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AUGUST 2014

SOURCES OF HUMAN-RELATED INJURY AND MORTALITY FOR U.S. PACIFIC WEST COAST MARINE MAMMAL STOCK ASSESSMENTS: 2008-2012

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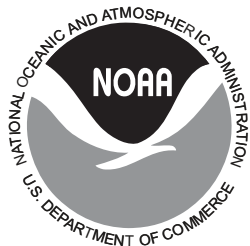
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National Oceanic and Atmospheric Administration
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U.S. DEPARTMENT OF COMMERCE

Penny S. Pritzker, Secretary of Commerce

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National Marine Fisheries Service

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Sources of human-related injury and mortality for U.S. Pacific west coast marine mammal stock assessments, 2008-2012.

James V. Carretta¹, Sarah M. Wilkin², Marcia M. Muto³, Kristin Wilkinson⁴, and Jeremy Rusin¹

Summary

The Marine Mammal Protection Act (MMPA) requires the National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS), to document human-caused mortality, non-serious injury (NSI), and serious injury (SI) of marine mammals as part of assessing marine mammal stocks and to evaluate human-caused injury and mortality levels in the context of potential biological removal (PBR) levels calculated 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 reliable data on injury severity and animal condition, often in challenging environments where thorough examination of injuries is not possible. NMFS updated its SI designation and reporting process, which uses guidance from previous SI workshops (Angliss and DeMaster 1998, Andersen et al. 2008), expert opinion, and analysis of historic injury cases to develop new criteria for distinguishing SI from NSI (NMFS 2012a, 2012b; NOAA 2012; Moore et al. 2013).

This report contains updated records of human-caused injury and mortality to pinnipeds and cetaceans from 2008 to 2012, for marine mammal populations that occur in U.S. west coast waters and which are evaluated in Pacific region marine mammal stock assessment reports (SARs) (Carretta et al. 2013a, 2013b). Mortality records, while included in this report, were not evaluated for SI/NSI status. 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 records, including cases from 2007 reported in Carretta et al. (2013a), are archived online together with 2008-2012 records from the current report. These are available at swfsc.noaa.gov/Bycatch.aspx.

Sources of injury data include strandings, disentanglement networks, and fishery observer programs. Stranding network data includes records of injured marine mammals at sea and ashore reported by the public, as well as researchers. 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 power plant water intake entrainment*. This report covers the 5-year period from 2008 to 2012, which includes injury and mortality data used in preparation of Pacific marine mammal stock assessments. Most records originate from stranding networks in California, Oregon, and Washington, though a few Alaska records of Eastern North Pacific gray whales (*Eschrichtius robustus*) are included, because this population is assessed in the Pacific region SARs and occurs along the U.S. west coast. 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 and are not included in this report (Allen and Angliss 2013). Injury determinations for Pacific region species/stocks in the central Pacific from Hawaii westward are also included in separate reports.

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Methods

The assessment of marine mammals for signs of human interaction, whether alive or dead, 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 the causes of death and injury in marine mammals, which often involve examination of carcasses in challenging environments that makes thorough examination difficult or impossible. With respect to the uncertainties in determining whether injuries or deaths are human-related, we reviewed stranding records, including at-sea sightings, from NMFS Southwest, Northwest, and Alaska regional stranding networks. Those records with human-related causes of injury were evaluated using the new SI criteria. Animals whose initial reporting condition was ‘dead’ were not evaluated for SI and their records are included in NMFS stranding databases, bycatch reports (Carretta and Enriquez 2009a, 2009b, 2010, 2012a, 2012b; Jannot et al. 2011; Breiwick 2013), human-caused mortality sections of SARs, and 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 include 846 records for the period from 2008 to 2012. 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 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. Special cases involve injured pinnipeds transferred to public display facilities (aquaria) or U.S. Navy marine mammal programs following treatment, because their survival in the wild is questionable. In these cases, 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, injured 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 and the primary cause of death (i.e., gunshot or gillnet entanglement) is unknown, we have reported a combined cause in tabular and descriptive summaries.

Prorating of serious injuries (large whales only)

Large whales may provide the opportunity to track outcomes of human-caused injuries, due to the ability to recognize and resight 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 is known, based on a review of historical large whale injury cases (NMFS 2012b). For example, 25 large whale cases with vessel-strike lacerations 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 where sufficient detail is available on the severity of the vessel-strike laceration, other SI codes are applied. If a 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 an SI prorated 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

A total of 1,501 human-related injury and mortality records are summarized by anthropogenic source in Table 1 and Appendix 4. Approximately 80% of all records represent opportunistic reports of animals stranded on beaches or at-sea sightings. Only 273 records were derived from systematic observations, either fishery observer programs (n=136), monitored research-related activities (n=83), or removals of pinnipeds from the Bonneville Dam area under MMPA Section 120 (n=54). Approximately 60% of all records involved animals initially found dead (Table 2). Pinnipeds (n=1,211) were most commonly injured or killed by human-related activities, followed by large whales (n=117) and small cetaceans (n=173) (Tables 3-5). The primary cause of documented serious injury or mortality for pinnipeds was hook and line fishery interactions (Table 6). Large whale serious injury and mortality was most commonly linked to vessel strikes (Table 6). Serious injury and mortality of small cetaceans was documented most frequently in scientific research trawls (Table 6). Live animals accounted for 843 records, which were evaluated and assigned SI/NSI determinations, including 750 pinnipeds, 82 large whales, and 11 small cetaceans (Tables 7a-c).

The primary causes of pinniped injury and mortality were hook and line fishery interactions (n=297), shootings (n=212), and entrainment into power plant water intakes (n=142) (Tables 3 and 6, Appendix 4). Pinniped injury and mortality records included California sea lions (*Zalophus californianus*) (n=891), harbor seals (*Phoca vitulina*) (n=230), northern elephant seals (*Mirounga angustirostris*) (n=40), Guadalupe fur seals (*Arctocephalus townsendi*) (n=20), northern fur seals (*Callorhinus ursinus*) (n=17), and unidentified pinnipeds (n=13) (Table 2). Most pinniped injury cases involved human intervention and treatment, either in the field or through capture and subsequent care at a rehabilitation facility. Many pinnipeds (n=245) were successfully treated and released from rehabilitation facilities, and it is assumed that they survived following treatment. Therefore their final injury assessments were NSI. 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=81), while others were sent to public display facilities (n=17) because their existing post-treatment condition made survival in the wild unlikely or they were individuals targeted for removal to protect endangered salmon. Including the 81 euthanized pinnipeds, 290 died of their injuries and another 98 were released with serious injuries. Pinniped records lacking detail regarding whether the animal was released following rehabilitation facility care were determined to be seriously injured. Initial NSI determinations were made for 154 pinnipeds; of these, 19 (12%) later died (Table 7a), which reflects that some pinniped injuries are misclassified because the severity of injuries are not fully realized until post-mortem examination (see Discussion).

A total of 117 large whale injury and mortality records were reviewed (Tables 2 and 4). Of these, 35 were dead and the remaining 82 records were assessed for NSI/SI (Table 7b). Vessel strikes were the most common form of injury to gray, blue (*Balaenoptera musculus*), and

fin (*Balaenoptera physalus*) whales, while entanglement in pot/trap fisheries was the most common source of injury to humpback whales (*Megaptera novaeangliae*) (Table 6). Injured large whales included humpback whales (n=22), gray whales (n=31), unidentified whales (n=17), fin whales (n=4), minke whales (*Balaenoptera acutorostrata*) (n=2), sperm whales (*Physeter macrocephalus*) (n=1), and blue whales (n=1) (Table 2), with vessel strikes and entanglement-related injuries as the most common causes of SI and mortality (Table 6). Of 82 large whales evaluated for NSI/SI, 65 cases were fishery-related entanglements, 15 cases involved vessel strikes, and 2 cases involved entanglement in marine debris. Only a small fraction of the large whale injury cases (n=17) involved human intervention to remove gear. This reflects that many entangled whales are seen only once or that weather conditions prevent safe disentanglement attempts. Four large whale records that were initially designated as SI resulted in a final injury status of NSI, as a result of successful disentanglement efforts or the animal becoming free of gear over time. Thirty-seven other large whale records with initial SI designations retained final injury designations of SI and three whales were later found dead (Table 7b). One gray whale initially seen in July 2009 with constricting gillnet and rope cutting into its caudal peduncle was assigned an SI status and was resighted in 2010 and 2011, still entangled. This whale was resighted in 2013, free of gear and in apparent good health, thus the final injury determination for this case was non-serious.

Small cetaceans were rarely assessed for SI (n=11) because most were initially reported as dead (n=162). Mortality in gillnets and unidentified net fisheries accounted for approximately half of the small cetacean records (n=82), with about half of all entanglement records derived from fishery observer programs (n=38). Research-related entanglements in scientific trawls or nets accounted for 46 small cetacean records. Small cetaceans assessed for injury severity included Pacific white-sided dolphins (*Lagenorhynchus obliquidens*) (n=6), bottlenose dolphins (*Tursiops truncatus*) (n=2), harbor porpoise (*Phocoena phocoena*) (n=2) and long-beaked common dolphin (*Delphinus capensis*) (n=1). (Table 2). Entanglement-related injuries were responsible for all small cetacean injuries, with research-related activities accounting for all the Pacific white-sided dolphin injuries. Human intervention resulted in one Pacific white-sided dolphin being freed from survey equipment without serious injuries, and one harbor porpoise was released from a research net without serious injuries. Of the 11 small cetacean records assessed for injuries, 2 animals died, 2 were considered non-serious injuries, and the remaining 7 records were determined to be serious injuries (Table 7c). Four deaths of long-beaked common dolphins were documented in 2011, as a result of exposure to underwater detonation exercises (Danil and St. Leger 2011).

Discussion

Most records of human-related marine mammal injuries and deaths represent opportunistic reports obtained through stranding networks and at-sea sightings. Stranding network data should be considered as a minimum measure of human-related injury and mortality because not all carcasses come ashore or are detected. Where evaluated, estimates of detection rates of cetacean carcasses are consistently quite low across different regions and species (<1% to 17%), highlighting that observed numbers are not representative of true impacts (Kraus et al. 2005, Perrin et al. 2011, Williams et al. 2011, Prado et al. 2013). Not all human-related impacts are considered here, 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 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 choose only records that have

unequivocal or probable human-related causes and recognize that some cases may be missed because of a failure to recognize human-caused injuries and deaths.

Many serious injuries and deaths attributed to marine debris involve derelict fishing gear that cannot be associated with a specific fishery, or in some cases, gear originates from outside of U.S. waters (three northern fur seals were found dead in netting of Chinese origin in 2009). Impacts of commercial fisheries that utilize nets, pots, and traps are likely greater than the number of observations because derelict gear can entangle animals for long periods. Explicit examples include ghost netting that contained harbor seal carcasses of varying states of decomposition, demonstrating that the net had entangled animals over a long period of time.

A small percentage of pinnipeds (12%) 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 embedded bullets found post-mortem or hooks in the esophagus/stomach, which were not suspected during initial examination of the animal.

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Table 1. Number and percentages of documented cases of human-related injury or mortality by source, 2008-2012.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	PERCENT OF TOTAL
HOOK & LINE FISHERY	300	20
SHOOTING	212	14
POWER PLANT ENTRAINMENT	142	9.5
GILLNET FISHERY	139	9.3
MARINE DEBRIS ENTANGLEMENT	90	6
VESSEL STRIKE	77	5.1
CA SWORDFISH DRIFT GILLNET FISHERY	76	5.1
SCIENTIFIC RESEARCH TRAWL	65	4.3
UNIDENTIFIED FISHERY INTERACTION	54	3.6
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	53	3.5
AUTHORIZED REMOVAL	51	3.4
UNIDENTIFIED NET FISHERY ENTANGLEMENT	29	1.9
UNIDENTIFIED NET FISHERY	21	1.4
NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	16	1.1
MARINE DEBRIS INGESTION	14	0.93
CRAB POT FISHERY ENTANGLEMENT	13	0.87
GILLNET FISHERY, TRIBAL	12	0.8
HARASSMENT	10	0.67
RESEARCH ENTANGLEMENT	9	0.6
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	9	0.6
HUMAN-INDUCED ABANDONMENT	8	0.53
DOG ATTACK	7	0.47
UNKNOWN FISHERY INTERACTION	7	0.47
GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT	5	0.33
STAB WOUNDS	5	0.33
BLUNT FORCE TRAUMA	4	0.27
CAR COLLISION	4	0.27
DUNGENESS CRAB POT FISHERY ENTANGLEMENT	4	0.27
RESEARCH SCIENTIFIC LONGLINE	4	0.27
UNDERWATER DETONATION EXERCISES	4	0.27
LOBSTER TRAP ENTANGLEMENT	3	0.2
TRAWL FISHERY (UNKNOWN)	3	0.2
UNAUTHORIZED REMOVAL	3	0.2
BAIT BARGE NET ENTANGLEMENT	2	0.13
COD POT FISHERY ENTANGLEMENT	2	0.13
GAFF INJURY	2	0.13
HOOK & LINE FISHERY/MARINE DEBRIS INGESTION	2	0.13
NON-FISHERY ENTANGLEMENT	2	0.13
NORTHERN WASHINGTON MARINE DRIFT GILLNET FISHERY, TRIBAL	2	0.13
ROPE	2	0.13
SALMON GILLNET FISHERY	2	0.13
SHOOTING/HOOK & LINE FISHERY	2	0.13
TAR	2	0.13
WEST COAST GROUND FISH NEARSHORE FIXED GEAR FISHERY	2	0.13
WEST COAST GROUND FISH TRAWL (PACIFIC HAKE AT-SEA PROCESSING COMPONENT) FISHERY	2	0.13
BLUNT FORCE TRAUMA: CLUBBING	1	0.067
CA/OR/WA SABLEFISH POT FISHERY	1	0.067
CRAB POT FISHERY	1	0.067
FIXED GEAR SABLEFISH FISHERY OBSERVER REPORT	1	0.067
HARPOON	1	0.067
KNIFE WOUNDS	1	0.067
MARINE DEBRIS	1	0.067
NORTHERN WASHINGTON OCEAN TROLL FISHERY, TRIBAL	1	0.067
OIL SPILL	1	0.067
PACIFIC WHITING TRAWL FISHERY	1	0.067
PUBLIC RESCUE	1	0.067
RESEARCH	1	0.067
RESEARCH ENTRAPMENT SALMON/STURGEON SCIENTIFIC TRAP	1	0.067
RESEARCH LONGLINE HOOKING	1	0.067
RESEARCH: SEA BOTTOM SURVEY EQUIPMENT	1	0.067
SALMON RESEARCH TRAWL	1	0.067
SEAL BOMB	1	0.067
SHOOTING / GILLNET FISHERY	1	0.067
SHOOTING/SPEARING	1	0.067
SPRAY PAINTING	1	0.067
UNIDENTIFIED FISHERY INTERACTION / MARINE DEBRIS ENTANGLEMENT	1	0.067
UNIDENTIFIED NET FISHERY ENTANGLEMENT/VESSEL STRIKE	1	0.067
UNIDENTIFIED NET FISHERY/SHOOTING	1	0.067
VEHICLE COLLISION	1	0.067

Table 2. Total number of human-related marine mammal injury and mortality records (n=1,501) by species and assessment category from 2008 to 2012. NSI=non-serious injury, SI=serious injury. Records represent final injury determinations.

	CAPTIVITY	DEAD	NSI	SI	SI (PRORATE)
BLUE WHALE	0	4	0	0	1
BOTTLENOSE DOLPHIN	0	4	0	2	0
BRYDE'S WHALE	0	1	0	0	0
CALIFORNIA SEA LION	17	533	277	64	0
FIN WHALE	0	9	0	3	1
GRAY WHALE	0	14	5	14	12
GUADALUPE FUR SEAL	0	12	5	3	0
HARBOR PORPOISE	0	40	1	0	0
HARBOR SEAL	0	170	46	14	0
HUMPBACK WHALE	0	6	1	7	14
LONG-BEAKED COMMON DOLPHIN	0	42	0	0	0
MINKE WHALE	0	0	1	0	1
NORTHERN ELEPHANT SEAL	0	19	13	8	0
NORTHERN FUR SEAL	0	13	4	0	0
NORTHERN RIGHT WHALE DOLPHIN	0	10	0	0	0
PACIFIC WHITE-SIDED DOLPHIN	0	39	1	5	0
RISSO'S DOLPHIN	0	3	0	0	0
SHORT-BEAKED COMMON DOLPHIN	0	20	0	0	0
SPERM WHALE	0	5	0	1	0
STRIPED DOLPHIN	0	1	0	0	0
UNIDENTIFIED COMMON DOLPHIN	0	4	0	0	0
UNIDENTIFIED PINNIPED	0	4	0	9	0
UNIDENTIFIED PORPOISE	0	1	0	0	0
UNIDENTIFIED WHALE	0	0	0	11	6

Table 3. Sources of human-caused injury or mortality for pinnipeds from 2008 to 2012.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
HOOK & LINE FISHERY	297	25
SHOOTING	212	42
POWER PLANT ENTRAINMENT	142	54
GILLNET FISHERY	107	63
MARINE DEBRIS ENTANGLEMENT	82	69
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	52	74
AUTHORIZED REMOVAL	51	78
CA SWORDFISH DRIFT GILLNET FISHERY	36	81
VESSEL STRIKE	35	84
SCIENTIFIC RESEARCH TRAWL	22	86
UNIDENTIFIED NET FISHERY ENTANGLEMENT	17	87
NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	14	88
UNIDENTIFIED FISHERY INTERACTION	13	89
GILLNET FISHERY, TRIBAL	11	90
MARINE DEBRIS INGESTION	11	91
HARASSMENT	10	92
UNIDENTIFIED NET FISHERY	10	93
HUMAN-INDUCED ABANDONMENT	8	93
DOG ATTACK	7	94
RESEARCH ENTANGLEMENT	7	94
GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT	5	95
STAB WOUNDS	5	95
BLUNT FORCE TRAUMA	4	96
CAR COLLISION	4	96
RESEARCH SCIENTIFIC LONGLINE	4	96
TRAWL FISHERY (UNKNOWN)	3	97
UNAUTHORIZED REMOVAL	3	97
BAIT BARGE NET ENTANGLEMENT	2	97
GAFF INJURY	2	97
HOOK & LINE FISHERY/MARINE DEBRIS INGESTION	2	97
ROPE	2	97
SHOOTING/HOOK & LINE FISHERY	2	98
TAR	2	98
WEST COAST GROUND FISH NEARSHORE FIXED GEAR FISHERY	2	98
WEST COAST GROUND FISH TRAWL (PACIFIC HAKE AT-SEA PROCESSING COMPONENT) FISHERY	2	98
BLUNT FORCE TRAUMA: CLUBBING	1	98
CA/ORWA SABLEFISH POT FISHERY	1	98
CRAB POT FISHERY	1	98
LOBSTER TRAP ENTANGLEMENT	1	98
MARINE DEBRIS	1	99
NON-FISHERY ENTANGLEMENT	1	99
NORTHERN WASHINGTON MARINE DRIFT GILLNET FISHERY, TRIBAL	1	99
NORTHERN WASHINGTON OCEAN TROLL FISHERY, TRIBAL	1	99
OIL SPILL	1	99
PACIFIC WHITING TRAWL FISHERY	1	99
PUBLIC RESCUE	1	99
RESEARCH	1	99
RESEARCH ENTRAPMENT SALMON/STURGEON SCIENTIFIC TRAP	1	99
RESEARCH LONGLINE HOOKING	1	99
SALMON GILLNET FISHERY	1	99
SALMON RESEARCH TRAWL	1	99
SEAL BOMB	1	100
SHOOTING / GILLNET FISHERY	1	100
SHOOTING/SPEARING	1	100
SPRAY PAINTING	1	100
UNIDENTIFIED FISHERY INTERACTION / MARINE DEBRIS ENTANGLEMENT	1	100
UNIDENTIFIED NET FISHERY/SHOOTING	1	100
VEHICLE COLLISION	1	100

Table 4. Sources of human-caused injury and mortality for large whales from 2008 to 2012.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
VESSEL STRIKE	39	33
UNIDENTIFIED FISHERY INTERACTION	21	51
CRAB POT FISHERY ENTANGLEMENT	12	62
GILLNET FISHERY	9	69
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	9	77
UNIDENTIFIED NET FISHERY ENTANGLEMENT	5	81
CA SWORDFISH DRIFT GILLNET FISHERY	4	85
DUNGENESS CRAB POT FISHERY ENTANGLEMENT	4	88
MARINE DEBRIS ENTANGLEMENT	3	91
UNKNOWN FISHERY INTERACTION	3	93
COD POT FISHERY ENTANGLEMENT	2	95
MARINE DEBRIS INGESTION	2	97
GILLNET FISHERY, TRIBAL	1	97
HARPOON	1	98
LOBSTER TRAP ENTANGLEMENT	1	99
UNIDENTIFIED NET FISHERY ENTANGLEMENT/VESSEL STRIKE	1	100

Table 5. Sources of human-caused injury and mortality for small cetaceans from 2008 to 2012.

SOURCE OF HUMAN-CAUSED INJURY/MORTALITY	NUMBER OF RECORDS	CUMULATIVE PERCENT OF TOTAL
SCIENTIFIC RESEARCH TRAWL	43	25
CA SWORDFISH DRIFT GILLNET FISHERY	36	46
GILLNET FISHERY	23	59
UNIDENTIFIED FISHERY INTERACTION	20	71
UNIDENTIFIED NET FISHERY	11	77
UNIDENTIFIED NET FISHERY ENTANGLEMENT	7	81
MARINE DEBRIS ENTANGLEMENT	5	84
UNDERWATER DETONATION EXERCISES	4	86
UNKNOWN FISHERY INTERACTION	4	88
HOOK & LINE FISHERY	3	90
VESSEL STRIKE	3	92
NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	2	93
RESEARCH ENTANGLEMENT	2	94
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	1	95
CRAB POT FISHERY ENTANGLEMENT	1	95
FIXED GEAR SABLEFISH FISHERY OBSERVER REPORT	1	96
KNIFE WOUNDS	1	97
LOBSTER TRAP ENTANGLEMENT	1	97
MARINE DEBRIS INGESTION	1	98
NON-FISHERY ENTANGLEMENT	1	98
NORTHERN WASHINGTON MARINE DRIFT GILLNET FISHERY, TRIBAL	1	99
RESEARCH: SEA BOTTOM SURVEY EQUIPMENT	1	99
SALMON GILLNET FISHERY	1	100

Table 6. Primary cause of injury or mortality by species/group from 2008 to 2012.

SPECIES	SOURCE OF INJURY/MORTALITY	NUMBER OF RECORDS
ALL PINNIPEDS	HOOK & LINE FISHERY	297
ALL SMALL CETACEANS	SCIENTIFIC RESEARCH TRAWL	43
ALL LARGE WHALES	VESSEL STRIKE	39
BLUE WHALE	VESSEL STRIKE	5
BOTTLENOSE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	1
BRYDE'S WHALE	VESSEL STRIKE	1
CALIFORNIA SEA LION	HOOK & LINE FISHERY	263
FIN WHALE	VESSEL STRIKE	10
GRAY WHALE	VESSEL STRIKE	13
GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	9
HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	12
HARBOR SEAL	POWER PLANT ENTRAINMENT	62
HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	9
LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	13
MINKE WHALE	CA SWORDFISH DRIFT GILLNET FISHERY	1
NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	13
NORTHERN FUR SEAL	MARINE DEBRIS ENTANGLEMENT	4
NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	6
PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	37
RISSE'S DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	2
SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	19
SPERM WHALE	CA SWORDFISH DRIFT GILLNET FISHERY	2
STRIPED DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	1
UNIDENTIFIED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	2
UNIDENTIFIED PINNIPED	MARINE DEBRIS ENTANGLEMENT	3
UNIDENTIFIED PORPOISE	CRAB POT FISHERY ENTANGLEMENT	1
UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	7

Table 7a. Matrix of initial and final injury determinations for all pinniped records (n=1,211). NSI=non-serious injury, SI=serious injury. Records with initial determinations of ‘ALIVE’ include individual California sea lions targeted for removal to protect endangered salmon under authority of the MMPA under Section 120.

Pinnipeds		Final Injury Determination / Status			
Initial Determination		CAPTIVITY	DEAD	NSI	SI
ALIVE		11	39	0	0
DEAD		0	461	0	0
NSI		1	19	133	1
SI		5	232	212	97

Table 7b. Matrix of initial and final injury determinations for all large whale records (n=117). NSI=non-serious injury, SI=serious injury.

Large Whales		Final Injury Determination / Status			
Initial Determination		DEAD	NSI	SI	SI (PRORATE)
DEAD		35	0	0	0
NSI		0	3	0	0
SI		3	4	34	3
SI (PRORATE)		1	0	2	32

Table 7c. Matrix of initial and final injury determinations for all small cetacean records (n=173). NSI=non-serious injury, SI=serious injury.

Small Cetaceans		Final Injury Determination / Status		
Initial Determination		DEAD	NSI	SI
DEAD		162	0	0
NSI		0	2	0
SI		2	0	7

TABLE 3: 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 on 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).

TABLE 1: Summary of Large Cetacean¹ Injury Categories and Criteria

<p>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.</p>			
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 $\geq 65'$ 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.

TABLE 2: 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 severity⁶ 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, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	10	12	10/12/2009	BLUE WHALE	VESSEL STRIKE	MONTEREY	CA	DEAD	DEAD STRANDING; FRACTURED VERTEBRAL BODIES, DORSAL & TRANSVERSE PROCESSES, & END PLATES; VERTEBRAE FRACTURED CAUDAL TO RIBS, NO FRACTURED RIBS; SUBCUTANEOUS TISSUE & MUSCLE HEMORRHAGING IN AREA OF VERTEBRAL TRAUMA; CARCASS EXAMINED BY LONG MARINE LABORATORY, MOSS LANDING MARINE LABORATORIES, THE MARINE MAMMAL CENTER & OTHERS	DEAD	NA	NA
2009	10	19	10/19/2009	BLUE WHALE	VESSEL STRIKE	MENDOCINO	CA	DEAD	HYDROGRAPHIC SURVEY VESSEL COLLIDED WITH FREE-SWIMMING ANIMAL; MORTALITY; CARCASS WASHED ASHORE SOUTH OF MENDOCINO COAST BOTANICAL GARDENS ON 20-OCT; TWO DEEP DIAGONAL PROPELLER-LIKE CUTS ACROSS BACK & EXTENDING INTO VERTEBRAE & INTERVERTEBRAL DISKS; TWO FRACTURED POSTERIOR VERTEBRAE; CARCASS EXAMINED BY HSU-VM PERSONNEL	DEAD	NA	NA
2010	8	4	8/4/2010	BLUE WHALE	VESSEL STRIKE	MONTEREY	CA	SI (PRORATE)	REPORT FROM CAPTAIN OF STRIKING A WHALE. WHALEWATCH VESSEL COLLIDED WITH FREE-SWIMMING ANIMAL; REPORT IS OF ANIMAL STRUCK MID-BODY, DIVING FOLLOWING STRIKE, NO BLOOD OBSERVED IN WATER AND ANIMAL NOT RESIGHTED. VESSEL SIZE ASSUMED IN EXCESS OF 65 FT. AND SPEED UNKNOWN.	SI (PRORATE)	L7A	0.56
2010	8	25	8/25/2010	BLUE WHALE	VESSEL STRIKE	SANTA BARBARA	CA	DEAD	MULTIPLE FRAGMENTS OF VERTEBRAE AND RIBS IN ABDOMINAL CAVITY	DEAD	NA	NA
2010	10	2	10/2/2010	BLUE WHALE	VESSEL STRIKE	SAN MATEO	CA	DEAD	BROKEN BONES AND HEMORRHAGE CONSISTENT WITH VESSEL STRIKE	DEAD	NA	NA
2008	2	17	2/17/2008	BOTTLENOSE DOLPHIN	LOBSTER TRAP ENTANGLEMENT	SAN DIEGO	CA	SI	FREE-SWIMMING ANIMAL ENTANGLED IN LOBSTER TRAP LINE; LINE WRAPPED AROUND BEAK 3X, THROUGH MOUTH & AROUND PECTORAL FIN. ANIMAL SWAM AWAY AFTER BEING DISENTANGLED BY LIFE GUARDS. ASSIGNED AS SERIOUS INJURY DUE TO IT BEING A SOCIAL ANIMAL SEPARATED FROM ITS GROUP AND NATURE OF ENTANGLEMENT (ANIMAL IMMOBILIZED FOR UNKNOWN TIME PERIOD).	SI	S14, S7B	NA
2009	11	10	11/10/2009	BOTTLENOSE DOLPHIN	FIXED GEAR SABLEFISH FISHERY OBSERVER REPORT	OFFSHORE	WA	SI	OBSERVER REPORTED BUOY LINE WRAPPED AROUND ANIMAL'S CAUDAL PEDUNCLE AND FLUKES. ANIMAL FREED AND SWAM AWAY BUT OBSERVER NOTED THAT LINE RESULTED IN SEVERAL WOUNDS TO ANIMAL.	SI	S7B, S14	NA
2010	11	13	11/13/2010	BOTTLENOSE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	12	19	12/19/2010	BOTTLENOSE DOLPHIN	MARINE DEBRIS ENTANGLEMENT	SAN DIEGO	CA	DEAD	ADVANCED STATE OF DECOMPOSITION. DEEP, WIDE LACERATIONS THAT WERE EVENLY SPACED ALONG PEDUNCLE IN COMBINATION WITH WIDE IMPRESSION ON PECTORAL IS SUGGESTIVE OF ENTANGLEMENT IN THICK LINE/ROPE. IDENTIFIED AS COASTAL STOCK ANIMAL VIA GENETICS.	DEAD	NA	NA
2012	2	22	2/22/2012	BOTTLENOSE DOLPHIN	NON-FISHERY ENTANGLEMENT RESEARCH	SAN DIEGO	CA	DEAD	DOLPHIN WAS FOUND FLOATING UNDER U.S. NAVY MARINE MAMMAL PROGRAM'S DOLPHIN PEN DOCK, OUTSIDE OF THEIR DOLPHIN ENCLOSURES. IT IS THOUGHT THAT THE ANIMAL MAY HAVE BECOME ENTRAPPED, EITHER INITIALLY ENTANGLED OR COULD NOT FIND ITS WAY OUT OF NET CURTAIN. IDENTIFIED AS COASTAL STOCK ANIMAL VIA GENETICS.	DEAD	NA	NA
2012	10	16	10/16/2012	BOTTLENOSE DOLPHIN	ENTANGLEMENT	SAN DIEGO	CA	DEAD	ANIMAL CAUGHT IN SEA OTTER RESEARCH NET	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	11	25	11/25/2010	BRYDE'S WHALE	VESSEL STRIKE	MASON	WA	SI	SIGHTED ALIVE ON 11/25/10. ANIMAL INJURED AND NOT SURFACING NORMALLY. EXTERNAL EVIDENCE OF PROPELLER MARKS. WASHED UP DEAD ON 12/4/10 AND TOWED FOR NECROPSY ON 12/6/10. DETERMINED TO BE ONE OR MORE VESSEL STRIKES.	DEAD	L11	NA
2008	1	3	1/3/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO MID DORSUM; MORTALITY (ANIMAL DIED IN REHAB, SINGLE BULLET EXTRACTED FROM SUBCUTANEOUS TISSUE IN THORAX DURING NECROPSY)	DEAD	P9	NA
2008	1	16	1/16/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY/MARINE DEBRIS INGESTION	SAN JOAQUIN	CA	SI	LIVE STRANDING; FISH HOOK IN STOMACH; ANIMAL REGURGITATED PLASTIC BAG & FOAM SPONGE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P2	NA
2008	1	16	1/16/2008	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO MID DORSUM; MORTALITY (ANIMAL DIED IN REHAB, SINGLE BULLET EXTRACTED DORSAL TO THORACOLUMBAR VERTEBRAE DURING NECROPSY)	DEAD	P9	NA
2008	1	20	1/20/2008	CALIFORNIA SEA LION	BAIT BARGE NET ENTANGLEMENT	LOS ANGELES	CA	NSI	ANIMAL ENTANGLED IN PROTECTIVE NETTING ON BAIT BARGE; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2008	1	28	1/28/2008	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SANTA BARBARA	CA	SI	LIVE STRANDING; INNER TUBE BAND CUTTING INTO SHOULDER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	2	7	2/7/2008	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	3	16	3/16/2008	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO CHEST NEAR LEFT FRONT FLIPPER; RADIOGRAPHS REVEALED TWO BULLETS; ONE BULLET FRAGMENTED INTO FOUR PIECES (ONE SMALL FRAGMENT ABOVE LEFT HUMERUS, TWO SMALL FRAGMENTS ON LEFT SIDE OF CERVICAL VERTEBRAE, ONE LARGE FRAGMENT TO RIGHT OF CERVICAL VERTEBRAE); SECOND INTACT BULLET LOCATED TO LEFT OF CAUDAL THORACIC VERTEBRAE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, INTACT BULLET EXTRACTED & ANIMAL RELEASED AFTER 30 DAYS OF REHAB)	NSI	P9	NA
2008	3	28	3/28/2008	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	3	29	3/29/2008	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SANTA BARBARA	CA	SI	LIVE STRANDING; PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	4	2	4/2/2008	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LOWER BACK; MORTALITY (ANIMAL TAKEN INTO REHAB & EUTHANIZED DUE TO CHRONIC DOMOIC ACID TOXICITY; RADIOGRAPHS REVEALED BULLET DORSAL TO SPINE)	DEAD	P9	NA
2008	4	4	4/4/2008	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	4	7	4/7/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	LIVE STRANDING; ANIMAL WRAPPED IN FISHING LINE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P7B	NA
2008	4	10	4/10/2008	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LOWER NECK; MORTALITY (ANIMAL TAKEN INTO REHAB, DIED DURING SURGERY; SINGLE BULLET TO LEFT OF CERVICAL VERTEBRAE EXTRACTED DURING NECROPSY)	DEAD	P9	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	4	12	4/12/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN RIGHT FRONT FLIPPER, IN RIGHT HIP AREA & ON ABDOMEN; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	4	14	4/14/2008	CALIFORNIA SEA LION	RESEARCH ENTRAPMENT SALMON/STURGE ON SCIENTIFIC TRAP	YOLO	CA	DEAD	CARCASS RETRIEVED FROM CDFG FYKE TRAP	DEAD	NA	NA
2008	4	16	4/16/2008	CALIFORNIA SEA LION	SHOOTING	SUTTER	CA	DEAD	CARCASS; GUNSHOT WOUND TO BACK; FIELD NECROPSY REVEALED EXTENSIVE BLUBBER BRUISING (RED SHOT SPOTS, POSSIBLE BIRD SHOT FROM 12 GAUGE SHOTGUN)	DEAD	NA	NA
2008	4	17	4/17/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	4	18	4/18/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	4	20	4/20/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	4	24	4/24/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SEA WORLD.	CAPTIVITY	NA	NA
2008	4	24	4/24/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SEA WORLD.	CAPTIVITY	NA	NA
2008	4	24	4/24/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SEA WORLD.	CAPTIVITY	NA	NA
2008	4	28	4/28/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SEA WORLD.	CAPTIVITY	NA	NA
2008	4	28	4/28/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SEA WORLD.	CAPTIVITY	NA	NA
2008	4	28	4/28/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL DIED UNDER ANESTHESIA PRIOR TO TRANSFER TO CAPTIVE FACILITY.	DEAD	NA	NA
2008	4	25	4/25/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT SIDE OF FACE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	4	26	4/26/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN RIGHT REAR FLIPPER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	4	26	4/26/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO ABDOMEN; MORTALITY (DIED DURING TRANSPORT TO REHAB; 4 BULLETS EXTRACTED FROM ABDOMINAL FLUID, 1 BULLET EXTRACTED FROM LEFT KIDNEY, DURING NECROPSY; CAUSE OF DEATH = PERITONITIS DUE TO PERFORATING LESIONS CAUSED BY GUNSHOT)	DEAD	P12	NA
2008	4	27	4/27/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	5	4	5/4/2008	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	DEAD	ANIMAL DIED ON THE TRAP USED TO REMOVE CA SEA LIONS PREYING ON ENDANGERED SALMON	DEAD	NA	NA
2008	5	4	5/4/2008	CALIFORNIA SEA LION	UNAUTHORIZED REMOVAL	COLUMBIA RIVER	WA	DEAD	ANIMAL DIED ON THE TRAP USED TO REMOVE CA SEA LIONS PREYING ON ENDANGERED SALMON. ANIMAL WAS NOT AN INDIVIDUAL PREVIOUSLY IDENTIFIED AS PREYING ON ENDANGERED SALMON.	DEAD	NA	NA
2008	5	4	5/4/2008	CALIFORNIA SEA LION	UNAUTHORIZED REMOVAL	COLUMBIA RIVER	WA	DEAD	ANIMAL DIED ON THE TRAP USED TO REMOVE CA SEA LIONS PREYING ON ENDANGERED SALMON. ANIMAL WAS NOT AN INDIVIDUAL PREVIOUSLY IDENTIFIED AS PREYING ON ENDANGERED SALMON.	DEAD	NA	NA
2008	5	4	5/4/2008	CALIFORNIA SEA LION	UNAUTHORIZED REMOVAL	COLUMBIA RIVER	WA	DEAD	ANIMAL DIED ON THE TRAP USED TO REMOVE CA SEA LIONS PREYING ON ENDANGERED SALMON. ANIMAL WAS NOT AN INDIVIDUAL PREVIOUSLY IDENTIFIED AS PREYING ON ENDANGERED SALMON.	DEAD	NA	NA
2008	5	9	5/9/2008	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET-LIKE WOUND TO NECK AREA; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P1	NA
2008	5	10	5/10/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; FISH HOOKS IN LEFT EYE & MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	5	11	5/11/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; 6 FISH HOOKS WITH ATTACHED LINE IN BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	5	14	5/14/2008	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	5	14	5/14/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	DEAD	CARCASS; GUNSHOT WOUND TO BACK OF HEAD; RADIOGRAPHS REVEALED 3 SHOTGUN PELLETS IN SKULL	DEAD	NA	NA
2008	5	16	5/16/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	5	17	5/17/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; NUMEROUS FISH HOOKS IN HIP AREA & OTHER PARTS OF BODY; MORTALITY (DIED IN REHAB, CAUSE OF DEATH = UNKNOWN)	DEAD	P5C	NA
2008	5	18	5/18/2008	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	5	21	5/21/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; MORTALITY (EUTHANIZED IN REHAB DUE TO UROGENITAL CARCINOMA)	DEAD	P5A	NA
2008	5	23	5/23/2008	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	5	24	5/24/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE EMBEDDED IN ESOPHAGUS AT LEVEL OF LUNGS; MORTALITY (EUTHANIZED IN REHAB DUE TO PERFORATION OF ESOPHAGUS BY FISH HOOK RESULTING IN SEVERE PYOTHORAX & PROBABLE SEPTICEMIA)	DEAD	P2	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	5	28	5/28/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; FISHING LINES WRAPPED AROUND MOUTH & FLIPPERS; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = SEVERE BRONCHIOINTERSTITIAL PNEUMONIA)	DEAD	P6	NA
2008	5	28	5/28/2008	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (EUTHANIZED IN REHAB DUE TO BLINDNESS, NECROPSY REVEALED SMALL BITS OF GREEN PLASTIC IN STOMACH)	DEAD	P9	NA
2008	5	30	5/30/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN THROAT; MORTALITY (DIED IN REHAB, CAUSE OF DEATH = PERFORATED ULCER & PERITONITIS; NECROPSY REVEALED MULTIPLE SINGLE & TREBLE HOOKS IN STOMACH)	DEAD	P2	NA
2008	6	1	6/1/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; MULTIPLE FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	6	2	6/2/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISHING LURE HANGING FROM MOUTH; MORTALITY (DIED IN REHAB, CAUSE OF DEATH = PYOTHORAX, PNEUMONIA, MYOSITIS)	DEAD	P2	NA
2008	6	3	6/3/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; 3 FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	6	6	6/6/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH, FISH HOOK WOUNDS ON RIGHT FOREFLIPPER; MORTALITY (DIED IN REHAB, CAUSE OF DEATH = CHRONIC-ACTIVE BILATERAL PNEUMONIA)	DEAD	P5A	NA
2008	6	8	6/8/2008	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL CAPTURED, DISENTANGLED, & RELEASED ON SITE)	NSI	P7B	NA
2008	6	9	6/9/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; MULTIPLE FISH HOOKS IN BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	6	11	6/11/2008	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	SAN MATEO	CA	DEAD	CARCASS; FIELD NECROPSY REVEALED PLASTIC ITEMS BLOCKING INTESTINE	DEAD	NA	NA
2008	6	13	6/13/2008	CALIFORNIA SEA LION	SHOOTING	ORANGE	CA	DEAD	CARCASS; NECROPSY REVEALED GUNSHOT WOUND TO LEFT CERVICAL AREA WITH SECONDARY JUGULAR VEIN LACERATION & TERMINAL HEMORRHAGE	DEAD	NA	NA
2008	6	14	6/14/2008	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL CAPTURED, DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2008	6	14	6/14/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	LIVE STRANDING; FISH HOOKS IN RIGHT FRONT FLIPPER & BOTH REAR FLIPPERS; MORTALITY (DIED IN REHAB, CAUSE OF DEATH = ACUTE GASTRIC MUCOSAL NECROSIS)	DEAD	P5C	NA
2008	6	14	6/14/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOKS IN RIGHT REAR FLIPPER & LEFT LOWER LIP; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	6	14	6/14/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; FISH HOOKS IN THROAT & REAR FLIPPER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P2	NA
2008	6	14	6/14/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISHING LURE WITH ATTACHED LINE IN LEFT REAR FLIPPER; NON-FATAL INJURY (ANIMAL EVADED CAPTURE, LURE & LINE FELL OFF ANIMAL DURING CAPTURE ATTEMPT)	NSI	P5C	NA
2008	6	15	6/15/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	SI	LIVE ANIMAL RETRIEVED FROM NMFS RESEARCH VESSEL TRAWL & RELEASED; FINAL STATUS UNKNOWN	SI	P4	NA
2008	6	15	6/15/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	SI	LIVE ANIMAL RETRIEVED FROM NMFS RESEARCH VESSEL TRAWL & RELEASED; FINAL STATUS UNKNOWN	SI	P4	NA
2008	6	15	6/15/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	LIVE ANIMAL RETRIEVED FROM NMFS RESEARCH VESSEL TRAWL & RELEASED; FINAL STATUS UNKNOWN	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	6	17	6/17/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; MULTIPLE FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	6	20	6/20/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB, RADIOGRAPHS REVEALED SINGLE SHOTGUN PELLET IN SOFT TISSUE OF MUZZLE WITH NO SIGNIFICANT ASSOCIATED TRAUMA, CAUSE OF DEATH = SEVERE PNEUMONIA & PYOTHORAX OF UNKNOWN ETIOLOGY)	DEAD	P9	NA
2008	6	21	6/21/2008	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	6	21	6/21/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (DIED IN REHAB, NECROPSY REVEALED FISH HOOK & FISHING LINE IN STOMACH, CAUSE OF DEATH = SEPTICEMIA)	DEAD	P2	NA
2008	6	22	6/22/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	DEAD	CARCASS; FIELD NECROPSY REVEALED FISHING LURE ATTACHED TO STOMACH WALL	DEAD	NA	NA
2008	7	5	7/5/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	NSI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN BOTH FRONT FLIPPERS; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	7	7	7/7/2008	CALIFORNIA SEA LION	SHOOTING	SANTA CLARA	CA	NSI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO CHRONIC DOMOIC ACID TOXICITY, NECROPSY REVEALED SINGLE SHOTGUN PELLET IN NECK)	DEAD	P9	NA
2008	7	9	7/9/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	7	12	7/12/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISHING LINE PROTRUDING FROM MOUTH; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK LODGED IN PYLORUS; CAUSE OF DEATH = HOOK INGESTION WITH PERFORATION & SEPTIC PERITONITIS)	DEAD	P2	NA
2008	7	13	7/13/2008	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO MUZZLE; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO GUNSHOT WOUND)	DEAD	P9	NA
2008	7	15	7/15/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	DEAD	CARCASS; FISH HOOK IN RIGHT EYE; CAUSE OF DEATH = UNKNOWN	DEAD	P5B	NA
2008	7	19	7/19/2008	CALIFORNIA SEA LION	SHOOTING	SAN FRANCISCO	CA	NSI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO LEPTOSPIROSIS, NECROPSY REVEALED SEVERAL SHOTGUN PELLETS IN RIGHT SUB-CUTIS AREA WITHIN BLUBBER LAYER AT BASE OF NECK)	DEAD	P9	NA
2008	7	22	7/22/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK IN RIGHT CORNER OF MOUTH; NON-FATAL INJURY (ANIMAL CAPTURED, HOOK REMOVED & ANIMAL RELOCATED)	NSI	P5C	NA
2008	7	28	7/28/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	HUMBOLDT	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	7	29	7/29/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO TRAUMA TO RIGHT HIND FLIPPER, ORIGIN OF TRAUMA UNKNOWN)	DEAD	P5A	NA
2008	8	2	8/2/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = SHARK BITE, LEPTOSPIROSIS)	DEAD	P5A	NA
2008	8	4	8/4/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED SINGLE BULLET IN SUBCUTANEOUS TISSUE ON LEFT SIDE OF ABDOMEN; CAUSE OF DEATH = OCULAR TRAUMA OF UNKNOWN ORIGIN, BOTH EYES RUPTURED)	DEAD	P12	NA
2008	8	7	8/7/2008	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	DEAD	CARCASS; GUNSHOT WOUNDS TO NECK & BACK	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	8	9	8/9/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN RIGHT AXILLARY AREA; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = PNEUMONIA, GASTROINTESTINAL PARASITISM)	DEAD	P5C	NA
2008	8	12	8/12/2008	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	LIVE STRANDING; GILLNET-LIKE LACERATION AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P1	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	14	8/14/2008	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	15	8/15/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE & SINKER IN BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	8	21	8/21/2008	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; MORTALITY (NECROPSY REVEALED GUNSHOT PELLETS IN ORAL MUCOSA)	DEAD	P9	NA
2008	8	28	8/28/2008	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND HEAD & UPPER JAW; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	8	31	8/31/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	9	2	9/2/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN FLIPPER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	9	3	9/3/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN FRANCISCO	CA	SI	LIVE STRANDING; FISH HOOK IN RIGHT SIDE OF LOWER JAW; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO PNEUMONIA & OSTEOMYELITIS; NECROPSY REVEALED FISH HOOK IN STOMACH)	DEAD	P2	NA
2008	9	6	9/6/2008	CALIFORNIA SEA LION	RESEARCH SCIENTIFIC LONGLINE	VENTURA	CA	NSI	LIVE ANIMAL HOOKED THROUGH LIP DURING NMFS LONGLINE RESEARCH CRUISE; ANIMAL RELEASED ALIVE BY CUTTING LEADER APPROXIMATELY 1 FOOT ABOVE HOOK; FINAL STATUS OF ANIMAL UNKNOWN	NSI	P5B	NA
2008	9	12	9/12/2008	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO HEAD; MORTALITY (ANIMAL EUTHANIZED IN REHAB, RADIOGRAPHS INDICATED LEAD FRAGMENTS IN HEAD)	DEAD	P9	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	9	15	9/15/2008	CALIFORNIA SEA LION	RESEARCH SCIENTIFIC LONGLINE	ORANGE	CA	NSI	LIVE ANIMAL HOOKED THROUGH LIP DURING NMFS LONGLINE RESEARCH CRUISE; ANIMAL RELEASED ALIVE BY CUTTING LEADER APPROXIMATELY 1 FOOT ABOVE HOOK; FINAL STATUS OF ANIMAL UNKNOWN	NSI	P5B	NA
2008	9	16	9/16/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	DEAD	CARCASS; FISH HOOK IN FLIPPER	DEAD	P5D	NA
2008	9	16	9/16/2008	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO JAW; MORTALITY (ANIMAL EUTHANIZED IN REHAB, NECROPSY REVEALED BULLET FRAGMENTS IN RIGHT SIDE OF JAW)	DEAD	P9	NA
2008	9	21	9/21/2008	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	DEAD	CARCASS; GUNSHOT WOUND TO LEFT FLIPPER AXILLARY AREA; FIELD NECROPSY REVEALED TWO BROKEN RIBS, BULLET LODGED IN RIB ON RIGHT SIDE OF BODY	DEAD	NA	NA
2008	9	21	9/21/2008	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	DEAD	CARCASS; GUNSHOT WOUND TO SIDE; FIELD NECROPSY REVEALED RIB WITH HOLE IN IT	DEAD	NA	NA
2008	9	22	9/22/2008	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND CHEST & FLIPPERS; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	9	28	9/28/2008	CALIFORNIA SEA LION	SHOOTING	SONOMA	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO RIGHT EYE; MORTALITY (ANIMAL EUTHANIZED IN REHAB, RADIOGRAPHS SHOWED BULLET IN RIGHT EYE)	DEAD	P9	NA
2008	10	3	10/3/2008	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	10	6	10/6/2008	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	DEAD	CARCASS; SHOTGUN-LIKE WOUNDS TO NECK & BACK	DEAD	NA	NA
2008	10	7	10/7/2008	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED ON BEACH, SHOTGUN-LIKE WOUND TO BACK)	DEAD	P9	NA
2008	10	16	10/16/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	10	23	10/23/2008	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	10	25	10/25/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO BLINDNESS; NECROPSY REVEALED FISH HOOK WITH ATTACHED LINE EMBEDDED IN TISSUE BEHIND ESOPHAGUS)	DEAD	P2	NA
2008	10	26	10/26/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED SUBCUTANEOUS HEMORRHAGE & BRUISING IN TEMPORALIS MUSCLE ON RIGHT SIDE OF SKULL; CAUSE OF DEATH PROBABLY RELATED TO SKULL TRAUMA OF UNKNOWN ORIGIN)	DEAD	P5A	NA
2008	11	2	11/2/2008	CALIFORNIA SEA LION	SHOOTING	SAN FRANCISCO	CA	DEAD	CARCASS; SHOTGUN WOUND TO HEAD	DEAD	NA	NA
2008	11	5	11/5/2008	CALIFORNIA SEA LION	SHOOTING	ORANGE	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LEFT EYE; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO UROGENITAL CARCINOMA, BULLET EXTRACTED FROM EYE DURING NECROPSY)	DEAD	P9	NA
2008	11	6	11/6/2008	CALIFORNIA SEA LION	SHOOTING/HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; FISHING LINE WRAPPED AROUND NMFS TAG; GUNSHOT WOUNDS TO HEAD & NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P9	NA
2008	11	7	11/7/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	7	11/7/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	11	8	11/8/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	8	11/8/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	9	11/9/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO HEAD; MORTALITY (ANIMAL DIED IN REHAB, NECROPSY REVEALED BULLET IN RIGHT TEMPORALIS MUSCLE, SKULL FRAGMENT IN BRAIN)	DEAD	P9	NA
2008	11	11	11/11/2008	CALIFORNIA SEA LION	SHOOTING	LINCOLN	OR	DEAD	SHOTGUN PELLETS COLLECTED	DEAD	NA	NA
2008	11	23	11/23/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	23	11/23/2008	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED ON SITE & RELEASED)	NSI	P7B	NA
2008	11	23	11/23/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN REAR FLIPPER; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = INTERSTITIAL NEPHRITIS)	DEAD	P5D	NA
2008	11	25	11/25/2008	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	12	10	12/10/2008	CALIFORNIA SEA LION	STAB WOUNDS	SAN DIEGO	CA	SI	LIVE ANIMAL HAULED OUT ON DOCK WITH KNIFE BLADE PROTRUDING FROM BACK; NON-FATAL INJURY (RESCUE PERSONNEL IMMOBILIZED ANIMAL, REMOVED KNIFE BLADE & TREATED ANIMAL ON SITE)	SI	P9	NA
2008	12	13	12/13/2008	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB, RADIOGRAPHS REVEALED BULLET TRACT ACROSS CRANIUM)	DEAD	P9	NA
2008	12	19	12/19/2008	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO CHEST; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P12	NA
2008	12	19	12/19/2008	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED DURING TRANSPORT TO REHAB; COPPER-COVERED LARGE CALIBER BULLET FRAGMENT RETRIEVED FROM RIGHT MANDIBLE DURING NECROPSY)	DEAD	P9	NA
2008	12	23	12/23/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; FISH HOOK IN EYELID; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	12	27	12/27/2008	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2008	12	31	12/31/2008	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LOWER LIP; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = VERMINOUS PNEUMONIA)	DEAD	P5C	NA
2009	1	2	1/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH LINE ATTACHED IN MOUTH, SOME BLOOD INSIDE MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	1	4	1/4/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN TONGUE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	1	8	1/8/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	1	15	1/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	1	17	1/17/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; FISH HOOK IN RIGHT REAR FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	1	18	1/18/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS UNDER RIGHT SHOULDER, IN NECK/JAW AREA, TO LEFT DORSAL THORAX & TO RIGHT EYE; RADIOGRAPHS REVEALED TWO BULLETS/PELLETS IN LEFT ELBOW REGION & FINE METAL DENSITY SPRAY IN OCULAR AREA; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO BLINDNESS FROM GUNSHOT)	DEAD	P9	NA
2009	1	18	1/18/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; OLD ENTANGLEMENT WOUND ON NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	1	19	1/19/2009	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LEFT SIDE OF FACE; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO SEPTIC DEGENERATION FROM GUNSHOT)	DEAD	P9	NA
2009	1	21	1/21/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO THORAX & SPINE; RADIOGRAPHS REVEALED BULLET IN THORAX & BULLET IN SPINE; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO PARALYSIS FROM GUNSHOT)	DEAD	P9	NA
2009	1	26	1/26/2009	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO NECK; RADIOGRAPHS REVEALED SHOTGUN PELLETS IN NECK AREA; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO PARALYSIS OF RIGHT REAR FLIPPER DUE TO GUNSHOT); NECROPSY REVEALED CURVED 7 CENTIMETER LONG METAL FRAGMENT IN STOMACH	DEAD	P2	NA
2009	1	26	1/26/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO NECK/SHOULDER AREA; RADIOGRAPHS REVEALED NUMEROUS FRAGMENTS FROM SINGLE BULLET IN NECK/SHOULDER AREA; ABSCESS IN SHOULDER AREA FROM GUNSHOT WOUND CAUSED ANIMAL TO FAVOR RIGHT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB WITH BULLET FRAGMENTS INTACT; ABSCESS TREATED IN REHAB, ANIMAL ABLE TO USE RIGHT FRONT FLIPPER PRIOR TO RELEASE)	NSI	P9	NA
2009	1	26	1/26/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK CAUSING 3 CENTIMETER DEEP LACERATION; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = UNKNOWN)	DEAD	P8A	NA
2009	2	3	2/3/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO RIGHT SHOULDER RESULTING IN MYOSITIS; RADIOGRAPHS REVEALED BULLET FRAGMENTS IN RIGHT SHOULDER & BULLET IN SPINE; MORTALITY (ANIMAL EUTHANIZED IN REHAB; NECROPSY REVEALED SPINAL CORD DAMAGE AT T5 & FRACTURE OF RIGHT 5TH RIB)	DEAD	P9	NA
2009	2	4	2/4/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; OLD GILLNET WOUND ON DORSAL SIDE OF NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	2	6	2/6/2009	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	LIVE STRANDING; 2 GUNSHOT WOUNDS TO BACK; MORTALITY (ANIMAL DIED IN REHAB; SMALL BULLET FRAGMENT REMOVED DURING NECROPSY; NECROPSY REVEALED HEMOTHORAX, PULMONARY HEMORRHAGE & SIMPLE TRAUMATIC RIB FRACTURE)	DEAD	P9	NA
2009	2	6	2/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; FISH HOOK IN NOSTRIL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	2	8	2/8/2009	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	NSI	LIVE STRANDING; OLD GILLNET WOUND AROUND NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	2	8	2/8/2009	CALIFORNIA SEA LION	SHOOTING	SANTA BARBARA	CA	DEAD	DEAD STRANDING; GUNSHOT WOUND TO BACK OF HEAD; CARCASS EXAMINED BY COAL OIL POINT RESERVE PERSONNEL	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	2	8	2/8/2009	CALIFORNIA SEA LION	SHOOTING	SANTA BARBARA	CA	SI	LIVE STRANDING; SHOTGUN WOUND TO HEAD; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	2	15	2/15/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MARIN	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND HEAD & JAW; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	2	19	2/19/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO RIGHT SHOULDER; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO PARALYSIS OF HIND FLIPPERS, CAUSE OF PARALYSIS UNKNOWN; SINGLE BULLET REMOVED FROM VENTRAL SUBCUTANEOUS TISSUE IN RIGHT SHOULDER)	DEAD	P9	NA
2009	2	20	2/20/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	VENTURA	CA	SI	LIVE STRANDING; FAN BELT AROUND HEAD/NECK AREA; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	2	20	2/20/2009	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO HINDFLIPPER; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO GUNSHOT; .22 CALIBER BULLET REMOVED FROM LEFT OF TIBIA MEDIAL CONDYLE)	DEAD	P9	NA
2009	2	23	2/23/2009	CALIFORNIA SEA LION	BAIT BARGE NET ENTANGLEMENT	SAN DIEGO	CA	DEAD	DEAD ANIMAL DISCOVERED INSIDE U.S. NAVY MARINE MAMMAL PROGRAM BAIT PEN	DEAD	NA	NA
2009	2	28	2/28/2009	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = UNKNOWN)	DEAD	P8A	NA
2009	3	10	3/10/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	3	11	3/11/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	3	17	3/17/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	3	18	3/18/2009	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SHEDD AQUARIUM.	CAPTIVITY	NA	NA
2009	3	18	3/18/2009	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SHEDD AQUARIUM.	CAPTIVITY	NA	NA
2009	3	1	3/1/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LOWER RIGHT JAW; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	3	3	3/3/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; FISH HOOKS IN FRONT & REAR FLIPPERS; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	3	14	3/14/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2009	3	14	3/14/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; HARD PLASTIC GASKET AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2009	3	18	3/18/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	KING	WA	SI	SEA LION HAULED OUT ON BUOY WITH MONOFILAMENT FISHING LINE AROUND NECK	SI	P8A	NA
2009	3	19	3/19/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	3	22	3/22/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; BLACK RUBBER BELT (FAN BELT?) AROUND LOWER NECK, CUTTING INTO SHOULDERS, WOUND BLEEDING ; MORTALITY (ANIMAL EUTHANIZED IN REHAB)	DEAD	P8A	NA
2009	3	26	3/26/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; OLD GILLNET WOUND AROUND NECK, TISSUE NECROTIC & INFECTED, NO GEAR ON ANIMAL; MORTALITY (ANIMAL DIED IN REHAB)	DEAD	P1	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO GLADYS PORTER ZOO.	CAPTIVITY	NA	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SHEDD AQUARIUM.	CAPTIVITY	NA	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	4	1	4/1/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; FISH HOOK IN FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	4	12	4/12/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	4	13	4/13/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; ANIMAL RETRIEVED FROM INSIDE BAIT HOLDING TANK; FISH HOOK IN MOUTH; PERENNIAL STRANDER INTERACTING WITH HOOK & LINE FISHERY, ALSO STRANDED IN 2007 & 2008; NON-FATAL INJURY (ANIMAL PERMANENTLY TRANSFERRED FROM REHAB TO U.S. NAVY MARINE MAMMAL PROGRAM)	CAPTIVITY	P5C	NA
2009	4	18	4/18/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN FLIPPER; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO SEVERE HYPOGLYCEMIA)	DEAD	P9	NA
2009	4	19	4/19/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	4	24	4/24/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	OLD GILLNET SCAR AROUND NECK, NO GEAR ON ANIMAL; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO BLINDNESS & DETERIORATING BODY CONDITION)	DEAD	P1	NA
2009	4	25	4/25/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	4	26	4/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; ANIMAL WRAPPED IN FISHING LINE WITH MULTIPLE FISH HOOKS IN BACK & MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	4	30	4/30/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	4	30	4/30/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	5	11	5/11/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	5	13	5/13/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	5	14	5/14/2009	CALIFORNIA SEA LION	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 INJECTION, HEALTH FAILURE.	DEAD	NA	NA
2009	5	1	5/1/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	2	5/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISHING LURE IN LEFT CHEEK, ATTACHED FISHING LINE WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	3	5/3/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; THICK TAN CANVAS WRAPPED AROUND LOWER NECK; MORTALITY (ANIMAL DIED IN REHAB WHILE UNDER ANESTHESIA)	DEAD	P8A	NA
2009	5	5	5/5/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	LIVE STRANDING; FISH HOOK IN RIGHT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	5	5/5/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	5	8	5/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; FISH HOOK IN VENTRUM; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	8	5/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LOWER RIGHT LIP; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	9	5/9/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	9	5/9/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	5	10	5/10/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; BARBED FLY HOOK IN LEFT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	11	5/11/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; FISH HOOK IN RIGHT FOREFLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	13	5/13/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	14	5/14/2009	CALIFORNIA SEA LION	STAB WOUNDS	LOS ANGELES	CA	DEAD	DEAD STRANDING; ADULT FEMALE WITH 41 INCH LONG INCISION ALONG THORACIC & ABDOMINAL CAVITIES; UNKNOWN IF INCISION WAS MADE PRE-MORTEM OR POST-MORTEM; CARCASS LAYING NEXT TO FETUS; PRESUMABLY DOMOIC ACID ANIMAL; PRIVATE CITIZEN MAY HAVE ATTEMPTED TO ASSIST ANIMAL WITH BIRTH OR ATTEMPTED TO EUTHANIZE ANIMAL; CARCASS MODERATELY DECOMPOSED; CARCASS EXAMINED BY CALIFORNIA WILDLIFE CENTER PERSONNEL	DEAD	NA	NA
2009	5	14	5/14/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	DEAD	DEAD STRANDING; 12 INCHES OF FISHING LINE EXTENDING FROM MOUTH; NECROPSY REVEALED PENETRATION OF ESOPHAGEAL WALL BY FISH HOOK	DEAD	NA	NA
2009	5	14	5/14/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN MATEO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL EUTHANIZED IN REHAB)	DEAD	P8A	NA
2009	5	16	5/16/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; FISH HOOK IN HINDFLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	5	17	5/17/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	18	5/18/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; 2 FISH HOOKS IN RIGHT FRONT FLIPPER; MORTALITY (EUTHANIZED IN REHAB DUE TO SEVERE EMACIATION)	DEAD	P1	NA
2009	5	19	5/19/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	19	5/19/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	DEAD	DEAD STRANDING; LEFT THORACIC BODY WALL PENETRATION (GROSS NECROPSY REVEALED FINDINGS CONSISTENT WITH BLUNT FORCE IMPACT THROUGH LEFT THORACIC BODY WALL TERMINATING IN LEFT ATRIUM WITHOUT LEAVING EVIDENCE OF PROJECTILE). SUSPECTED 'BANG STICK' SHOOTING	DEAD	NA	NA
2009	5	20	5/20/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; BLACK RUBBER GASKET AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2009	5	23	5/23/2009	CALIFORNIA SEA LION	CAR COLLISION	ALAMEDA	CA	DEAD	DEAD STRANDING; NECROPSY REVEALED FRACTURED SKULL, BROKEN RIBS, THORACIC HEMORRHAGE & ABDOMINAL ORGANS PUSHED UP INTO CHEST CAVITY	DEAD	NA	NA
2009	5	23	5/23/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	23	5/23/2009	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LEFT SIDE OF BODY; MORTALITY (ANIMAL EUTHANIZED IN REHAB; BULLET RETRIEVED FROM SOFT TISSUE OF LEFT LATERAL THORAX)	DEAD	P12	NA
2009	5	24	5/24/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; TWO FISH HOOKS IN RIGHT FRONT FLIPPER, TWO FISH HOOKS IN RIGHT REAR FLIPPER, TWO FISH HOOKS IN LEFT REAR FLIPPER, FISH HOOK IN MOUTH THROUGH TONGUE & GUM; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = UNKNOWN)	DEAD	P5A	NA
2009	5	24	5/24/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISH HOOK IN LOWER LIP; NON-FATAL INJURY (HOOK REMOVED ON SITE, ANIMAL RELOCATED & RELEASED)	NSI	P5C	NA
2009	5	25	5/25/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; FISH HOOKS IN LEFT FRONT FLIPPER & IN CORNER OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	25	5/25/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT FOREFLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	26	5/26/2009	CALIFORNIA SEA LION	SCIENTIFIC RESEARCH TRAWL	SONOMA	CA	NSI	ANIMAL SWAM INTO NMFS RESEARCH VESSEL TRAWL NET DURING HAULBACK; TOTAL CAPTURE TIME = 2 MINUTES IN WATER, 3 MINUTES ON DECK; PRESUMED NON-FATAL INJURY (ANIMAL DESCRIBED AS ENERGETIC DURING CONTAINMENT & VIGOROUS UPON RELEASE)	NSI	P4	NA
2009	5	26	5/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOKS IN RIGHT REAR FLIPPER & RIGHT LOWER LIP; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & PARASITISM)	DEAD	P5A	NA
2009	5	26	5/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOKS WITH LINE ATTACHED IN JAW & LEFT FRONT FLIPPER; MORTALITY (ANIMAL DIED DURING TRANSPORT TO REHAB; NECROPSY REVEALED FISH HOOK IN PYLORUS WALL; CAUSE OF DEATH = PARASITIC GASTROENTERITIS)	DEAD	P5A	NA
2009	5	27	5/27/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	27	5/27/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SANTA CRUZ	CA	SI	LIVE STRANDING; STRING AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	5	28	5/28/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	28	5/28/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOKS IN FLIPPERS; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	29	5/29/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK IN FACE; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = UNKNOWN)	DEAD	P5B	NA
2009	5	29	5/29/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	LIVE STRANDING; FISH HOOK IN FACE ABOVE RIGHT EYE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	30	5/30/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	30	5/30/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISHING LURE IN LEFT SIDE OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	SI	P2	NA
2009	5	30	5/30/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOKS IN RIGHT FRONT FLIPPER, LEFT FRONT FLIPPER, & IN FACE ABOVE RIGHT EYE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	31	5/31/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	31	5/31/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; FISHING LURE WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	SI	P2	NA
2009	5	31	5/31/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN BACK & JUST ABOVE RIGHT EYE; NON-FATAL INJURY (HOOKS REMOVED & ANIMAL RELEASED ON SITE)	NSI	P5C	NA
2009	6	2	6/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT SIDE OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	4	6/4/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN SHOULDER; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & SEPTICEMIA)	DEAD	P1	NA
2009	6	6	6/6/2009	CALIFORNIA SEA LION	SHOOTING	ORANGE	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO FACE; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO SEVERE MALNUTRITION & SEVERE PNEUMONIA; .22 CALIBER BULLET RETRIEVED FROM UNDER SKIN FROM LEFT SIDE OF FACE DURING NECROPSY)	DEAD	P9	NA
2009	6	6	6/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN UPPER LIP; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	7	6/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED STEEL LEADER IN LEFT SIDE OF MOUTH; MORTALITY (DIED IN REHAB; CAUSE OF DEATH = PERITONITIS SECONDARY TO OBSTRUCTED BOWEL)	DEAD	P5A	NA
2009	6	7	6/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	7	6/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & PNEUMONIA)	DEAD	P5A	NA
2009	6	7	6/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; FISH HOOK IN HINDFLIPPER; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P1	NA
2009	6	8	6/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN LEFT FRONT FLIPPER & IN TONGUE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	8	6/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	NSI	LIVE STRANDING; FISH HOOK IN HEAD BEHIND RIGHT EAR; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	6	8	6/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK IN LOWER LEFT EYELID, FISH HOOK IN LOWER LIP; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P5A	NA
2009	6	8	6/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN THROAT; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P5A	NA
2009	6	9	6/9/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT FRONT FLIPPER; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PERFORATED ULCER & MALNUTRITION)	DEAD	P1	NA
2009	6	9	6/9/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOKS IN RIGHT FRONT FLIPPER & LEFT & RIGHT REAR FLIPPERS; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P1	NA
2009	6	10	6/10/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT VENTRAL SHOULDER AREA; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	10	6/10/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK IN BOTH LIPS; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	10	6/10/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (NECROPSY REVEALED FISHING LURE IN STOMACH; CAUSE OF DEATH = MALNUTRITION & LYMPH NODE ABSCESS)	DEAD	P2	NA
2009	6	12	6/12/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LOWER LEFT JAW; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	12	6/12/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	6	13	6/13/2009	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	DEAD	DEAD STRANDING; GILLNET FRAGMENT AROUND NECK; CARCASS EXAMINED BY CHANNEL ISLANDS MARINE & WILDLIFE INSTITUTE PERSONNEL	DEAD	P8A	NA
2009	6	13	6/13/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; FISH HOOK WITH LINE ATTACHED IN LEFT SIDE OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	13	6/13/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; 10 FISH HOOKS WITH ATTACHED LINE & 3 POUND WEIGHT IN & WRAPPED AROUND FLIPPERS, CHEST & BACK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	13	6/13/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; TREBLE FISH HOOK IN RIGHT CHEEK; NON-FATAL INJURY (HOOK REMOVED & ANIMAL RELEASED ON SITE)	NSI	P5C	NA
2009	6	14	6/14/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL EUTHANIZED IN REHAB)	DEAD	P8A	NA
2009	6	15	6/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	15	6/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	16	6/16/2009	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO LEFT FLIPPER ABSCESS & OSTEOMYELITIS; NECROPSY REVEALED BULLET TIP IN SUBCUTANEOUS TISSUE ON RIGHT SIDE OF NECK)	DEAD	P9	NA
2009	6	19	6/19/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	6	19	6/19/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOKS, SINKERS & FLOAT WITH ATTACHED LINE IN LEFT LIP & WRAPPED AROUND MUZZLE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	19	6/19/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE & SINKER IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & PNEUMONIA)	DEAD	P5A	NA
2009	6	19	6/19/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SANTA BARBARA	CA	SI	LIVE STRANDING; PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	6	20	6/20/2009	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	DEAD	DEAD STRANDING; 3 CENTIMETER DIAMETER HOLE IN VENTRAL THORAX EXTENDING 7 CENTIMETERS, PENETRATING LUNG; hemorrhage IN MUSCLE SURROUNDING WOUND; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2009	6	20	6/20/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED 4 SMALL SHOTGUN PELLETS JUST UNDER SKIN ON RIGHT SIDE OF ABDOMEN; CAUSE OF DEATH = NEOPLASIA WITH METASTASIS)	DEAD	P12	NA
2009	6	20	6/20/2009	CALIFORNIA SEA LION	SHOOTING	VENTURA	CA	DEAD	DEAD STRANDING; METAL DETECTOR SCANNED POSITIVE; CARCASS EXAMINED BY CHANNEL ISLANDS MARINE & WILDLIFE INSTITUTE PERSONNEL	DEAD	NA	NA
2009	6	20	6/20/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN MATEO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PERFORATED ULCER, PERITONITIS & MALNUTRITION)	DEAD	P8A	NA
2009	6	21	6/21/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	6	21	6/21/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN MATEO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	6	21	6/21/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK & IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION, PERFORATED ULCER & SEPTICEMIA)	DEAD	P8A	NA
2009	6	21	6/21/2009	CALIFORNIA SEA LION	GILLNET FISHERY/MARINE DEBRIS	SANTA BARBARA	CA	NSI	LIVE STRANDING; OLD ENTANGLEMENT WOUND ON NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	6	21	6/21/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	24	6/24/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISHING LURE WITH ATTACHED LINE IN HIND QUARTERS; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED SMALL FISH HOOK & FISHING LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	6	25	6/25/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & VERMINOUS PNEUMONIA)	DEAD	P5A	NA
2009	6	26	6/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN EAR, TWO FISH HOOKS IN REAR FLIPPERS; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO HYPOGLYCEMIA, PNEUMONIA, LUNGWORM INFESTATION & SEVERE MALNUTRITION)	DEAD	P1	NA
2009	6	26	6/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN FRANCISCO	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED SINKER IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	26	6/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK & FISHING LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	6	27	6/27/2009	CALIFORNIA SEA LION	BLUNT FORCE TRAUMA	LOS ANGELES	CA	SI	LIVE STRANDING; WOUND ABOVE RIGHT EYE, BLOOD & PUS Oozing from eye; face & jaw swollen; mortality (animal died in rehab; necropsy revealed that wound over right eye communicated with right eye socket, tunneling under subcutaneous tissue caudally & medially & to left side of skull; bone fragments were palpable around frontal sinus area & penetrated into brain; bruised head musculature; radiographs revealed no fractures or foreign bodies; cause of death = blunt force trauma to head)	DEAD	P9	NA
2009	6	27	6/27/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; BLUE flasher fishing lure in mouth; mortality (animal died in rehab; cause of death = malnutrition & verminous pneumonia)	DEAD	P2	NA
2009	6	27	6/27/2009	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	SI	LIVE STRANDING; mortality (animal euthanized in rehab due to bacterial pneumonia, pleuritis & leptospirosis; necropsy revealed free floating pellet in stomach & pellet in skeletal muscle of right scapula)	DEAD	P12	NA
2009	6	27	6/27/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MARIN	CA	NSI	LIVE STRANDING; fish hook in back; mortality (animal died in rehab; cause of death = malnutrition, abscess & pneumonia)	DEAD	P9	NA
2009	6	28	6/28/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; mortality (animal died in rehab; necropsy revealed two fish hooks & 30 centimeters of fishing line in stomach; hooks not specifically associated with stomach perforations, irritation or obstruction; cause of death = emaciation, dehydration & hypoglycemia)	DEAD	P2	NA
2009	6	28	6/28/2009	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	NSI	LIVE STRANDING; old healed gillnet wound on neck, no gear on animal; non-fatal injury (animal captured & relocated to less populated beach)	NSI	P1	NA
2009	6	28	6/28/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; fish hook with attached line in flipper; mortality (animal died in rehab; necropsy revealed multiple fish hooks & line in stomach; cause of death = pleuritis & malnutrition)	DEAD	P2	NA
2009	6	28	6/28/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN FRANCISCO	CA	SI	LIVE STRANDING; thin black rubber cord around neck; mortality (animal died in rehab; cause of death = peritonitis & perforated ulcer)	DEAD	P8A	NA
2009	6	28	6/28/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	LIVE STRANDING; fish hook in lower lip; non-fatal injury (animal released from rehab)	NSI	P5C	NA
2009	6	29	6/29/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; fish hooks in right jaw & over right eye; mortality (animal died in rehab; necropsy revealed fish hook with attached line in stomach, not embedded; cause of death = fish hook ingestion & abscessation)	DEAD	P2	NA
2009	6	29	6/29/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	VENTURA	CA	SI	LIVE STRANDING; fish hook in mouth; non-fatal injury (animal released from rehab)	NSI	P5C	NA
2009	6	29	6/29/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; fish hook in upper lip, two fish hooks in left front flipper; non-fatal injury (animal released from rehab)	NSI	P5C	NA
2009	7	1	7/1/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN FRANCISCO	CA	SI	LIVE STRANDING; fishing lure with attached line in right side of mouth; mortality (animal died in rehab; cause of death = malnutrition)	DEAD	P2	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	7	1	7/1/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT REAR FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	2	7/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	2	7/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO MASSIVE SHARK BITE WOUND TO ABDOMEN)	DEAD	P9	NA
2009	7	2	7/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK & FISHING LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	2	7/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MULTIPLE FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	3	7/3/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MULTIPLE FISH HOOKS IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PNEUMONIA)	DEAD	P5A	NA
2009	7	3	7/3/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOKS IN MOUTH, CHEEK & REAR FLIPPERS; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P5A	NA
2009	7	3	7/3/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	4	7/4/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISHING LURE WITH ATTACHED LINE IN LEFT UPPER LIP; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	4	7/4/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOKS IN MOUTH & FLIPPERS; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK & FISHING LINE IN ESOPHAGUS; CAUSE OF DEATH = PNEUMONIA & PYOTHORAX)	DEAD	P2	NA
2009	7	4	7/4/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN LEFT SIDE OF NECK & REAR FLIPPER; MORTALITY (ANIMAL EUTHANIZED IN REHAB; NECROPSY REVEALED 10 CENTIMETER DIAMETER BUNCHING OF FISHING LINE IN STOMACH RESULTING IN GASTRIC IMPACTION)	DEAD	P2	NA
2009	7	5	7/5/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT EMBEDDED IN HEAD; NON-FATAL INJURY (ANIMAL PERMANENTLY TRANSFERRED TO U.S. NAVY MARINE MAMMAL PROGRAM)	CAPTIVITY	P8A	NA
2009	7	5	7/5/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK & FISHING LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	5	7/5/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT SIDE OF BODY; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = VERMINOUS PNEUMONIA & MALNUTRITION)	DEAD	P9	NA
2009	7	5	7/5/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISHING LURE WITH ATTACHED FLOAT & LINE IN MOUTH; FISH HOOKS IN RIGHT FRONT FLIPPER, RIGHT REAR FLIPPER & LEFT REAR FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	SI	P2	NA
2009	7	6	7/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	6	7/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LOWER LEFT LIP; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	6	7/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN RIGHT REAR HIP AREA; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	7	6	7/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN RIGHT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	7	7/7/2009	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	7	7	7/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; SMALL FISH HOOK IN RIGHT SIDE OF BODY; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	7	7/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK IN LEFT EYELID; MORTALITY (ANIMAL DIED IN REHAB FROM PERFORATED EYE CAUSED BY ABRASION FROM FISH HOOK & RESULTING INFECTION)	DEAD	P5B	NA
2009	7	7	7/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; SMALL FISH HOOK WITH ATTACHED LINE IN LEFT CHEEK, FISHING LINE WRAPPED AROUND HEAD BETWEEN EYES & NOSE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN LIP; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = SEPTICEMIA ASSOCIATED WITH SUBCUTANEOUS ABSCESS ALONG LEFT SIDE OF BODY WALL & MALNUTRITION)	DEAD	NA	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; TWO FISH HOOKS IN BASE OF TAIL & LEFT FRONT FLIPPER, ANOTHER FISH HOOK REMOVED FROM STOMACH THROUGH ENDOSCOPY; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & VERMINOUS PNEUMONIA)	DEAD	P2	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; SMALL GOLD FISH HOOKS IN RIGHT EYELID, LEFT SIDE OF MOUTH & LEFT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	SI	LIVE STRANDING; 2.5 FEET OF FISHING LINE WRAPPED AROUND BODY, FISH HOOK REMOVED FROM STOMACH THROUGH ENDOSCOPY; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = SEPTICEMIA RELATED TO FISHING GEAR INGESTION)	DEAD	P2	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; RUBBER FISHING LURE WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	SI	P2	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED TWO FISH HOOKS WITH ATTACHED LINE IN ESOPHAGUS & DUODENUM; CAUSE OF DEATH = MALNUTRITION, PERITONITIS & SEPTICEMIA POSSIBLY ASSOCIATED WITH FISHING GEAR INGESTION)	DEAD	P2	NA
2009	7	8	7/8/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK WITH ATTACHED LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	10	7/10/2009	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	SAN FRANCISCO	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED ELASTIC BAND IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	12	7/12/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; LIGHT GREEN GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	7	12	7/12/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; PINK GILLNET FRAGMENT AROUND NECK, CUTTING INTO TRACHEA; MORTALITY (ANIMAL EUTHANIZED IN REHAB)	DEAD	P8A	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	7	12	7/12/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MULTIPLE FISH HOOKS WITH ATTACHED LINE IN MOUTH, SHOULDER & FLIPPERS; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	13	7/13/2009	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	NSI	LIVE STRANDING; RADIOGRAPHS REVEALED 4 BULLET FRAGMENTS IN SHOULDER REGION; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB WITH BULLET FRAGMENTS INTACT)	NSI	P9	NA
2009	7	13	7/13/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MARIN	CA	SI	LIVE STRANDING; FISHING LINE HANGING FROM MOUTH, THREE FISH HOOKS REMOVED FROM INSIDE THROAT THROUGH ENDOSCOPY; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = UNKNOWN)	DEAD	P2	NA
2009	7	14	7/14/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT FRONT FLIPPER; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED TREBLE HOOKS & WEIGHTS IN ESOPHAGUS & STOMACH; CAUSE OF DEATH = SEPTICEMIA RELATED TO FISHING GEAR INGESTION)	DEAD	P2	NA
2009	7	15	7/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SONOMA	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	15	7/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN MOUTH & LEFT FRONT FLIPPER, ANOTHER FISH HOOK REMOVED FROM STOMACH THROUGH ENDOSCOPY; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	15	7/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN NOSE & BACK, FISHING LINE WOUND LOOSELY AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	16	7/16/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN NECK, FISHING LINE LOOSELY WOUND AROUND NECK; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = VERMINOUS PNEUMONIA)	DEAD	P5C	NA
2009	7	17	7/17/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED ADDITIONAL FISH HOOKS IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	18	7/18/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT REAR FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	18	7/18/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOK IN NOSE; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PNEUMONIA & MALNUTRITION)	DEAD	P5B	NA
2009	7	19	7/19/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAPMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	7	19	7/19/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK IN CORNER OF MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & SEVERE PULMONARY & GASTROINTESTINAL PARASITISM)	DEAD	P5A	NA
2009	7	19	7/19/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN REAR FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	19	7/19/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; THIN WHITE PACKING STRAP AROUND NECK; MORTALITY (ANIMAL DIED IN REHAB)	DEAD	P8A	NA
2009	7	19	7/19/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	7	20	7/20/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISHING LURE WITH ATTACHED LINE IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	7	20	7/20/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT SIDE OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	20	7/20/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; PINK GILLNET FRAGMENT AROUND NECK & EARS; MORTALITY (ANIMAL DIED IN REHAB)	DEAD	P8A	NA
2009	7	21	7/21/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	21	7/21/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOKS WITH ATTACHED LINE IN RIGHT SIDE OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	24	7/24/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE & SWIVEL IN OUTER LIP; NON-FATAL INJURY (FISHING GEAR REMOVED & ANIMAL RELEASED ON SITE)	NSI	P5C	NA
2009	7	25	7/25/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT DORSUM; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	26	7/26/2009	CALIFORNIA SEA LION	SHOOTING	HUMBOLDT	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LEFT FRONT FLIPPER; MORTALITY (EUTHANIZED IN REHAB DUE TO GUNSHOT WOUND)	DEAD	P9	NA
2009	7	26	7/26/2009	CALIFORNIA SEA LION	SHOOTING/SPEARING	LOS ANGELES	CA	SI	LIVE STRANDING; ANIMAL BLEEDING FROM SMALL RAISED HOLE IN HEAD REGION; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED 1.5 CENTIMETER HOLE THROUGH SKULL INTO BRAIN WITH PURULENT/HEMORRHAGIC DISCHARGE ON RIGHT SIDE OF SKULL BEHIND EAR; RADIOGRAPHS SHOWED NO EVIDENCE OF FOREIGN BODY IN SKULL; NO EXIT WOUND FOUND)	DEAD	P9	NA
2009	7	26	7/26/2009	CALIFORNIA SEA LION	CAR COLLISION	HUMBOLDT	CA	DEAD	CARCASS IN MIDDLE OF ROAD; CARCASS EXAMINED BY HSU-VM PERSONNEL	DEAD	NA	NA
2009	7	26	7/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO VERMINOUS PNEUMONIA; NECROPSY REVEALED FISH HOOK & FISHING LINE IN STOMACH)	DEAD	P2	NA
2009	7	26	7/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK & LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION)	DEAD	P2	NA
2009	7	26	7/26/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL DIED DURING TRANSPORT TO REHAB; PRIMARY CAUSE OF DEATH = PNEUMONIA, SECONDARY CAUSE OF DEATH = ENTANGLEMENT)	DEAD	P8A	NA
2009	7	28	7/28/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; SMALL GOLD FISH HOOK IN TOP OF NOSE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	28	7/28/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOKS IN MOUTH & LEFT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	30	7/30/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN FRANCISCO	CA	NSI	LIVE STRANDING; ANIMAL ENTANGLED IN MASS OF FISH HOOKS, FISHING LINE, WEIGHTS & PINK BEADS; ALL GEAR FELL OFF ANIMAL DURING RETRIEVAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	31	7/31/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LIP; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	24	8/24/2009	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2009	8	1	8/1/2009	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	SI	LIVE STRANDING; BROKEN BONE PROTRUDING FROM RIGHT FRONT FLIPPER; MORTALITY (ANIMAL DIED IN REHAB; RADIOGRAPHS REVEALED BULLETS & SHOT GUN PELLETS IN HEAD & RIGHT FRONT FLIPPER)	DEAD	P9	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	8	2	8/2/2009	CALIFORNIA SEA LION	SHOOTING	VENTURA	CA	DEAD	DEAD STRANDING; METAL DETECTOR SCANNED POSITIVE; CARCASS EXAMINED BY CHANNEL ISLANDS MARINE & WILDLIFE INSTITUTE PERSONNEL	DEAD	NA	NA
2009	8	2	8/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN FRANCISCO	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK WITH ATTACHED LINE IN STOMACH; CAUSE OF DEATH = MALNUTRITION & SEPTICEMIA)	DEAD	P2	NA
2009	8	3	8/3/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK IN RIGHT CORNER OF MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	3	8/3/2009	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO RIGHT SIDE OF HEAD, LEFT ULNA & LEFT EYE; NON-FATAL INJURY (RADIOGRAPHS REVEALED TWO PELLETS IN RIGHT SIDE OF HEAD & 1 PELLETS IN LEFT ULNA; LEFT EYE RUPTURED, EYEBALL SURGICALLY REMOVED IN REHAB; ANIMAL RELEASED FROM REHAB WITH PELLETS INTACT)	NSI	P9	NA
2009	8	4	8/4/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	DEL NORTE	CA	NSI	LIVE STRANDING; FISH HOOK IN RIGHT EAR; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	4	8/4/2009	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	DEAD	DEAD STRANDING; GUNSHOT WOUNDS TO JAW & HEAD (BULLET HOLE IN MAXILLA, BULLET HOLE IN CRANIUM); CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	8	6	8/6/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; RUBBER FISH-SHAPED FISHING LURE WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	SI	P2	NA
2009	8	7	8/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISH HOOK IN NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	9	8/9/2009	CALIFORNIA SEA LION	SHOOTING	SAN FRANCISCO	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO HEAD, EYE, & LEFT SHOULDER; MORTALITY (ANIMAL EUTHANIZED IN REHAB; RADIOGRAPHS REVEALED 8 PELLETS IN SKULL; BULLET EXTRACTED FROM LEFT SHOULDER & PELLETS EXTRACTED FROM EYE DURING NECROPSY)	DEAD	P9	NA
2009	8	9	8/9/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	10	8/10/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISHING LINE COMING FROM MOUTH; MORTALITY (ANIMAL DIED IN REHAB; ANIMAL VOMITED FISH HOOK WITH ATTACHED LINE & SINKER FOUR DAYS AFTER ADMITTANCE & DIED THREE HOURS LATER; NECROPSY REVEALED 3 CENTIMETER FISH HOOK LODGED MIDWAY DOWN ESOPHAGUS WITH 37 CENTIMETERS OF ATTACHED LINE)	DEAD	P2	NA
2009	8	10	8/10/2009	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED PELLETS IN LEFT THORAX; CAUSE OF DEATH = MALNUTRITION & VERMINOUS PNEUMONIA)	DEAD	P12	NA
2009	8	11	8/11/2009	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; RADIOGRAPHS REVEALED PELLETS UNDER SKIN IN CHEST & IN RIGHT REAR FLIPPER; CAUSE OF DEATH = VERMINOUS PNEUMONIA & MALNUTRITION)	DEAD	P12	NA
2009	8	12	8/12/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	DEAD	DEAD STRANDING; GUNSHOT-LIKE WOUND TO ABDOMEN; REPORT RECEIVED VIA PRIVATE CITIZEN	DEAD	NA	NA
2009	8	12	8/12/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE STRANDING; PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	8	14	8/14/2009	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	DEAD	DEAD STRANDING; GUNSHOT WOUNDS TO HEAD (BULLET HOLES IN CRANIUM); CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	8	14	8/14/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; FISH HOOK IN LEFT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	14	8/14/2009	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO UPPER PALATE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	8	15	8/15/2009	CALIFORNIA SEA LION	GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	NSI	LIVE STRANDING; OLD ENTANGLEMENT SCAR ON NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED ON SITE)	NSI	P7B	NA
2009	8	15	8/15/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2009	8	15	8/15/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT EYEBROW, ANOTHER FISH HOOK IN BODY; NON-FATAL INJURY (FISHING GEAR REMOVED & ANIMAL RELEASED ON SITE)	NSI	P5C	NA
2009	8	16	8/16/2009	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED BIRD SHOT IN THORAX AREA; CAUSE OF DEATH = MALNUTRITION & INFECTION FROM LEFT FRONT FLIPPER ABSCESS)	DEAD	P9	NA
2009	8	18	8/18/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	SI	LIVE STRANDING; FISHING LINE COMING FROM MOUTH; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK IN STOMACH; CAUSE OF DEATH = UNKNOWN)	DEAD	P2	NA
2009	8	19	8/19/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN RIGHT LOWER LIP; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & VERMINOUS PNEUMONIA)	DEAD	P5B	NA
2009	8	22	8/22/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MARIN	CA	SI	LIVE STRANDING; TREBLE HOOK WITH LINE ATTACHED IN MOUTH, FISHING LINE WRAPPED AROUND REAR FLIPPERS; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	23	8/23/2009	CALIFORNIA SEA LION	GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; OLD HEALING ENTANGLEMENT WOUND IN UPPER NECK AREA, NO GEAR ON ANIMAL, BULGE ABOVE WOUND; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = CARCINOMA)	DEAD	P9	NA
2009	8	23	8/23/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	LIVE STRANDING; FISHING LINE COMING FROM MOUTH; RADIOGRAPHS REVEALED FISH HOOK IN STOMACH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	SI	P2	NA
2009	8	24	8/24/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; LEFT REAR LIMB PARALYSIS; MORTALITY (ANIMAL EUTHANIZED IN REHAB; RADIOGRAPHS REVEALED BULLET ADJACENT TO SPINE)	DEAD	P9	NA
2009	8	25	8/25/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	8	26	8/26/2009	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO LEFT FRONT FLIPPER ABSCESS; NECROPSY REVEALED PELLET IN LEFT SHOULDER)	DEAD	P9	NA
2009	8	30	8/30/2009	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	DEAD	DEAD STRANDING; GUNSHOT WOUNDS TO DORSAL HIND END & CHEST; BULLET HOLE IN RIB; LARGE AMOUNT OF BLOOD INSIDE THORACIC & ABDOMINAL CAVITIES; CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	9	1	9/1/2009	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; RADIOGRAPHS REVEALED TWO PELLETS IN CHEST; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PERFORATED ULCER & PERITONITIS)	DEAD	P9	NA
2009	9	5	9/5/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; BLUE GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	9	7	9/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN MATEO	CA	NSI	LIVE STRANDING; FISH HOOK IN RIGHT REAR FLIPPER; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO SHARK BITE WOUND TO HINDQUARTERS)	DEAD	P9	NA
2009	9	8	9/8/2009	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO SPINE; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO LOWER BODY PARALYSIS RESULTING FROM GUNSHOT WOUND; SINGLE BULLET FRAGMENT EXTRACTED DURING NECROPSY)	DEAD	P9	NA
2009	9	12	9/12/2009	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	MONTEREY	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO CHRONIC DOMOIC ACID TOXICITY; NECROPSY REVEALED SINGLE PIECE OF BLACK PLASTIC IN STOMACH)	DEAD	P2	NA
2009	9	18	9/18/2009	CALIFORNIA SEA LION	RESEARCH SCIENTIFIC LONGLINE	SAN DIEGO	CA	NSI	ANIMAL CAUGHT IN NMFS SCIENTIFIC LONGLINE RESEARCH; ANIMAL HOOKED IN LIP; LINE CUT TWELVE INCHES ABOVE HOOK; ANIMAL RELEASED WITH TRAILING GEAR; CREW UNABLE TO REMOVE HOOK DUE TO ENERGY LEVEL OF ANIMAL; ANIMAL SWAM AWAY STRONGLY; FINAL STATUS UNKNOWN	NSI	P5B	NA
2009	9	20	9/20/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; RADIOGRAPHS REVEALED PELLETS IN SKULL & RIGHT FRONT FLIPPER; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = DROWNING)	DEAD	P9	NA
2009	9	21	9/21/2009	CALIFORNIA SEA LION	VESSEL STRIKE	LINCOLN	OR	SI	SEVERE INJURY TO RIGHT HIP AREA; ANIMAL CONTINUED TO SWIM AND HAUL OUT ON FLOATING DOCK; WAS OBSERVED FOR OVER TWO WEEKS, UNKNOWN WHETHER HE SURVIVED OR NOT BUT INJURY APPEARED TO BE LIFE THREATENING; ANIMAL LEFT THE SITE	SI	P15	NA
2009	9	22	9/22/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAPMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	9	22	9/22/2009	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO LEFT EYE & HEAD; RADIOGRAPHS REVEALED PELLETS IN HEAD; NON-FATAL INJURY (ANIMAL TRANSFERRED TO CLEVELAND ZOO FOR PERMANENT PUBLIC DISPLAY)	CAPTIVITY	P9	NA
2009	9	22	9/22/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MARIN	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO INFECTION FROM FACE ABSCESS)	DEAD	P5A	NA
2009	9	29	9/29/2009	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	MARIN	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO BLINDNESS; NECROPSY REVEALED PLASTIC BAG & FRACTURED RIB IN STOMACH)	DEAD	P2	NA
2009	9	30	9/30/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MARIN	CA	DEAD	DEAD STRANDING; GILLNET FRAGMENT AROUND NECK; CARCASS EXAMINED BY CAS PERSONNEL	DEAD	P8A	NA
2009	10	2	10/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LIP; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	10	2	10/2/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT AXILLARY REGION; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO DOMOIC ACID TOXICITY)	DEAD	P9	NA
2009	10	4	10/4/2009	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO LEFT EYE, PELLET EXTRACTED; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = DOMOIC ACID TOXICITY)	DEAD	P9	NA
2009	10	9	10/9/2009	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	NSI	LIVE STRANDING; OLD GILLNET WOUND ON NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P9	NA
2009	10	10	10/10/2009	CALIFORNIA SEA LION	BLUNT FORCE TRAUMA	LOS ANGELES	CA	SI	LIVE STRANDING; BILATERAL FRACTURE OF MANDIBLE; NECROTIC MANDIBLE BONE FRAGMENTS; MORTALITY (ANIMAL EUTHANIZED IN REHAB)	DEAD	P9	NA
2009	10	10	10/10/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	10	12	10/12/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	NSI	LIVE STRANDING; FISH HOOK IN CHIN; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	10	13	10/13/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; OLD GILLNET SCAR ON NECK, NO GEAR ON ANIMAL; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = UNKNOWN)	DEAD	P8A	NA
2009	10	14	10/14/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO EMACIATED BODY CONDITION; NECROPSY REVEALED SINGLE BULLET LODGED BETWEEN SKIN & BODY WALL ON RIGHT SIDE OF BODY APPROXIMATELY 30 CENTIMETERS FROM CAUDAL END OF BASE OF FLIPPER & APPROXIMATELY 40 FISH HOOKS, 2 SWIVELS, 1 LEAD SINKER & BALL OF FISHING LINE IN STOMACH, INCLUDING 2 FISHING LURES, 4 ARTIFICIAL FLIES, 5 TREBLE HOOKS & NUMEROUS SINGLE HOOKS	DEAD	P2	NA
2009	10	19	10/19/2009	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MENDOCINO	CA	SI	LIVE STRANDING; 3-4 LAYERS OF DUCT TAPE AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	10	20	10/20/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	10	20	10/20/2009	CALIFORNIA SEA LION	SHOOTING	MASON	WA	DEAD	BULLET IN HEAD	DEAD	NA	NA
2009	10	23	10/23/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	NSI	LIVE STRANDING; ANIMAL FIRST SIGHTED ON 8-OCT IN MONTEREY HARBOR WITH FISH HOOK IN RIGHT REAR FLIPPER, CAPTURE ATTEMPT UNSUCCESSFUL; NON-FATAL INJURY; (ANIMAL APPEARS TO HAVE LOST HOOK BETWEEN CAPTURE ATTEMPTS; ANIMAL TRANSFERRED TO LONG MARINE LABORATORY FOR PERMANENT INCORPORATION INTO THEIR LIVE ANIMAL COLLECTION	CAPTIVITY	P5C	NA
2009	10	24	10/24/2009	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO BACK BETWEEN SHOULDERS & NEAR LEFT FRONT FLIPPER; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO BLINDNESS & IMPAIRED HEARING FROM TRAUMA OF UNKNOWN ORIGIN; NECROPSY REVEALED PELLETS IN RIGHT FRONT FLIPPER & IN SKIN OF RIGHT CAUDAL ABDOMEN)	DEAD	P9	NA
2009	10	24	10/24/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO REPEATED SEIZURES LINKED TO DOMOIC ACID TOXICITY)	DEAD	P8A	NA
2009	10	24	10/24/2009	CALIFORNIA SEA LION	ROPE	MARIN	CA	DEAD	DEAD STRANDING; 15 INCH PIECE OF HEMP ROPE TIED AROUND MIDSECTION; APPEARS THAT ANIMAL WAS TOWED (ROPE TIED IN SLIP KNOT); UNKNOWN IF ANIMAL WAS ALIVE OR DEAD AT TIME OF TOWING; CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	10	26	10/26/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED FISH HOOK IN ESOPHAGEAL WALL; CAUSE OF DEATH = SEVERE PNEUMONIA)	DEAD	P2	NA
2009	10	26	10/26/2009	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	SI	LIVE STRANDING; GUNSHOT WOUND TO RIGHT EYE, RADIOGRAPHS REVEALED SINGLE BULLET IN EYE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB, BULLET WAS NOT EXTRACTED)	NSI	P9	NA
2009	10	28	10/28/2009	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	10	31	10/31/2009	CALIFORNIA SEA LION	SPRAY PAINTING	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; ORANGE SPRAY PAINT ON RIGHT SIDE OF HEAD, RIGHT FLIPPER & RIGHT FLANK; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO DOMOIC ACID TOXICITY)	DEAD	P9	NA

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2009	11	3	11/3/2009	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL DIED IN REHAB; PRIMARY CAUSE OF DEATH = MALNUTRITION, SECONDARY CAUSE OF DEATH = ENTANGLEMENT)	DEAD	P8A	NA
2009	11	4	11/4/2009	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	11	5	11/5/2009	CALIFORNIA SEA LION	ROPE	MARIN	CA	DEAD	DEAD STRANDING; PIECE OF HEMP ROPE TIED AROUND MIDSECTION; APPEARS THAT ANIMAL WAS TOWED (ROPE TIED IN SLIP KNOT); UNKNOWN IF ANIMAL WAS ALIVE OR DEAD AT TIME OF TOWING; CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	11	7	11/7/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN FRANCISCO	CA	DEAD	LIVE STRANDING; FISH HOOKS IN LEFT FRONT FLIPPER & RIGHT HIND FLIPPER; MORTALITY (ANIMAL DIED ON SITE PRIOR TO ARRIVAL OF RESCUE TEAM; PARTIAL NECROPSY REVEALED GUNSHOT-LIKE HOLE IN RIB, NO BULLET OR PELLET WAS FOUND IN BODY CAVITY); CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	11	10	11/10/2009	CALIFORNIA SEA LION	SHOOTING	YOLO	CA	SI	LIVE STRANDING; GUNSHOT WOUNDS TO FACE & NOSE; RADIOGRAPHS REVEALED NUMEROUS PELLETS & LEAD FRAGMENTS IN HEAD BUT NONE ENTERING BRAIN CAVITY; NON-FATAL INJURY (ANIMAL TRANSFERRED TO SIX FLAGS DISCOVERY KINGDOM IN VALLEJO FOR PERMANENT PUBLIC DISPLAY)	CAPTIVITY	P9	NA
2009	11	15	11/15/2009	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	11	20	11/20/2009	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	11	23	11/23/2009	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	11	23	11/23/2009	CALIFORNIA SEA LION	VESSEL STRIKE	DEL NORTE	CA	SI	LIVE STRANDING; SEVERE PROPELLER WOUNDS TO RIGHT FRONT FLIPPER & SHOULDER; MORTALITY (ANIMAL EUTHANIZED IN REHAB)	DEAD	P9	NA
2009	12	4	12/4/2009	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	12	5	12/5/2009	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	12	6	12/6/2009	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	12	9	12/9/2009	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	12	10	12/10/2009	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	12	11	12/11/2009	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	DEAD	LIVE STRANDING; FISH HOOKS IN ABDOMEN & LEFT AXILLARY REGION; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PRESUMED DROWNING FROM SEIZURE ACTIVITY LINKED TO DOMOIC ACID TOXICITY)	DEAD	NA	NA
2010	1	4	1/4/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	BULLET FRAGMENTS IN SKULL	DEAD	NA	NA
2010	1	6	1/6/2010	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLETS FOUND DURING NECROPSY	DEAD	NA	NA
2010	1	9	1/9/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	1	12	1/12/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	SI	PACKING BAND OR MONOFILAMENT WRAPPED AROUND LOWER NECK	SI	P8A	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	1	12	1/12/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	1	23	1/23/2010	CALIFORNIA SEA LION	VESSEL STRIKE	SAN DIEGO	CA	SI	BOAT COLLISION, MULTIPLE LACERATIONS, BROKEN BONES, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P15	NA
					UNIDENTIFIED NET FISHERY							
2010	1	24	1/24/2010	CALIFORNIA SEA LION	ENTANGLEMENT	MONTEREY	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	1	27	1/27/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	BULLET HOLE IN HEAD	DEAD	NA	NA
2010	2	7	2/7/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	BULLET FOUND DURING NECROPSY	DEAD	NA	NA
2010	2	8	2/8/2010	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	SI	GILLNET ENTANGLEMENT, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	2	9	2/9/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	BULLET FOUND IN BRAIN CAVITY	DEAD	NA	NA
2010	2	10	2/10/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	BULLETS FOUND IN DORSAL MUSCLE	DEAD	NA	NA
2010	2	11	2/11/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	ORANGE	CA	SI	RUBBER BAND AROUND NECK, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	2	13	2/13/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	BULLET FRAGMENTS FOUND IN MUSCLE	DEAD	NA	NA
					UNIDENTIFIED NET FISHERY							
2010	2	14	2/14/2010	CALIFORNIA SEA LION	ENTANGLEMENT	LOS ANGELES	CA	SI	GILLNET-LIKE LACERATIONS AROUND CIRCUMFERENCE OF ANIMAL, DIED IN REHAB	DEAD	NA	NA
2010	2	14	2/14/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	BULLETS FOUND IN BRAIN	DEAD	NA	NA
2010	2	15	2/15/2010	CALIFORNIA SEA LION	VESSEL STRIKE	DEL NORTE	CA	SI	PROPELLOR WOUNDS ON ANIMAL, TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P15	NA
					HOOK & LINE FISHERY							
2010	2	18	2/18/2010	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	2	22	2/22/2010	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLETS CONFIRMED VIA RADIOGRAPH	DEAD	NA	NA
2010	2	23	2/23/2010	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLET HOLE AND SHRAPNEL FOUND	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	3	3/3/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	30	3/30/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	30	3/30/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	9	3/9/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	9	3/9/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	9	3/9/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	9	3/9/2010	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2010	3	8	3/8/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE AROUND NECK, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	3	12	3/12/2010	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLET FRAGMENT IN BRAIN CAVITY	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	3	17	3/17/2010	CALIFORNIA SEA LION	VESSEL STRIKE	SANTA BARBARA	CA	DEAD	VESSEL CREW FELT THE IMPACT OF THE SEA LION AND OBSERVED THE SINKING CARCASS	DEAD	NA	NA
2010	3	23	3/23/2010	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI	ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	3	24	3/24/2010	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	SHRAPNEL FOUND ON RADIOGRAPH	DEAD	NA	NA
2010	3	25	3/25/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	SI	PACKING BAND ENTANGLEMENT AROUND NECK, CUTTING INTO BLUBBER AND MUSCLE; OBSERVED SEVERAL TIMES BETWEEN MAY AND JULY	SI	P8A	NA
2010	3	25	3/25/2010	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	GILLNET AROUND HEAD THROUGH CORNERS OF MOUTH, ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	3	25	3/25/2010	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	BULLET TIP FOUND IN ABBESS ON LEFT CHEEK. SMALL HOLE IN FOREHEAD. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	3	26	3/26/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	3	28	3/28/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISHING LINE IN MOUTH. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	3	29	3/29/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN BACK. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	3	30	3/30/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	3	30	3/30/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	3	31	3/31/2010	CALIFORNIA SEA LION	CAR COLLISION	SAN DIEGO	CA	SI	EYE WITNESS ACCOUNT, ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	3	31	3/31/2010	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	GILLNET AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	3	31	3/31/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2010	4	6	4/6/2010	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	MULTIPLE PELLETS IN SKULL, LEFT EYE. ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	4	1	4/1/2010	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	FISH HOOK. RIGHT REAR FLIPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	4	3	4/3/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	4	3	4/3/2010	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	ORANGE	CA	SI	VOMITED UP PLASTIC MATERIAL	SI	P2	NA
2010	4	7	4/7/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	8	4/8/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	8	4/8/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	4	8	4/8/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	9	4/9/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	9	4/9/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	LOS ANGELES	CA	DEAD	ENTANGLEMENT WOUNDS AROUND CIRCUMFERENCE OF ANIMAL.	DEAD	NA	NA
2010	4	9	4/9/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	FRESH DEAD, ENTERED SCREEN BAY	DEAD	NA	NA
2010	4	10	4/10/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOKS IN LOWER LIP AND LEFT FRONT FLIPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	4	12	4/12/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	4	13	4/13/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	FISH HOOK IN RIGHT FRONT FLIPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	4	17	4/17/2010	CALIFORNIA SEA LION	GILLNET FISHERY	SAN DIEGO	CA	SI	GREEN NET ENTANGLED AROUND NECK WITH SEVERAL FEET OF NET TRAILING. ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	4	17	4/17/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN RIGHT SIDE OF MOUTH. ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	4	18	4/18/2010	CALIFORNIA SEA LION	VESSEL STRIKE	KING	WA	SI	ANIMAL DIED DURING OVERNIGHT OBSERVATION. BLUNT FORCE TRAUMA, CRUSHED STERNUM	DEAD	P15	NA
2010	4	20	4/20/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LINCOLN	OR	SI	SILVER COLORED FISHING LURE STUCK IN MOUTH WITH LONG LEADER ATTACHED	SI	P2	NA
2010	4	21	4/21/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN DIEGO	CA	SI	PLASTIC PACKAGING STRAP, ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	4	21	4/21/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN MOUTH. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	4	23	4/23/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	23	4/23/2010	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	GILLNET FRAGMENT EMBEDDED IN NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	4	25	4/25/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	25	4/25/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	25	4/25/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	26	4/26/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	26	4/26/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	26	4/26/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	MONTEREY	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	4	28	4/28/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	SI	ANIMAL DIED DURING TRANSPORTATION TO REHAB	DEAD	NA	NA
2010	5	26	5/26/2010	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2010	5	26	5/26/2010	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2010	5	4	5/4/2010	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2010	5	2	5/2/2010	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	OBVIOUS BULLET HOLE IN ABDOMENT	DEAD	NA	NA
2010	5	4	5/4/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	5	5	5/5/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LINE WRAPPED AROUND NECK.	SI	P8A	NA
2010	5	6	5/6/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	5	6	5/6/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	5	6	5/6/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	NSI	FLY FISH HOOK RIGHT SIDE OF BODY, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	5	6	5/6/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	5	6	5/6/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	5	8	5/8/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	MONTEREY	CA	SI	FISHING LINE AROUND NECK AND LACERATIONS FROM ENTANGLEMENT. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	5	9	5/9/2010	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	GREEN GILLNET AROUND NECK, CUTTING INTO SKIN 1 CM DEEP. ANIMAL DISENTANGLED, RELOCATED	NSI	P7B	NA
2010	5	10	5/10/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LINCOLN	OR	SI	OBSERVED SWIMMING WITH 12" ORANGE AND SILVER SALMON FLASHER HANGING FROM MOUTH	SI	P2	NA
2010	5	10	5/10/2010	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	BULLET FRAGMENT IN CHEST. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	5	11	5/11/2010	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	BULLET LODGED IN VERTEBRAL COLUMN. ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	5	11	5/11/2010	CALIFORNIA SEA LION	DOG ATTACK	SANTA BARBARA	CA	DEAD	NO DETAILS	DEAD	NA	NA
2010	5	12	5/12/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	MONTEREY	CA	SI	ANIMAL DISENTANGLED, RELOCATED	NSI	P7B	NA
2010	5	12	5/12/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	MONTEREY	CA	SI	ANIMAL DISENTANGLED, RELOCATED	NSI	P7B	NA
2010	5	14	5/14/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	FRESH DEAD	DEAD	NA	NA
2010	5	14	5/14/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	MULTIPLE FISH HOOKS ON BODY AND FLIPPERS. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	5	14	5/14/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	SI	THICK BLACK RUBBER BAND AROUND NECK. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	5	14	5/14/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	FISHING LINE AROUND NECK RESULTING IN DEEP LACERATION. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	5	15	5/15/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	MONTEREY	CA	SI	GREEN MONOFILAMENT NETTING WRAPPED AROUND NECK 2X AND THROUGH MOUTH. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	5	15	5/15/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN LUIS OBISPO	CA	SI	FISHING LINE AROUND NECK, CUTTING INTO TISSUE. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	5	15	5/15/2010	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	GREEN MONOFILAMENT CUTTING INTO NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	5	18	5/18/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	8 FISHHOOKS ON BODY AND FLIPPERS. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	5	20	5/20/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	SI	PLASTIC PACKING BAND HAD BEEN CUTTING INTO NECK; ANIMAL WAS HERDED WITH CROWDER BOARDS AND DISENTANGLED WITH KNIFE AT END OF POLE; BRIEFLY WENT TO WATER THEN RETURNED TO BEACH; WAS VERY THIN; REMAINED ON BEACH REST OF DAY	SI	P1	NA
2010	5	21	5/21/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN MATEO	CA	SI	MONOFILAMENT NET/LINE EMBEDDED IN NECK. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	5	25	5/25/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SANTA CRUZ	CA	SI	MONOFILAMENT NET/LINE AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	5	26	5/26/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	FISH HOOK IN MOUTH, 3 FISH HOOKS IN ESOPHAGUS. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	5	29	5/29/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	5	29	5/29/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	5	30	5/30/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	FISH HOOKS IN FRONT AND REAR FLIPPERS. LURE AND WEIGHT HANGING FROM MOUTH. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	5	31	5/31/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN TONGUE WITH LINE ATTACHED, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	5	31	5/31/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	FISHING LINE, HOOK, AND WEIGHT IN MOUTH. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	5	31	5/31/2010	CALIFORNIA SEA LION	SHOOTING	TILLAMOOK	OR	DEAD	BUCKSHOT PELLETS RECOVERED	DEAD	NA	NA
2010	6	2	6/2/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	6	2	6/2/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	6	2	6/2/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	6	2	6/2/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	6	4	6/4/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
					CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	6	5	6/5/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	HOOKS AND LINE WRAPPED AROUND REAR FLIPPERS. ANIMAL DISENTANGLED, RELEASED AT SITE	NSI	P5C	NA
2010	6	6	6/6/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN RIGHT SIDE OF MOUTH. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	6	8	6/8/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN DIEGO	CA	DEAD	ROPE AROUND NECK	DEAD	NA	NA
2010	6	8	6/8/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY ENTANGLEMENT	MONTEREY	CA	SI	GREEN NET ENTANGLED AROUND NECK AND HEAD. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	6	9	6/9/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	BULLET FRAGMENT COLLECTED, SKULL BLOWN AWAY	DEAD	NA	NA
2010	6	10	6/10/2010	CALIFORNIA SEA LION	STAB WOUNDS	LOS ANGELES	CA	SI	ANIMAL EUTHANIZED IN REHAB. KNIFE LACERATION.	DEAD	NA	NA
2010	6	10	6/10/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	FISH HOOK IN MOUTH. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	6	11	6/11/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	6	11	6/11/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2010	6	12	6/12/2010	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	XRAY, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	SI	P9	NA
2010	6	12	6/12/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	6	12	6/12/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	HOLE IN ANIMAL, ASSOCIATED HEMORRHAGING	DEAD	NA	NA
2010	6	13	6/13/2010	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	RELEASED AT SITE	SI	P8A	NA
2010	6	14	6/14/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISHING LINE, ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	6	15	6/15/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	NSI	FISH HOOK IN UPPER CHEST. DISENTANGLED, RELEASED AT SITE	NSI	P5C	NA
2010	6	15	6/15/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	6	15	6/15/2010	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	BULLET HOLE RIGHT SIDE OF NECK, FISH HOOK AND LINE IN MOUTH	DEAD	NA	NA
2010	6	18	6/18/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOKS ON LEFT SIDE OF FACE. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	6	18	6/18/2010	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA
2010	6	19	6/19/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	FISH HOOK IN LEFT FLANK, RELEASED AT SITE	NSI	P5C	NA
2010	6	24	6/24/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LINCOLN	OR	SI	LARGE SALMON FLASHER REPORTEDLY HANGING FROM MOUTH	SI	P2	NA
2010	6	25	6/25/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOKS. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	6	26	6/26/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	FISH HOOKS IN FRONT AND REAR FLIPPERS.	NSI	P5C	NA
2010	6	28	6/28/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISHING LINE AROUND NECK AND IN MOUTH. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	7	2	7/2/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	7	3	7/3/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	CLATSOP	OR	SI	FISHING LURE ATTACHED TO HEAD, THROAT	SI	P5B	NA
2010	7	11	7/11/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	FISH HOOK IN MOUTH, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	7	12	7/12/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE GOING DOWN THROAT. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	7	16	7/16/2010	CALIFORNIA SEA LION	VESSEL STRIKE	MONTEREY	CA	DEAD	EYE WITNESSES SAW BOAT HIT SEA LION	DEAD	NA	NA

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2010	7	20	7/20/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN RIGHT UPPER LIP INSIDE MOUTH AND LOWER LEFT INSIDE MOUTH, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	7	21	7/21/2010	CALIFORNIA SEA LION	BLUNT FORCE TRAUMA	LOS ANGELES	CA	SI	ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	7	25	7/25/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	HOOK IN LEFT HIND FLIPPER, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P5C	NA
2010	8	4	8/4/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	FISHING LINE & HOOKS: RIGHT LOWER LIP, ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	8	5	8/5/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	ANIMAL DIED IN REHAB. CAUSE OF DEATH, FISH HOOK PERFORATION OF ESOPHAGUS.	DEAD	NA	NA
2010	8	5	8/5/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	FISHING HOOK, LURE & LINE IN MOUTH. ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	8	20	8/20/2010	CALIFORNIA SEA LION	SHOOTING	SONOMA	CA	DEAD	SHOT FOUND AT BASE OF SKULL	DEAD	NA	NA
2010	8	20	8/20/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION	DEAD	NA	NA
2010	8	25	8/25/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION	DEAD	NA	NA
2010	8	30	8/30/2010	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	9	8	9/8/2010	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2010	9	9	9/9/2010	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2010	9	9	9/9/2010	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	GUNSHOT/PELLET IN MUSCLE AROUND SPINE. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	9	15	9/15/2010	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	SI	ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	9	15	9/15/2010	CALIFORNIA SEA LION	HARASSMENT	SAN FRANCISCO	CA	SI	~8" DART EMBEDDED IN FOREHEAD, NOT CAPTURED	SI	P9	NA
2010	9	18	9/18/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	9	20	9/20/2010	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	BULLET HOLE IN NECK	DEAD	NA	NA
2010	9	26	9/26/2010	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	9	29	9/29/2010	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	BULLET FOUND IN MESENTERY; APPEARS TO BE A .22 GAUGE, ANIMAL EUTHANIZED IN REHAB	DEAD	NA	NA
2010	10	1	10/1/2010	CALIFORNIA SEA LION	STAB WOUNDS	SAN DIEGO	CA	SI	WOUNDS FROM A FISHING GAFF INJURY. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.	NSI	P9	NA
2010	10	3	10/3/2010	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	SI	FOREIGN OBJECT VENTRAL TO C4-C5 VERTEBRAE ON RADIOGRAPHS, NOT REMOVED. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	10	5	10/5/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION	DEAD	NA	NA
2010	10	6	10/6/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	SI	WIDE BLACK STIFF RUBBER BELT AROUND NECK. DISENTANGLED, ANIMAL RELEASED AT SITE	NSI	P7B	NA
2010	10	10	10/10/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	HUMBOLDT	CA	SI	PLASTIC BAND 21.5 IN LONG AND 1/8 IN WIDE AROUND NECK. ANIMAL DIED IN REHAB.	DEAD	NA	NA
2010	10	11	10/11/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	10	11	10/11/2010	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	10	12	10/12/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	SI	SMALL BULLET HOLES (POSSIBLY FROM A .22 GUN) WITH ASSOCIATED HEMORRHAGING ON RIGHT ABDOMEN; THORACIC AREA HEMORRHAGE.	SI	P12	NA
2010	10	12	10/12/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	LOS ANGELES	CA	SI	GILLNET PRESENT AROUND NECK AND MISCELLANEOUS MONOFILAMENT PRESENT. ANIMAL DIED IN REHAB.	DEAD	NA	NA
2010	10	12	10/12/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	SMALL BULLET HOLES IN ABDOMEN	DEAD	NA	NA
2010	10	14	10/14/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM, RELEASED AT SITE	NSI	P9	NA
2010	10	26	10/26/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	ENTERED SCREEN BAY THROUGH INTAKE TUNNEL	DEAD	NA	NA
2010	11	3	11/3/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	MONTEREY	CA	SI	GREEN MONOFILAMENT NETTING AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.	NSI	P7B	NA
2010	11	5	11/5/2010	CALIFORNIA SEA LION	ENTANGLEMENT	TILLAMOOK	OR	DEAD	BULLET WOUNDS	DEAD	NA	NA
2010	11	6	11/6/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	BULLET WOUNDS	DEAD	NA	NA
2010	11	11	11/11/2010	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	BULLET WOUNDS	DEAD	NA	NA
2010	11	19	11/19/2010	CALIFORNIA SEA LION	SHOOTING	ORANGE	CA	SI	LINEAR LACERATION, LIKELY GAFF; 2 0.22 CALIBER BULLETS FOUND IN TISSUE, ONE BRASS AND ONE LEAD. ANIMAL EUTHANIZED IN REHAB.	DEAD	NA	NA
2010	11	21	11/21/2010	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	DEAD	MULTIPLE PELLETS AND A LARGE CALIBER BULLET FRAGMENT WERE FOUND IN HEAD DURING NECROPSY.	DEAD	NA	NA
2010	11	23	11/23/2010	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	BULLET WOUNDS	DEAD	NA	NA
2010	11	24	11/24/2010	CALIFORNIA SEA LION	UNIDENTIFIED NET FISHERY	VENTURA	CA	SI	GREEN MONOFILAMENT NETTING AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.	NSI	P7B	NA
2010	11	24	11/24/2010	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY	LOS ANGELES	CA	SI	SEVERE ENTANGLEMENT INJURY AROUND NECK; EVIDENCE OF OLD (HEALED) ENTANGLEMENT INJURY CAUSING SKULL DEFORMATION. ANIMAL DIED IN REHAB.	DEAD	NA	NA
2010	11	25	11/25/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM, ANIMAL EUTHANIZED IN REHAB.	DEAD	NA	NA
2010	11	26	11/26/2010	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	PELLETS FROM BB GUN IN SUBCUTANEOUS TISSUE AND SUPERFICIAL MUSCLES OF THE LEFT SHOULDER; 3 SMALL PATCHES OF OIL ON RIGHT ABDOMEN; ANIMAL OBSERVED IN VICINITY OF OIL SPILL. ANIMAL TREATED IN REHAB AND RELEASED.	NSI	P9	NA
2010	11	26	11/26/2010	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK IN LOWER RIGHT LIP. ANIMAL TAKEN TO REHAB, TREATED AND RELEASED.	NSI	P5C	NA
2010	11	27	11/27/2010	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM, RELEASED AT SITE	NSI	P9	NA
2010	12	8	12/8/2010	CALIFORNIA SEA LION	SHOOTING	MARIN	CA	SI	GUNSHOT - HEAD, LEFT SIDE OF FACE AND MUZZLE. ANIMAL TRANSFERRED TO PUBLIC DISPLAY.	CAPTIVITY	P9	NA
2010	12	23	12/23/2010	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MARIN	CA	SI	NYLON LINE EMBEDDED IN LIP; SOURCE (FISHERY/DEBRIS?) UNKNOWN	SI	P8A	NA
2010	12	29	12/29/2010	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY	LOS ANGELES	CA	SI	MONOFILAMENT LINE AROUND NECK. ANIMAL DIED IN REHAB	DEAD	NA	NA
2011	2	24	2/24/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	SI	HAD WHAT LOOKED LIKE A PLASTIC BAND WRAPPED TIGHTLY AROUND NECK AND CUTTING DEEPLY INTO TISSUE; ANIMAL MAY HAVE BEEN SHOWING DIFFICULTY BREATHING; ANIMAL WENT BACK INTO WATER AFTER BEING APPROACHED CLOSELY BY PASSERS-BY	SI	P8A	NA
2011	2	25	2/25/2011	CALIFORNIA SEA LION	SEAL BOMB	LOS ANGELES	CA	SI	DISLOCATED LOWER JAW. ANIMAL TAKEN INTO REHABILITATION. FINAL STATUS UNKNOWN	SI	P9	NA
2011	2	28	2/28/2011	CALIFORNIA SEA LION	GILLNET FISHERY	SAN DIEGO	CA	SI	MONOFILAMENT GILLNET AROUND NECK, CONSTRICTING. ANIMAL LETHARGIC, TRANSFERRED TO REHABILITATION. FINAL STATUS UNKNOWN.	SI	P8A	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
					UNIDENTIFIED NET FISHERY							
2011	3	12	3/12/2011	CALIFORNIA SEA LION	ENTANGLEMENT	SANTA BARBARA	CA	SI	YELLOW 'POLY' FISHING NET AROUND NECK	SI	P8A	NA
2011	3	13	3/13/2011	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	MONOFILAMENT NETTING AROUND NECK	SI	P8A	NA
					HOOK & LINE FISHERY							
2011	3	13	3/13/2011	CALIFORNIA SEA LION	FISHERY	MONTEREY	CA	SI	FISHING LINE AROUND NECK	SI	P8A	NA
					CA HALIBUT AND WHITE SEABASS SET GILLNET							
2011	3	17	3/17/2011	CALIFORNIA SEA LION	FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
					GILLNET FISHERY							
2011	3	21	3/21/2011	CALIFORNIA SEA LION	FISHERY	LOS ANGELES	CA	SI	GILLNET EMBEDDED IN NECK, TRANSFERRED TO REHABILITATION CENTER	SI	P8A	NA
					HOOK & LINE FISHERY							
2011	4	3	4/3/2011	CALIFORNIA SEA LION	FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH HOOK IN NOSTRIL. ANIMAL TAKEN INTO REHABILITATION FACILITY	SI	P5B	NA
					POWER PLANT ENTRAINMENT							
2011	4	10	4/10/2011	CALIFORNIA SEA LION	ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL RELEASED FROM COOLING WATER SYSTEM	NSI	P9	NA
2011	4	12	4/12/2011	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLET WOUNDS	DEAD	NA	NA
					HOOK & LINE FISHERY							
2011	4	16	4/16/2011	CALIFORNIA SEA LION	FISHERY	SANTA BARBARA	CA	SI	HUGE LURE IN MOUTH, BROKEN JAW.	SI	P5A, P10	NA
					HOOK & LINE FISHERY							
2011	4	17	4/17/2011	CALIFORNIA SEA LION	FISHERY	LOS ANGELES	CA	SI	THIN ANIMAL. FISHING LINE REMOVED FROM NECK	SI	P8A	NA
					HOOK & LINE FISHERY							
2011	4	18	4/18/2011	CALIFORNIA SEA LION	FISHERY	LOS ANGELES	CA	SI	THIN ANIMAL. FISH HOOKS EMBEDDED UNDER LEFT EYE, RIGHT LIP, LEFT AND RIGHT FLIPPERS; GUMBALL ABSCESS LOWER LEFT MUZZLE	SI	P5B	NA
					GILLNET FISHERY							
2011	4	18	4/18/2011	CALIFORNIA SEA LION	FISHERY	SANTA BARBARA	CA	SI	GILLNET, ANIMAL TAKEN INTO REHAB, FINAL STATUS UNKNOWN	SI	P8A	NA
					CA HALIBUT AND WHITE SEABASS SET GILLNET							
2011	4	20	4/20/2011	CALIFORNIA SEA LION	FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
					CA HALIBUT AND WHITE SEABASS SET GILLNET							
2011	4	21	4/21/2011	CALIFORNIA SEA LION	FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
					POWER PLANT ENTRAINMENT							
2011	4	21	4/21/2011	CALIFORNIA SEA LION	ENTRAINMENT	SAN DIEGO	CA	DEAD	SAN ONOFRE	DEAD	NA	NA
2011	4	21	4/21/2011	CALIFORNIA SEA LION	VESSEL STRIKE	MONTEREY	CA	DEAD	HIT BY CAR	DEAD	NA	NA
					POWER PLANT ENTRAINMENT							
2011	4	24	4/24/2011	CALIFORNIA SEA LION	ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
					AUTHORIZED REMOVAL							
2011	5	18	5/18/2011	CALIFORNIA SEA LION	REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
					POWER PLANT ENTRAINMENT							
2011	5	1	5/1/2011	CALIFORNIA SEA LION	ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FROM COOLING WATER SYSTEM OF POWER PLANT	DEAD	NA	NA
					POWER PLANT ENTRAINMENT							
2011	5	2	5/2/2011	CALIFORNIA SEA LION	ENTRAINMENT	LOS ANGELES	CA	NSI	LIVE ANIMAL RELEASED FROM COOLING WATER INTAKE	NSI	P9	NA
					GILLNET FISHERY							
2011	5	4	5/4/2011	CALIFORNIA SEA LION	FISHERY	LOS ANGELES	CA	SI	ENTANGLED IN GREEN GILL NET AROUND NECK; SEVERAL LACERATIONS THROUGH BLUBBER INTO MUSCLE LAYER. ANIMAL DIED DURING TRANSPORTATION TO REHAB.	DEAD	P8A	NA
					MARINE DEBRIS ENTANGLEMENT							
2011	5	8	5/8/2011	CALIFORNIA SEA LION	ENTANGLEMENT	LINCOLN	OR	SI	PLASTIC PACKING BAND CUTTING INTO NECK	SI	P8A	NA
					CA HALIBUT AND WHITE SEABASS SET GILLNET							
2011	5	10	5/10/2011	CALIFORNIA SEA LION	FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
					SHOOTING							
2011	5	14	5/14/2011	CALIFORNIA SEA LION	SHOOTING	ALAMEDA	CA	SI	RADIOGRAPHS DURING POST-MORTEM EXAMINATION SHOWED ~30 PELLETS OF DIFFERENT SIZES IN THE HEAD.	DEAD	P9	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	5	16	5/16/2011	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	THIN ANIMAL WITH FISH HOOKS IN LEFT REAR FLIPPER, LEFT FRONT FLIPPER, AND RIGHT FRONT FLIPPER, ANIMAL TRANSFERRED TO REHABILITATION, FINAL STATUS UNKNOWN	SI	P1	NA
2011	5	29	5/29/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SANTA CRUZ	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION. ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2011	5	31	5/31/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL CAUGHT AND RELEASED FROM COOLING WATER INTAKE AREA	NSI	P9	NA
2011	5	31	5/31/2011	CALIFORNIA SEA LION	GILLNET FISHERY	MONTEREY	CA	SI	ENTANGLED WITH FISHING NET ON FACE AND NECK, POSSIBLE CUT UNDER CHIN, MODERATELY UNDERWEIGHT. RELEASED AT PRNS ON 6/13/11. FOUND DEAD AT RODEO BEACH ON 7/6/11.	DEAD	P8A	NA
2011	6	3	6/3/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL CAUGHT AND RELEASED FROM COOLING WATER INTAKE AREA	NSI	P9	NA
2011	6	7	6/7/2011	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	MALNUTRITION, GILLNET LACERATION AROUND NECK	SI	P8A	NA
2011	6	10	6/10/2011	CALIFORNIA SEA LION	HOOK & LINE FISHERY	COOS	OR	SI	ORANGE/SILVER FLASHER WITH 1.5 FEET OF LINE ATTACHED TO MOUTH	SI	P2	NA
2011	6	13	6/13/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL CAUGHT AND RELEASED FROM COOLING WATER INTAKE AREA	NSI	P9	NA
2011	6	13	6/13/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL CAUGHT AND RELEASED FROM COOLING WATER INTAKE AREA	NSI	P9	NA
2011	6	14	6/14/2011	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	FISHING LURE IN BACK. ANIMAL SENT TO REHAB FACILITY	NSI	P5C	NA
2011	6	15	6/15/2011	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LETHARGIC, MODERATELY UNDERWEIGHT, MILDLY CONGESTED, ABRASION ON CHIN, UNRESPONSIVE TO CARS, BAD LOCATION - TRAFFIC HAZARD. RADIOGRAPHS SHOWED BUCKSHOT FRAGMENTS IN LEFT FRONT FLIPPER AND RIGHT REAR FLIPPER.	SI	P9	NA
2011	6	17	6/17/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	CLALLAM	WA	SI	SEA LION HAULED OUT WITH WHITE PLASTIC BAND OR FISHING LINE CUTTING INTO NECK. CUT WAS TOO DEEP TO DISCERN MATERIAL TYPE	SI	P8A	NA
2011	6	17	6/17/2011	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	HEAD BLOWN AWAY	DEAD	NA	NA
2011	6	20	6/20/2011	CALIFORNIA SEA LION	GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT	MARIN	CA	SI	MILDLY UNDERWEIGHT ANIMAL, DARK GREEN NYLON NET WRAPPED AROUND NECK AND HEAD, ENTANGLEMENT WAS LOOSE AND NOT CUTTING INTO THE SKIN OF THE ANIMAL. ALERT, ACTIVE, OPTED TO DISENTANGLE AND RELEASE AT SITE. ANIMAL INSTANTLY RETURNED TO OCEAN.	NSI	NA	NA
2011	6	21	6/21/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	ANIMAL DIED IN REHAB DUE TO GUNSHOT WOUND INJURIES	DEAD	P9	NA
2011	6	27	6/27/2011	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	6	27	6/27/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	ANIMAL CAUGHT IN SCREEN BAY AT POWER PLANT MONOFILAMENT GILLNET. ANIMAL TRANSFERRED TO REHABILITATION. FINAL STATUS UNKNOWN.	DEAD	NA	NA
2011	6	27	6/27/2011	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	THIN ANIMAL WITH OLD GILLNET SCAR AROUND NECK; LACERATION ALONG JAWLINE BELOW LEFT EYE; PUNCTURE WOUNDS ON LEFT CHIN. ANIMAL TRANSFERRED TO REHAB, FINAL STATUS UNKNOWN.	SI	P8A	NA
2011	6	28	6/28/2011	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	MONOFILAMENT GILLNET AROUND NECK. ANIMAL SENT TO REHAB, FINAL STATUS UNKNOWN.	SI	P8A	NA
2011	6	29	6/29/2011	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	SI	P8A	NA
2011	7	6	7/6/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI		NSI	P9	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	7	8	7/8/2011	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA CRUZ	CA	SI	PINK MONOFILAMENT ENTANGLEMENT AROUND NECK, SKIN BROKEN, 1 IN DEEP; MILDLY UNDERWEIGHT. ANIMAL TAKEN INTO REHAB, FINAL STATUS UNKNOWN.	SI	P8A	NA
2011	7	9	7/9/2011	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	CLALLAM	WA	DEAD	SIGNS OF HUMAN INTERACTION OBSERVED ; CAN OF SPRAY ARESOL FOUND IN THROAT OF SEA LION, APPEARED TO HAVE HOLES/POSSIBLE BITE MARKS AND BE CRUSHED INWARDS AS IF BITTEN. BASED ON DEPTH IN THROAT AND CONDITION OF CAN SUSPECT ANIMAL FOR HUMAN INTERACTION.	DEAD	NA	NA
2011	7	14	7/14/2011	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	GILL NET INJURY CIRCUMFERENTIAL 1-2 CM WIDE BY 1-2 CM DEEP DORSALLY; ACTIVE ONLY TO TOUCH; THIN ANIMAL. TAKEN TO REHAB FACILITY, FINAL STATUS UNKNOWN.	SI	P8A	NA
2011	7	17	7/17/2011	CALIFORNIA SEA LION	SHOOTING	GRAY'S HARBOR	WA	DEAD	BULLET FRAGMENT FOUND ON RADIOGRAPH	DEAD	NA	NA
2011	7	20	7/20/2011	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	SI	ANIMAL RELEASED ALIVE FROM GILLNET, NO TRAILING GEAR	NSI	P7B	NA
2011	7	25	7/25/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	VENTURA	CA	SI	ANIMAL DISENTANGLED FROM 'NETTING', TAKEN TO REHAB CENTER	NSI	P7B	NA
2011	7	28	7/28/2011	CALIFORNIA SEA LION	TRAWL FISHERY (UNKNOWN)	CLALLAM	WA	DEAD	TRIBAL FISHERY	DEAD	NA	NA
2011	8	2	8/2/2011	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LINCOLN	OR	SI	LARGE SILVER SALMON FLASHER STUCK TO MOUTH; ANIMAL APPEARS SOMEWHAT THIN, FLOATING GENERALLY MOTIONLESS AT SURFACE	SI	P2	NA
2011	8	3	8/3/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	NECROPSY RESULTS FOUND MULTIPLE GUNSHOTS; REMOVED 2 BULLETS AND 1 PELLET.	DEAD	P12	NA
2011	8	8	8/8/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	8	9	8/9/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	8	16	8/16/2011	CALIFORNIA SEA LION	GILLNET FISHERY	VENTURA	CA	DEAD	ENTANGLED IN PINK MONOFILAMENT GILL NET AROUND NECK AND BODY.	DEAD	NA	NA
2011	8	16	8/16/2011	CALIFORNIA SEA LION	SHOOTING	SANTA CRUZ	CA	SI	ON BEACH OVERNIGHT, GOOD BODY CONDITION, LETHARGIC. SMALL OOZING WOUND ON BACK. DIED IN REHAB. NECROPSY FINDINGS: TRAUMA. GUNSHOT. PNEUMONIA	DEAD	P12	NA
2011	8	17	8/17/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	COOS	OR	SI	APPEARS TO HAVE SEVERAL WRAPS OF LIGHT COLORED MATERIAL AROUND NECK, CUTTING INTO FLESH, DEBRIS ENTANGLEMENT; REPORTED AS "TUNA CABLE", REPORTED AGAIN ON 8/20, SWIMMING UNDER OBF DOCK	SI	P8A	NA
2011	8	17	8/17/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	TEMPERATURE 99.0 F; FISH HOOK IN LEFT CHEEK; MULTIPLE PUNCTURE WOUNDS CONSISTENT WITH GUNSHOT; FIRM NODULE LEFT LATERAL/VENTRAL NECK	SI	P12	NA
2011	8	22	8/22/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	9	1	9/1/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	GUNSHOT RIGHT SHOULDER. RED WAXY PAINT OR GREASE MARKER ON ABDOMEN; RESPIRATION LABORED AND INCREASED; ABDOMEN DISTENDED; NOT USING REAR FLIPPERS. FINAL OUTCOME UNKNOWN.	SI	P9	NA
2011	9	4	9/4/2011	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	LETHARGIC, PUNCTURE NEAR SPINE, MODERATELY UNDERWEIGHT. GUNSHOT ON DORSAL SIDE OF ANIMAL, BULLET FRAGMENTS WERE COLLECTED. ANIMAL WAS EUTHANIZED IN REHAB	DEAD	P9	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	9	9	9/9/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	DOUGLAS	OR	SI	INFECTED WOUND CAUSED BY IMBEDDED BAND AROUND LOWER PORTION ON NECK, LARGE FLAP OF FLESH HANGING FREE UNDER THE NECK (~1 FOOT LONG), IT APPEARS TO BE HAVING A DIFFICULT TIME LIFTING IT'S HEAD AND WALKING BUT IS VERY ACTIVE; WAS GONE NEXT DAY	SI	P8A	NA
2011	9	9	9/9/2011	CALIFORNIA SEA LION	RESEARCH ENTANGLEMENT	OFFSHORE	CA	DEAD	A MALE CALIFORNIA SEA LION WAS ACCIDENTALLY CAPTURED AND DROWNED IN A SURFACE TRAWL FOR JUVENILE SALMON AS PART OF JUVENILE SALMON OCEAN SURVEY.	DEAD	NA	NA
2011	9	11	9/11/2011	CALIFORNIA SEA LION	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	GREEN MONOFILAMENT NETTING AROUND NECK, BLEEDING, EMACIATED	SI	P1 AND P8A	NA
2011	9	12	9/12/2011	CALIFORNIA SEA LION	RESEARCH ENTANGLEMENT	SOLANO	CA	NSI	SEA LION WAS ENTANGLED AT THE SURFACE OF A RESEARCH NET, TAKING CHINOOK SALMON FROM THE NET. AFTER BEING RELEASED, THE SEA LION WAS OBSERVED SWIMMING AROUND THE BOAT AND APPEARED UNHARMED	NSI	P7B	NA
2011	9	15	9/15/2011	CALIFORNIA SEA LION	RESEARCH ENTANGLEMENT	SOLANO	CA	NSI	A SEA LION BECAME ENTANGLED IN THE NET DURING A STURGEON TAGGING PROJECT. SEA LION WAS RELEASED FROM THE NET WHEN BROUGHT TO THE STERN OF THE BOAT WITHOUT HAVING TO CUT THE NET, THE NET WAS ONLY WRAPPED ONCE AROUND THE SEA LION. THE SEA LION IMMEDIATELY SWAM AWAY AND APPEARED TO BE IN GOOD CONDITION. THE SEA LION WAS OBSERVED TAKING CHINOOK SALMON FROM THE NET.	NSI	P7B	NA
2011	9	15	9/15/2011	CALIFORNIA SEA LION	RESEARCH ENTANGLEMENT	SOLANO	CA	NSI	SEA LION BECAME ENTANGLED IN THE NET AND WAS DISENTANGLED AFTER 5 MINUTES. HE WAS REMOVED FAIRLY EASILY WITHOUT HAVING TO CUT THE NET. THE SEA LION APPEARED TO BE IN GOOD CONDITION AND IMMEDIATELY SWAM AWAY AFTER BEING RELEASED. THE SEA LION WAS OBSERVED TAKING CHINOOK SALMON FROM THE NET.	NSI	P7B	NA
2011	9	15	9/15/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	BOTH EYES MISSING, THIN. METAL FRAGMENTS IN EYE SOCKET SUGGEST GUNSHOT TRAUMA.	DEAD	P9	NA
2011	9	18	9/18/2011	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	LETHARGIC, WEAK, MODERATELY UNDERWEIGHT. RADIOGRAPHS SHOWED BULLET FRAGMENT IN DORSAL ASPECT OF LEFT FRONT FLIPPER, REMOVED DURING POST-MORTEM EXAMINATION	DEAD	P9	NA
2011	9	20	9/20/2011	CALIFORNIA SEA LION	RESEARCH ENTANGLEMENT	SOLANO	CA	DEAD	DROWNED IN SCIENTIFIC RESEARCH NET	DEAD	NA	NA
2011	9	21	9/21/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SONOMA	CA	SI	EMACIATED, LETHARGIC, SUSPECTED FORMER ENTANGLEMENT AROUND NECK; EUTHANIZED IN REHAB, LEPTOSPIROSIS, CHRONIC DOMOIC ACID	DEAD	P8A	NA
2011	9	25	9/25/2011	CALIFORNIA SEA LION	VESSEL STRIKE	MONTEREY	CA	SI	HIT BY A CAR AROUND MIDNIGHT. HEAD TRAUMA, JAW INJURY, BLEEDING FROM MOUTH AND GURGLING. EUTHANIZED.	DEAD	P9	NA
2011	9	25	9/25/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	VERY THIN; WARM TO TOUCH; NOT MOVING FROM HIP REGION DOWN; BLEEDING FROM LEFT EAR; RIGHT EAR RED; MINOR ABRASIONS ON REAR FLIPPERS. NECROPSIED.	DEAD	P9	NA
2011	9	28	9/28/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	CLATSOP	OR	DEAD	A COUPLE OF SUPERFICIAL ROPE-LIKE MARKS ON FOREFLIPPER AND VENTRAL ABDOMEN. ANIMAL WAS EMACIATED; MUSCLE SIGNIFICANTLY REDUCED; BOTH LUNGS "MEATY", FLATTENED, AND VERY CONGESTED; HEART SEEMED SMALL WITH ENLARGED AURICLES; PULMONARY ARTERY VERY ENLARGED; KIDNEY VESSELS ENGORGED WITH BLOOD	DEAD	NA	NA

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2011	9	28	9/28/2011	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	APPEARS TO BE BLIND IN RIGHT EYE; 4 SHOTS BETWEEN EYES, ONE CLOSE TO RIGHT EYE, TWO OVER NOSE, SCRAPE ON UNDERSIDE OF RIGHT FRONT FLIPPER TIP; RAW EDGE ON RIGHT REAR FLIPPER	DEAD	P9	NA
2011	10	1	10/1/2011	CALIFORNIA SEA LION	SHOOTING	SAN MATEO	CA	SI	BULLET BEHIND LEFT EYE, UNALIGNED JAW, AND GOOD BODY CONDITION	DEAD	P9	NA
2011	10	4	10/4/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	10	4	10/4/2011	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	LETHARGIC, GOOD BODY CONDITION, MULTIPLE SMALL ROUND WOUNDS ON FACE. RADIOGRAPHS SHOWED GUNSHOT TO THE HEAD, PELLET REMOVED FROM RIGHT SIDE OF FACE. TEMPORARILY HOUSED 11/3-23/11 AT LML FOR COGNITIVE ASSESSMENT. RADIOGRAPHS & MRI SHOWED GAS BUBBLES IN CEREBELLUM & CEREBRUM.	SI	P9	NA
2011	10	7	10/7/2011	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	EMACIATED; SEVERE CUT UNDER JAW FROM GILL NET; LEFT EYE INJURED; BREATHING THROUGH LACERATION	SI	P1	NA
2011	10	7	10/7/2011	CALIFORNIA SEA LION	VESSEL STRIKE	MONTEREY	CA	DEAD	MIDDLE OF ROAD, HIT BY CAR, DEAD WHEN RESCUE TEAM ARRIVED	DEAD	NA	NA
2011	10	13	10/13/2011	CALIFORNIA SEA LION	GILLNET FISHERY	SAN DIEGO	CA	SI	ACTIVE SUB-ADULT WITH FISHING NET DEEPLY CUTTING INTO NECK	SI	P8A	NA
2011	10	14	10/14/2011	CALIFORNIA SEA LION	VESSEL STRIKE	CLATSOP	OR	DEAD	VERTEBRA DISLOCATED WITH ASSOCIATED NECROSIS	DEAD	NA	NA
2011	10	14	10/14/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	10	23	10/23/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	23	10/23/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	23	10/23/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	25	10/25/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	10	27	10/27/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	27	10/27/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	27	10/27/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	27	10/27/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	29	10/29/2011	CALIFORNIA SEA LION	VESEL STRIKE	CLATSOP	OR	DEAD	TREMENDOUS HEMORRHAGING	DEAD	NA	NA
2011	10	31	10/31/2011	CALIFORNIA SEA LION	SHOOTING	SAN FRANCISCO	CA	SI	SEIZURES, GOOD BODY WEIGHT, GUNSHOT TO SPINE, EUTHANIZED. NECROPSY PERFORMED.	DEAD	P9	NA
2011	11	8	11/8/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	11	13	11/13/2011	CALIFORNIA SEA LION	HOOK & LINE FISHERY	MONTEREY	CA	SI	LOOSE FISHING LINE ENTANGLEMENT AROUND THE NECK NOT CUTTING INTO SKIN, LETHARGIC, COUGHING, MILDLY UNDERWEIGHT	SI	P1	NA
2011	11	15	11/15/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	CLATSOP	OR	DEAD	ROPE LIKE MARKS ON LEFT VENTRAL PELVIC REGION	DEAD	NA	NA
2011	11	17	11/17/2011	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	SI	ANIMAL THIN BUT ALERT WHEN FIRST OBSERVED ABSCESS ON DORSAL HINDQUARTERS (NEAR BULLET HOLE); EDEMA IN ABDOMINAL WALL; SCROTUM AND VENTRAL HIND LIMB AREA SWOLLEN; TUMORS BETWEEN KIDNEYS; LEFT KIDNEY HIGHLY COMPROMISED; PANCREAS-ASSOC. TUMORS ALSO PRESENT; LUNGS ABNORMAL	DEAD	P9	NA
2011	11	19	11/19/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	11	26	11/26/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	11	26	11/26/2011	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	12	5	12/5/2011	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT CA SWORDFISH DRIFT GILLNET	MONTEREY	CA	DEAD	OLD ENTANGLEMENT SCAR AROUND NECK. PINK SCAR ON FLIPPER. ANIMAL LEFT ON BEACH, FINAL OUTCOME UNKNOWN.	DEAD	NA	NA
2011	12	17	12/17/2011	CALIFORNIA SEA LION	FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	12	18	12/18/2011	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLET FOUND IN SKULL	DEAD	NA	NA
2011	12	19	12/19/2011	CALIFORNIA SEA LION	VESEL STRIKE	PACIFIC	WA	DEAD	PROPELLER MARKS	DEAD	NA	NA
2011	12	30	12/30/2011	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	3	1/3/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT	DEAD	NA	NA
2012	1	5	1/5/2012	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT GILLNET AROUND NECK. TRANSFERRED TO REHAB FACILITY, TREATED AND RELEASED. ROTOTAG NUMBER 17883	NSI	NA	NA
2012	1	15	1/15/2012	CALIFORNIA SEA LION	SHOOTING	MONTEREY	CA	SI	EUTHANIZED IN REHABILITATION FACILITY. NECROPSY PERFORMED	DEAD	P9	NA
2012	1	22	1/22/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	1	25	1/25/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	THIN; FISHING LINE AND HOOKS IN MOUTH; FISHING LINE UNDER RIGHT REAR FLIPPER; MUCOUS MEMBRANES WHITE. TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ORANGE ROTOTAG 26132.	NSI	P5A	NA
2012	1	12	1/12/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	13	1/13/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	18	1/18/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	18	1/18/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	19	1/19/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	19	1/19/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	9	1/9/2012	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	SI	SHOTGUN PELLET FOUND AT RIGHT VENTRAL MANDIBLE, METAL SHARD FOUND AT LEFT LOWER EYELID; THREE LARGE TUMORS LOCATED BETWEEN KIDNEYS, DIED ON 1/11/2012.	DEAD	P9	NA
2012	1	9	1/9/2012	CALIFORNIA SEA LION	SHOOTING	GRAY'S HARBOR	WA	DEAD	GUNSHOT TRACKING THROUGH RIGHT SIDE ORF HEAD, HYOID, BROKEN BONE, PERFORATED ESOPHAGUS, AND SHARDS OF BULLET FOUND BEHIND RIGHT EAR.	DEAD	NA	NA
2012	1	13	1/13/2012	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	BULLETS #1 AND #2, BOTH TRACKING IN FROM RIGHT SIDE OF THE HEAD AND INTO THE SKULL.	DEAD	NA	NA
2012	1	23	1/23/2012	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	TRACKING WOUND ENTERING INTO THORACIC CAVITY AND INTO LUNGS, FOUND BULLET IN LEFT LOBE OF LUNGS. RADIOGRAPHS SHOWED TWO BULLETS IN SKULL, BOTH FOUND UPON INTERNAL EXAMINATION OF SKULL. TWO TRACKING GUNSHOT WOUNDS FROM DORSAL SIDE OF HEAD AND NECK.	DEAD	NA	NA
2012	1	28	1/28/2012	CALIFORNIA SEA LION	SHOOTING	THURSTON	WA	DEAD		DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	2	5	2/5/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	SCATTERGOOD GENERATING STATION. ANIMAL ENTERED THROUGH INTAKE TUNNEL	DEAD	NA	NA
2012	2	5	2/5/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	SCATTERGOOD GENERATING STATION. ANIMAL ENTERED THROUGH INTAKE TUNNEL	DEAD	NA	NA
2012	2	11	2/11/2012	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	XRAY SHOWED ONE 22-CALIBER BULLET FROM RIFLE. REMOVED FROM LEFT FRONT SHOULDER BLADE.; THIN, INJURED LEFT FRONT FLIPPER. 6IN LONG X 3IN WIDE WOUND. GUNSHOT WOUND FOUND IN XRAY. TAGGED WITH ORANGE ROTOTAG #20373 PRIOR TO RELEASE FROM SEA WORLD REHAB FACILITY	NSI	P9	NA
2012	2	12	2/12/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	THIN; FISH HOOKS - ONE LEFT SHOULDER, TWO IN MOUTH; WOUND LOWER ABDOMEN; WOUND CENTER OF SHOULDERS; MUCOUS MEMBRANES PALE AND WHITE. TAGGED AND RELEASED WITH ORANGE ROTOTAG #26148 FOLLOWING TREATMENT AT FORT MACARTHUR MARINE MAMMAL REHAB FACILITY.	NSI	P5A	NA
2012	2	15	2/15/2012	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	ANIMAL EUTHANIZED IN REHABILITATION FACILITY. XRAY SHOWED FIVE BUCKSHOTS FROM SHOTGUN. BULLETS GRAZED EYE AND FOUND INSIDE HEAD CAVITY. ONE REMOVED DURING NECROPSY.; GOOD WEIGHT, INJURED LEFT EYE. GUNSHOT SHOWN IN XRAY.; COD: ACUTE NECROTIZING TUBULONEPHRITIS ? LEPTOSPIROSIS; GUNSHOT WOUND	DEAD	P9	NA
2012	2	20	2/20/2012	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	TEMPERATURE 102.1 F; FIRM NODUALS ON CAUDAL ABDOMEN; SKIN LESIONS; BUMPS AND HOLE CONSISTENT WITH PELLET/GUNSHOT; BLIND RIGHT EYE; CONGESTED. TREATED AND RELEASED FROM REHAB FACILITY, TAGGED WITH ORANGE ROTOTAG #26149	NSI	P9	NA
2012	2	29	2/29/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	ANIMAL TAKEN INTO REHAB FACILITY AND DIED. THIN; DEEP WOUND CIRCUMFERENTIAL WITH BLEEDING CAUSED BY FISHING LINE; RUSTY FISH HOOK IN RIGHT FRONT FLIPPER; COUGHING; SEVERE RESPIRATORY DISTRESS; CAUSE OF DEATH HUMAN INTERACTION, FISHING LINE ENTANGLEMENT, HOOK.	DEAD	P8A	NA
2012	2	2	2/2/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	2	10	2/10/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	2	10	2/10/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	2	15	2/15/2012	CALIFORNIA SEA LION	GILLNET FISHERY	TILLAMOOK	OR	DEAD	LINEAR CREASE MARKS OVER VENTRAL PELVIC REGION, GASH IN RIGHT AXIALARY, SUGGESTIVE OF FISHERY ENTANGLEMENT	DEAD	NA	NA
2012	2	4	2/4/2012	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	SMALL BULLET HOLE AT RIGHT ANTERIOR FLIPPER; HEAD GONE.	DEAD	NA	NA
2012	2	26	2/26/2012	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	INTERNAL AND EXTERNAL EXAM OF SKULL PERFORMED, ONE BULLET FOUND, ENTERING LEFT ABOVE AND SLIGHTLY ANTERIOR TO LEFT EAR PINNAE. BULLET TRACKS THROUGH SKULL AND BRAIN CAVITY	DEAD	NA	NA
2012	3	9	3/9/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN FRANCISCO	CA	SI	YELLOW PACKING STRAP EMBEDDED IN NECK, GOOD BODY CONDITION, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. FIRST OBSERVED ENTANGLED IN JULY 2011.	NSI	P7B	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	3	9	3/9/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	FISHING CABLE AND HOOK IN MOUTH. REMOVED BY TEAM AND RELEASED AT SITE.	NSI	P5C	NA
2012	3	12	3/12/2012	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	GILLNET FRAGMENT AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ORANGE ROTOTAG #26259.	NSI	P7B	NA
2012	3	13	3/13/2012	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	THIN; MULTIPLE PUNCTURES-LEFT FLIPPER/SHOULDER-CHARACTERISTIC OF PELLETS/BULLETS INTRUSION; LEFT REAR FLIPPER CUTS DORSALLY AND VENTRALLY; MUCOUS MEMBRANES PALE. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. ORANGE ROTOTAG #26151 APPLIED.	NSI	P9	NA
2012	3	15	3/15/2012	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	GILLNET FRAGMENT AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ROTOTAG # 17890	NSI	P7B	NA
2012	3	20	3/20/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM, RELEASED ALIVE TO BEACH.	NSI	P9	NA
2012	3	24	3/24/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM, RELEASED ALIVE TO BEACH.	NSI	P9	NA
2012	3	25	3/25/2012	CALIFORNIA SEA LION	HARASSMENT	DEL NORTE	CA	NSI	ANIMAL PREVIOUSLY TAGGED (ORANGE ROTOTAG 27261 LEFT FRONT FLIPPER), RESTRANDED AND WAS BEING FED BY PUBLIC. ANIMAL TRANSFERRED TO CAPTIVE FACILITY. FINAL STATUS TREATED AS 'DEAD' BECAUSE ANIMAL WAS REMOVED FROM WILD POPULATION.	DEAD	P9	NA
2012	3	25	3/25/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	THIN, DEHYDRATED. FIVE FISH HOOKS REMOVED FROM STOMACH AREA. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED WITH ORANGE ROTOTAG #20386.	NSI	P5C	NA
2012	3	8	3/8/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	3	12	3/12/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	3	1	3/1/2012	CALIFORNIA SEA LION	SHOOTING	KING	WA	DEAD	EXTERNAL AND LIMITED INTERNAL EXAM FOUND BULLET FRAGMENT LODGE IN LOWER JAW, ENTRY WOUND JUST IN FRONT OF RIGHT EAR. STOMACH HAD PARTIALLY DIGESTED FISH.	DEAD	NA	NA
2012	3	2	3/2/2012	CALIFORNIA SEA LION	SHOOTING	PIERCE	WA	DEAD	TRACKING WOUND BEHIND THE EAR FOUND BULLET JUST OUTSIDE THE RIGHT SIDE BACK OF SKULL.	DEAD	NA	NA
2012	4	12	4/12/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	25	4/25/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	25	4/25/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	25	4/25/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	4	25	4/25/2012	CALIFORNIA SEA LION	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO SHEDD AQUARIUM.	CAPTIVITY	NA	NA
2012	4	3	4/3/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	3	4/3/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	30	4/30/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	30	4/30/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	9	4/9/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	4	1	4/1/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	SI	PACKING STRAP AND FISH LINE CIRCUMFERENTIAL WOUND AROUND NECK - 3 CM DEEPLY EMBEDDED. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ORANGE ROTOTAG #26279.	NSI	P8A	NA
2012	4	2	4/2/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	ENTANGLEMENT AROUND HEAD NEAR EARS. NO DETAILS ON TYPE OF MATERIAL. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.	NSI	P8A	NA
2012	4	12	4/12/2012	CALIFORNIA SEA LION	PUBLIC RESCUE	DEL NORTE	CA	SI	UNDERWEIGHT ANIMAL ON PORCH OF PEBBLE BEACH RESIDENT BROUGHT TO REHAB CENTER BY MEMBER OF THE PUBLIC. ANIMAL WAS TREATED AND RELEASED. THIS WAS A RESTRAND OF ROTOTAG #7522, MAY REPRESENT HABITUATION.	NSI	P9	NA
2012	4	12	4/12/2012	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	THIN, DEHYDRATED. SWOLLEN LEFT REAR FLIPPER. RIFLE BULLET IN RIGHT HIP JOINT. FOUND DURING XRAY. EXTRACTED BULLET. FISH HOOK IN CHEST. ANIMAL RELEASED AND TAGGED WITH ORANGE ROTOTAG #20423.	NSI	P9	NA
2012	4	14	4/14/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	4	15	4/15/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. RELEASED TO BEACH WITHOUT INJURIES. PHOTOS TAKEN.	NSI	P9	NA
2012	4	19	4/19/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	4	20	4/20/2012	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	PREGNANT; PRESUMPTIVE DOMOIC ACID TOXICOSIS. EXTREMELY LETHARGIC. ON MAY 4, 2012 XRAY SHOWED PELLETS FROM SHOTGUN IN CHEST AREA. TREATED IN REHAB, TAGGED AND RELEASED WITH ROTOTAG #20410.	NSI	P9	NA
2012	4	30	4/30/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	4	11	4/11/2012	CALIFORNIA SEA LION	SHOOTING	MASON	WA	DEAD	6 PELLETS FOUND IN TISSUE ON TOP OF HEAD AND RIGHT SIDE OF ROSTRUM. TISSUE HAD HEALED OVER, NO HEMORRHAGE OR TRACKING WOUNDS, DID NOT PENETRATE SKULL. NOT CAUSE OF MORTALITY.	DEAD	NA	NA
2012	4	7	4/7/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	BULLET ENTRANCE/EXIT HOLES IN HEAD.	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	4	25	4/25/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	BULLET COLLECTED FROM STOMACH	DEAD	NA	NA
2012	5	16	5/16/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	5	16	5/16/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	5	5	5/5/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	SCATTERGOOD GENERATING STATION - LADWP CIRCULATING WATER SCREEN BAY (ENTERED THROUGH INTAKE TUNNEL).	DEAD	NA	NA
2012	5	6	5/6/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	XRAY SHOWED THAT ANIMAL SWALLOWED LARGE FISHING HOOK. THIN, DEHYDRATED. XRAY SHOWED INTERNAL DAMAGE. ANIMAL EUTHANIZED IN REHAB FACILITY.	DEAD	P2	NA
2012	5	10	5/10/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE EMBEDDED AROUND NECK. THIN, DEHYDRATED. ANIMAL TAKEN INTO REHAB AND DIED. EMBEDDED FISHING LINE WITH BACTERIAL MYOSITIS.	DEAD	P8A	NA
2012	5	11	5/11/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. RELEASED TO BEACH.	NSI	P9	NA
2012	5	11	5/11/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN RIGHT FLIPPER WITH ASSOCIATED ABCESS, ANIMAL DEHYDRATED. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ORANGE ROTOTAG LEFT FRONT FLIPPER # 22313.	NSI	P5C	NA
2012	5	15	5/15/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	MULTIPLE FISH HOOKS FOUND IN XRAY. 2 INTERNAL AND 1 ON SIDE. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ORANGE ROTOTAG #20430.	NSI	P5C	NA
2012	5	21	5/21/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	5	28	5/28/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	5	30	5/30/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA CRUZ	CA	SI	SALMON LURE HOOKED IN MOUTH, ANIMAL BARELY BREATHING, HEAD SWAY, PALE GUMS, EYES ROLLED IN THE BACK OF ITS HEAD. ANIMAL DIED DURING TRANSPORT TO REHAB FACILITY.	DEAD	NA	NA
2012	5	7	5/7/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	SI	MARINE DEBRIS; PACKING BAND, HAS TIGHT LIGATURE AROUND NECK FROM APPARENT PLASTIC PACKING BAND; ANIMAL IS QUITE ROBUST, APPEARS TO BE CHRONIC INJURY.	SI	P8A	NA
2012	5	7	5/7/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	COLUMBIA	OR	SI	FISHING LURE HOOKED IN MOUTH, ACCORDING TO CALLER, "LOOKS TRAUMATIZED"; LARGE THIN LURE HOOKED IN MOUTH"; FINAL DISPOSITION UNKNOWN.	SI	P5A	NA
2012	5	30	5/30/2012	CALIFORNIA SEA LION	SHOOTING	CLALLAM	WA	DEAD	BULLET HOLE AND TRACKING WOUND ADJACENT TO RIGHT EYE, BLOOD COMING OUT OF WOUND. DID NOT PERFORM COMPLETE NECROPSY. ANIMAL VERY HEALTHY BODY CONDITION. ~6CM BLUBBER THICKNESS.	DEAD	NA	NA
2012	5	4	5/4/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	HEMORRHAGE IN HEAD AND BODY; POSSIBLE BULLET HOLES THROUGH BODY CAVITY; LUNGS VERY FIRM, CONGESTED, AND CONTAINED A MODERATE TO HEAVY AMOUNT OF LOOSE BLACK FLECKS (DECOMPOSED ENCYSTED PARASITES?). SHOT IN HEAD (BULLET COLLECTED).	DEAD	NA	NA
2012	5	4	5/4/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	TWO SUSPICIOUS HOLES (BULLET?) AT LEFT ANTERIOR SHOULDER, BULLET LODGED IN LEFT PARIETAL; SKULL COMPLETELY EXPOSED; MANDIBLES GONE.	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	6	4	6/4/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	NSI	SHALLOW CIRCUMFERENTIAL PACKING STRAP INJURY AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED WITH ORANGE ROTOTAG #26257.	NSI	P8A	NA
2012	6	7	6/7/2012	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT GILLNET AROUND NECK, ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED WITH ROTOTAG #17918.	NSI	P8A	NA
2012	6	28	6/28/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	ENTANGLEMENT CUT INTO NECK - NO ENTANGLEMENT DEBRIS, LETHARGIC, ON DRIVE-ON BEACH, EMACIATED. ANIMAL TAKEN TO REHAB FACILITY, TREATED AND RELEASED.	NSI	P8A	NA
2012	6	24	6/24/2012	CALIFORNIA SEA LION	RESEARCH LONGLINE HOOKING	OFFSHORE	CA	NSI	A CALIFORNIA SEA LION WAS HOOKED IN THE LIP DURING THE SHARK LONGLINE SURVEY AND WAS BROUGHT TO THE VESSEL IN EXCELLENT CONDITION. BECAUSE IT WAS VERY ACTIVE, FOR THE SAFETY OF THE CREW AND SCIENTISTS, THE ANIMAL WAS NOT RAISED OUT OF THE WATER ON THE SHARK CRADLE TO REMOVE THE HOOK. RATHER A LONG HANDLED CUTTER WAS USED TO CUT THE LEADER AS CLOSE TO THE ANIMAL AS POSSIBLE, WITHIN LESS THAN ONE FOOT FROM THE HOOK. THE TIME AT WHICH THE SEA LION WAS BROUGHT TO THE VESSEL AND RELEASED WAS 00:40 GMT. THE SEA LION SWAM AWAY VIGOROUSLY. WHILE THE SEA LION DID NOT APPEAR TO BE OTHERWISE INJURED, THE INFORMATION ABOVE INDICATES IT WAS RELEASED INJURED DUE TO THE HOOK. THE HOOKS USED ARE NOT STAINLESS AND THE EYE WILL LIKELY RUST OUT WITHIN DAYS DROPPING THE LEADER IF THE HOOK DOES NOT FALL OUT FIRST.	NSI	P5B	NA
2012	6	1	6/1/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	COOS	OR	SI	MARINE DEBRIS, LINE OR ROPE AROUND NECK/BODY; CUTTING IN A BIT, SOME SCARRING; LOOKS LIKE "NATURAL FIBER, BRAIDED" ROPE.	SI	P8A	NA
2012	6	5	6/5/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	COOS	OR	SI	MARINE DEBRIS, WIRE OR OTHER MATERIAL WRAPPED TIGHTLY AROUND NECK.	SI	P8A	NA
2012	6	30	6/30/2012	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY INTERACTION	CLALLAM	WA	DEAD	DEAD SEA LION ON NORTH SIDE TIP OF WAADAH ISLAND WAS INITIALLY REPORTED BY PHONE ON 6/30/12. RP DESCRIBED SEA LION AS LARGE, DARK BROWN TO BLACK FUR. ON 7/1/12, AA WENT PAST IN BOAT AND CONFIRMED BUT WAS UNABLE TO LAND DUE TO SEA CONDITIONS. IN AM ON 7/2/12, AA AND PG FROM NMML APPROACHED ISLAND WITH R/V RESEARCH 3 AND AA LANDED ON ISLAND FOR EXAM AND MEASUREMENTS. AT EXAM, SKULL HAD ALREADY BEEN CUT OFF, CARCASS APPEARED SLIGHTLY BLOATED, AND FAT WAS LEACHING THROUGH SKIN AND COLLECTING ON BODY, NO SCAVENGING APPARENT. AA CUT OPEN ABDOMEN TO ENCOURAGE SCAVENGERS. EVIDENCE OF HUMAN INTERACTION: EXTERNAL EXAM ONLY. SIGNS OF HUMAN INTERACTION: SKULL CUT OFF OF CARCASS. ANIMAL APPEARED IN EXCELLENT BODY CONDITION (BASED ON EXTERNAL EXAM - VERY FAT, LOTS OF BLUBBER, FAT LEACHING FROM CARCASS). IT IS POSSIBLE THAT ANIMAL COULD HAVE BEEN SHOT BUT NO EVIDENCE DUE TO NO INTERNAL EXAM CONDUCTED (DUE TO CARCASS CONDITION AND LOCATION) AND NO SKULL ATTACHED.	DEAD	NA	NA

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2012	6	1	6/1/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	ANIMAL HAD EXCELLENT BODY CONDITION; CLEARLY SHOT IN NECK THREE TIMES, WITH ONE BULLET TRACK GOING THROUGH PERICARDIUM; EYES BLOOD-FILLED; HEMORRHAGE ON HEAD, BODY, AND SOME ORGANS; BLOODY FLUID IN ABDOMINAL CAVITY	DEAD	NA	NA
2012	6	3	6/3/2012	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	ANIMAL HAD EXCELLENT BODY CONDITION; OBVIOUS BULLET HOLES WITH ASSOCIATED HEMORRHAGE THROUGH BODY AND VARIOUS ORGANS; SUBSTANTIAL BLOOD IN THORACIC AND ABDOMINAL CAVITIES; SOME INTESTINES IN THORACIC CAVITY.	DEAD	NA	NA
2012	6	10	6/10/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	ANIMAL HAD EXCELLENT BODY CONDITION; CLEAR BULLET HOLES AND TRACKS WITH ASSOCIATED HEMORRHAGING IN NECK AND BODY; SOME FISH BONES AND A SUBSTANTIAL AMOUNT OF BLOOD ENCOUNTERED IN ESOPHAGUS DURING HEAD REMOVAL.	DEAD	NA	NA
2012	7	1	7/1/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	POOR NUTRITIONAL CONDITION; LOWER LEFT CANINE TOOTH BROKEN AND TOOTH CAUDAL TO THAT MISSING; SIGNIFICANT RESISTANCE DUE TO A FIRM OBSTRUCTION AROUND LARYNX; RAPID RESPIRATION; PULMONARY PARASITISM; FISH HOOK IN STOMACH; PELLET IN NECK; AZOTEMIA, CLINICAL FINDING (POSSIBLE LEPTOSPIROSIS); CAUSE OF DEATH ESOPHAGEAL STRICTURE WITH ABSCESS. ANIMAL DIED IN REHAB.	DEAD	P2	NA
2012	7	9	7/9/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	MALNOURISHED AND FISHERY INJURY- FISH HOOKS IN FRONT FLIPPER, UNDERWEIGHT, DEHYDRATED; COD: STARVATION; SEVERE PARASITIC INFESTATION. ANIMAL DIED IN REHAB CENTER.	DEAD	P5C	NA
2012	7	21	7/21/2012	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	TEMPERATURE 104.2; PUS AND MUCOUS IN MOUTH; COUGHING; CIRCUMFERENTIAL GILL NET INJURY; COD: SEVERE PULMONARY PARASITE LOAD WITH MULTIFOCAL GRANULOMAS; SEVERE INTESTINAL PARASITE LOAD; CHRONIC CIRCUMFERENTIAL GILL NET INJURY WITH MYOSITIS AND SCAR FORMATION. ANIMAL DIED IN REHAB FACILITY.	DEAD	P8A	NA
2012	7	22	7/22/2012	CALIFORNIA SEA LION	GILLNET FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT GILLNET, INTERNAL BLEEDING. ANIMAL DIED IN REHAB.	DEAD	P8A	NA
2012	7	23	7/23/2012	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	2-3 CM VENTRALLY X 2-3 CM DEEP GILL NET LACERATION AROUND NECK. ANIMAL TREATED AND RELEASED FROM REHAB, ORANGE ROTOTAG #26272.	NSI	P8A	NA
2012	7	29	7/29/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	ENTANGLEMENT AROUND FACE AND NECK, PINK GUMS. 1.5 INCHES CUT ON BACK OF NECK, MILDLY UNDERWEIGHT. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P8A	NA
2012	7	31	7/31/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	SI	HOOKS IN MOUTH AND FLIPPERS. ANIMAL TREATED AND RELEASED FROM REHAB. ANIMAL TAGGED WITH ROTOTAG #17927	NSI	P5C	NA
2012	7	17	7/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	7	17	7/17/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	7	5	7/5/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	COOS	OR	SI	MARINE DEBRIS, LARGE BAND OF PLASTIC AROUND NECK; "CUTTING HALF OF NECK"; NO FURTHER DETAILS AVAILABLE.	SI	P8A	NA

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2012	7	20	7/20/2012	CALIFORNIA SEA LION	SHOOTING	CURRY	OR	DEAD	PHOTOGRAPHED AND ASSESSED BY VOLUNTEER: MULTIPLE SMALL HOLES (10 AT LEAST) TO THE FRONT RIGHT SIDE OF BODY. SEEMED TO HAVE PARTIALLY HEALED. WERE NOT MADE AFTER DEATH. SMALL HOLES IN MIDDLE OF HAIRLESS CIRCLE INDICATED THEY HAD BEEN INFECTED. POSSIBLE SHOTGUN? VERY LITTLE DECOMPOSITION BEYOND SWELLING OF EYE AND MOUTH TISSUE. COVERED WITH FUR, TEETH IN GOOD CONDITION, LOOKED HEALTHY WITH A GOOD FAT LAYER. APPEARS TO HAVE MULTIPLE PUNCTURE WOUNDS WITH IMBEDDED SHOTGUN FRAGMENTS.	DEAD	NA	NA
2012	7	31	7/31/2012	CALIFORNIA SEA LION	VESSEL STRIKE	CLATSOP	OR	NSI	HEALING PROPELLER WOUND ON DORSAL MID-BACK. ROBUST ANIMAL VERY ACTIVE AND ALERT IN SURF, DEPARTED BEACH SAME DAY.	NSI	P15	NA
2012	8	30	8/30/2012	CALIFORNIA SEA LION	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 INJECTION, NO CAPTIVE FACILITY AVAILABLE.	DEAD	NA	NA
2012	8	3	8/3/2012	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	GILL NET ENTANGLEMENT VENTRALLY 1 CM DEEP AND 2 CM WIDE AROUND NECK. ANIMAL TREATED AND RELEASED FROM REHAB, TAGGED WITH ROTOTAG #26278. PRELIMINARY FINDINGS: PULMONARY PARASITISM; GASTROINTESTINAL PARASITISM; CHRONIC FISHING LINE ENTANGLEMENT WITH LACERATION. ANIMAL DIED DURING TRANSPORT.	NSI	P8A	NA
2012	8	4	8/4/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	EMACIATED, RIGHT EYE INJURY, BAD LOCATION - TRAFFIC HAZARD. WE RECOVERED A VERY SMALL FRAGMENT OF SHOT WHEN WE EXTRACTED THE CANINE ROOTS AT SURGERY; SEE DISPOSITION & COLLECTED REPORTS. RELEASED FROM REHABILITATION FACILITY.	DEAD	P8A	NA
2012	9	2	9/2/2012	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	TEMPERATURE 103 F; INCREASED RESPIRATION; MUCOUS MEMBRANES PALE; SINGLE KNOTTED FISH LINE (COULD BE GILL NET) AROUND NECK 2 CM WIDE AND 0.5 CM DEEP. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	NA
2012	9	3	9/3/2012	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	LETHARGIC, EUTHANIZED IN REHAB FACILITY, BULLETS REMOVED FROM BACK AND NECK ON POST-MORTEM.; HISTOLOGY AND SEE DISPOSITION & SPECIMENS COLLECTED REPORTS.	NSI	P8A	NA
2012	9	9	9/9/2012	CALIFORNIA SEA LION	SHOOTING	SAN LUIS OBISPO	CA	SI	RESTRAND; ORANGE ROTOTAG RFF #19981; OLD GILL NET SCAR AROUND NECK; NOTCH ON RIGHT FRONT FLIPPER; HIGH WHITE CELL COUNT. TREATED AND RELEASED FROM REHAB WITH NEW TAG #26283 (OLD TAG BARELY READABLE).	DEAD	P9	NA
2012	9	10	9/10/2012	CALIFORNIA SEA LION	GILLNET FISHERY	LOS ANGELES	CA	SI	TREBLE HOOK ON LEFT FOREFLIPPER. TAKEN TO REHAB, TREATED AND RELEASED WITH ROTOTAG #17938.	SI	P1	NA
2012	9	12	9/12/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	SANTA BARBARA	CA	NSI	POWER PLANT ENTRAINMENT	NSI	P5C	NA
2012	9	20	9/20/2012	CALIFORNIA SEA LION	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL FOUND IN POWER PLANT INTAKE SYSTEM	DEAD	NA	NA
2012	9	20	9/20/2012	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	THIN, LETHARGIC. IN SAME AREA FOR THREE DAYS. BUCKSHOT GUNSHOT WOUND FOUND DURING NECROPSY. COD: 1. PRESUMPTIVE PAST DOMOIC ACID INTOXICATION; ? CHRONIC HIPPOCAMPAL NECROSIS AND ATROPHY AND SUBACUTE NON-SUPPURATIVE MENINGOENCEPHALITIS ? PERICARDIAL AND THORACIC EFFUSION PRESUMPTIVELY ASSOCIATED WITH MYOCARDIAL DEGENERATION. EUTHANIZED IN REHABILITATION FACILITY.	DEAD	P9	NA

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2012	9	24	9/24/2012	CALIFORNIA SEA LION	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	ANIMAL FOUND WITH ROPE TIED AROUND BODY BELOW PECTORAL FLIPPERS.	DEAD	NA	NA
2012	9	29	9/29/2012	CALIFORNIA SEA LION	SHOOTING	LOS ANGELES	CA	SI	MULTIPLE GUNSHOT WOUNDS RESULTING IN PARALYSIS. EUTHANIZED IN REHAB.	DEAD	P9	NA
2012	9	2	9/2/2012	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	ANIMAL HAD EXCELLENT BODY CONDITION; BULLET HOLE ON LEFT ABDOMINAL LATERAL SIDE AND A LARGER HOLE IN LEFT VENTRAL THORAX, WITH HEMORRHAGE THROUGHOUT MUCH OF ANIMAL; INTESTINES SEVERELY TWISTED.	DEAD	NA	NA
2012	9	4	9/4/2012	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	ANIMAL HAD GOOD BODY CONDITION; BULLET HOLES IN BODY AND ONE THROUGH LIVER WITH ASSOCIATED HEMORRHAGE; NECK SWOLLEN AND HEMORRHAGED; VENTRAL MANDIBLE AND AROUND TRACHEA BRUISED/HEMORRHAGED; LIVER COVERED WITH "CALCIFIED" GRIT.	DEAD	NA	NA
2012	9	9	9/9/2012	CALIFORNIA SEA LION	VESSEL STRIKE	CLATSOP	OR	DEAD	SEVERAL GASH MARKS/INDENTATIONS ON BODY AND FLIPPERS; THREE BROKEN RIBS ASSOC. W/RUBBED HOLE IN LEFT DIAPHRAGM; MUCH PUS-LIKE BLOOD IN THORACIC CAVITY; FOAM AND MUCUS/INFECTION IN LEFT LUNG; STOMACH DETACHED FROM SMALL INTESTINES	DEAD	NA	NA
2012	9	20	9/20/2012	CALIFORNIA SEA LION	SHOOTING	PACIFIC	WA	DEAD	BULLET HOLES, TRACKS, AND ASSOCIATED HEMORRHAGE IN NECK AND BODY.	DEAD	NA	NA
2012	9	11	9/11/2012	CALIFORNIA SEA LION	SHOOTING	KITSAP	WA	DEAD	SHOT PELLETS WOUNDS IN HEAD AND NECK IN ADDITION TO PENETRATING WOUND TO ABDOMINAL CAVITY AND INTESTINES WITH LARGE AMOUNT OF ASSOCIATED ABDOMINAL CAVITY FLUID SUGGESTS GUN SHOT IS CAUSE OF DEATH, PELLETS RECOVERED.	DEAD	NA	NA
2012	10	4	10/4/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	SAN FRANCISCO	CA	SI	EMBEDDED ENTANGLEMENT AROUND NECK, MILDLY UNDERWEIGHT. ANIMAL TREATED AT REHAB FACILITY AND RELEASED.	NSI	P8A	NA
2012	10	5	10/5/2012	CALIFORNIA SEA LION	SHOOTING	SAN DIEGO	CA	SI	ADULT MALE WITH LARGE WOUND ON RIGHT SIDE OF FACE. MISSING RIGHT EYE. OTHERWISE GOOD BODY CONDITION. XRAY SHOWED BUCKSHOT ON SIDE OF FACE AND CHEST. ANIMAL TREATED AND RELEASED WITH ORANGE ROTOTAG #20446.	NSI	P9	NA
2012	10	13	10/13/2012	CALIFORNIA SEA LION	GILLNET FISHERY	ORANGE	CA	SI	GILL NET EMBEDDED AROUND NECK, REMOVED ON PLATFORM AND RELEASED.	NSI	P8A	NA
2012	10	21	10/21/2012	CALIFORNIA SEA LION	SHOOTING / GILLNET FISHERY	LOS ANGELES	CA	SI	GILL NET AT BASE OF NECK; PENIS DISTENDED AND TESTICULAR SWELLING; SWOLLEN ABDOMEN; URINE BLOODY; COD: GILLNET INJURY;; GUNSHOT; UROABDOMEN, RUPTURED BLADDER, CYSTITIS; PARAPHIMOSIS.	DEAD	P9	NA
2012	10	10	10/10/2012	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	10	13	10/13/2012	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	10	19	10/19/2012	CALIFORNIA SEA LION	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	10	4	10/4/2012	CALIFORNIA SEA LION	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	10	1	10/1/2012	CALIFORNIA SEA LION	MARINE DEBRIS INGESTION	KITSAP	WA	DEAD	7CM ORANGE ACOUSTIC TAG WRAPPED IN GAUZE BY A RUBBER BAND AND A 2 CM WIRE WAS RECOVERED FROM ITS STOMACH. THE ACOUSTIC TAG WAS FROM THE STOMACH OF A CHINOOK SALMON TAGGED AT THE BALLARD LOCKS.	DEAD	NA	NA
2012	11	8	11/8/2012	CALIFORNIA SEA LION	HOOK & LINE FISHERY	ORANGE	CA	SI	ABSCCESS ON BACK, EMACIATED, DEHYDRATED, FISH HOOK RIGHT FRONT FLIPPER. TREATED AND RELEASED FROM REHAB FACILITY, TAGGED WITH ORANGE ROTOTAG #22388.	NSI	P5C	NA
2012	11	18	11/18/2012	CALIFORNIA SEA LION	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	SI	TEMPERATURE 100.8 F; ABRASIONS RIGHT FRONT FLIPPER; BILATERAL ABRASIONS AROUND EYES AND NOSE; ABDOMEN DISTENDED; PLASTIC TIE AROUND NECK MILD SKIN INDENTATION. TREATED AND RELEASED FROM REHAB FACILITY, TAGGED WITH ORANGE ROTOTAG #26306.	NSI	P8A	NA
2012	11	20	11/20/2012	CALIFORNIA SEA LION	SHOOTING CA SWORDFISH DRIFT GILLNET FISHERY	ORANGE	CA	SI	CIRCULAR WOUND ON LEFT THORAX, CONSISTENT WITH OTHER KNOWN BULLET ENTRY WOUNDS. ANIMAL HYPOTHERMIC, OPEN-MOUTH BREATHING. EUTHANIZED IN REHAB FACILITY.	DEAD	P9	NA
2012	11	3	11/3/2012	CALIFORNIA SEA LION	SHOOTING CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	11	4	11/4/2012	CALIFORNIA SEA LION	SHOOTING CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	11	26	11/26/2012	CALIFORNIA SEA LION	SHOOTING CA SWORDFISH DRIFT GILLNET FISHERY	LANE	OR	DEAD	TWO SMALL PUNCTURE WOUNDS AT LOWER LEFT ABDOMEN - APPEARS TO BE BULLET WOUNDS	DEAD	NA	NA
2012	12	11	12/11/2012	CALIFORNIA SEA LION	SHOOTING CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	12	13	12/13/2012	CALIFORNIA SEA LION	SHOOTING	CLATSOP	OR	DEAD	ANIMAL WASHED BACK OUT TO SEA PRIOR TO NECROPSY; WASHED ASHORE AGAIN AT 1ST AVENUE IN SEASIDE, OR ON 1/2/13; CLEAR BULLET HOLES IN RIGHT ABDOMEN W/ASSOC. HEMORRHAGE; INTESTINES VERY TWISTED; ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	NA
2012	12	27	12/27/2012	CALIFORNIA SEA LION	VESSEL STRIKE	CLATSOP	OR	DEAD	ANIMAL HAD GOOD TO EXCELLENT BODY CONDITION; SUBSTANTIAL PROPELLER CUT MARKS ALONG LEFT LATERAL SIDE OF BODY WITH ASSOCIATED HEMORRHAGING, BEGINNING AT LEFT SCAPULA; A LOT OF BLOOD IN THORACIC CAVITY AND PERICARDIUM	DEAD	NA	NA
2008	10	19	10/19/2008	FIN WHALE	VESSEL STRIKE	LOS ANGELES	CA	DEAD	CARCASS BROUGHT INTO HARBOR ON BOW OF FREIGHTER	DEAD	NA	NA
2009	1	13	1/13/2009	FIN WHALE	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI (PRORATE)	FREE-SWIMMING ANIMAL TOWING UNIDENTIFIED FISHING GEAR; REPORT RECEIVED VIA CALIFORNIA LARGE WHALE DISENTANGLEMENT NETWORK MEMBER; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2009	2	2	2/2/2009	FIN WHALE	VESSEL STRIKE	SAN DIEGO	CA	DEAD	U.S. NAVY VESSEL COLLIDED WITH FREE-SWIMMING ANIMAL; MORTALITY (ANIMAL DIED UPON IMPACT, FLOATING AT SURFACE, BLOOD OBSERVED IN WATER; CARCASS RESIGHTED ON 14-FEB FLOATING SOUTH OF LA JOLLA COVE APPROXIMATELY 1 MILE OFFSHORE; CARCASS TOWED TO FIESTA ISLAND FOR DISPOSAL; FOUR FOOT LONG GASH RUNNING FROM MID-DORSAL TO LEFT LATERAL SURFACE, EXTENDING INTO BLUBBER; CARCASS EXAMINED BY SWFSC PERSONNEL)	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	4	10	4/10/2009	FIN WHALE	VESSEL STRIKE	LOS ANGELES	CA	DEAD	CARCASS BROUGHT INTO HARBOR ON BOW OF FREIGHTER; FIELD NECROPSY REVEALED SIGNIFICANT BRUISING & BLOOD LOSS IN AREA DORSAL OF LEFT PECTORAL FLIPPER & SMALL BONE FRAGMENTS FROM SHATTERED SCAPULA; CARCASS EXAMINED BY LACMNH PERSONNEL	DEAD	NA	NA
2009	5	6	5/6/2009	FIN WHALE	VESSEL STRIKE	SAN DIEGO	CA	SI	U.S. NAVY VESSEL COLLIDED WITH FREE-SWIMMING ANIMAL; BLOOD & FLESH OBSERVED IN WATER; SPECIES I.D. DETERMINED THROUGH GENETIC ANALYSIS OF SKIN TISSUE BY SWFSC PERSONNEL; PRESUMED MORTALITY. VESSEL SIZE = 567 FT. VESSEL SPEED = 16 KTS.	SI	L6A	1
2009	6	8	6/8/2009	FIN WHALE	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	FREE-SWIMMING ANIMAL TOWING 300 FEET OF POLYPROPYLENE LINE & LIGHT-COLORED BUOY FROM CAUDAL PEDUNCLE; REPORT RECEIVED VIA U.S. NAVY PERSONNEL ON SCENE; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN; MAY BE A RESIGHT OF ANIMAL FROM 13-JAN. ASSIGNED AS L2 BECAUSE OF LENGTH OF GEAR TRAILING ANIMAL, IMPLIES GREAT DRAG.	SI	L2	1
2009	8	7	8/7/2009	FIN WHALE	VESSEL STRIKE	PIERCE	WA	DEAD	BROUGHT IN ON THE BOW OF THE CONTAINER SHIP INTO THE PORT OF TACOMA BLAIR WATERWAY. TOWED TO MCNEIL ISLAND FOR NECROPSY BY WDFW AND CRC ON 8/8/09. SEE ATTACHED REPORT FOR MORE INFORMATION.	DEAD	NA	NA
2010	9	16	9/16/2010	FIN WHALE	VESSEL STRIKE	ALAMEDA	CA	DEAD	ANIMAL BROUGHT INTO PORT OF OAKLAND IMPINGED ON BOW OF SHIP	DEAD	NA	NA
2010	9	20	9/20/2010	FIN WHALE	VESSEL STRIKE	SAN FRANCISCO	CA	DEAD	BROKEN VERTEBRAE, LINEAR LACERATION	DEAD	NA	NA
2011	7	31	7/31/2011	FIN WHALE	UNIDENTIFIED FISHERY INTERACTION	MARIN	CA	SI	ORANGE/REDDISH LINE WRAPPED IN SEVERAL LAYERS BEHIND THE BLOWHOLE THAT HAD CUT DEEP INTO THE FLESH. FROM SIGHT THE ENTANGLEMENT LOOKED VERY TIGHT WRAPPED LINE ABOUT 20 MM THICK WITH MANY TURNS. IT LOOKED LIKE THE WRAP IN TOTAL WAS A 200 MM THICK BUNDLE OF LINE; TRAVELING WITH ANOTHER FIN WHALE, EST 20 M LONG, "MEANDERING IN THE AREA"; NO RESIGHTS, NO RELEASE, FINAL OUTCOME UNKNOWN	SI	L2	1
2011	11	19	11/19/2011	FIN WHALE	VESSEL STRIKE	SAN DIEGO	CA	DEAD	FRACTURES ALONG 4 METER LENGTH OF VERTEBRAL COLUMN AND SIGNIFICANT MUSCLE HEMORRHAGE SURROUNDING THIS AREA INDICATE ANTE-MORTEM SHIP STRIKE. CARCASS SUNK 5 MILES OFF LA JOLLA AS PART OF WHALE FALL STUDY.	DEAD	NA	NA
2012	6	21	6/21/2012	FIN WHALE	VESSEL STRIKE	MARIN	CA	DEAD	FRACTURED RIBS, VERTEBRAE. NECROPSY PERFORMED BY FRANCES GULLAND AT THE MARINE MAMMAL CENTER AND NATIONAL PARK SERVICE PERSONNEL.	DEAD	NA	NA

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2012	12	3	12/3/2012	FIN WHALE	VESSEL STRIKE	LOS ANGELES	CA	DEAD	NECROPSY REPORT, DR. DUANE TOM: MORPHOLOGIC DIAGNOSES OF PATHOLOGICAL LESIONS: -NOTE: ALTHOUGH FRESHLY APPEARING EXTERNALLY, THERE WAS SIGNIFICANT AUTOLYSIS INTERNALLY. -LARGE CAVERNOUS ABSCESS ALONG L DORSAL THORAX. FRACTURE OF A LEFT TRANSVERSE VERTEBRAL PROCESS WITH REACTIVE BONE AND SEQUESTRA, THOUGH SUBACUTE TRAUMA AND OSTEOMYELITIS ANOTHER POSSIBLE RULE-OUT. GROSS NECROPSY SUMMARY DIAGNOSIS: THE ANIMAL APPEARS TO HAVE SUCCEDED AN INJURY CONSISTENT WITH AN IMPACT TRAUMA ALONG ITS LEFT DORSAL BODY BY A LARGE OBJECT (SHIP STRIKE) RESULTING IN SEVERE MUSCULOSKELETAL TRAUMA AND SUBSEQUENT NECROSIS OF THE TISSUES. THE FRACTURE AND REACTIVE BONE THAT COMMUNICATED WITH THE RESULTANT CAVERNOUS ABSCESS MAY INDICATE CHRONICITY DUE TO A PREVIOUS INJURY THAT WOULD BE CONSISTENT WITH THE SUPERFICIALLY ADJACENT CUTANEOUS SCARS, OR OSTEOMYELITIS ASSOCIATED WITH THE MORE ACUTE SUSPECT IMPACT TRAUMA.	DEAD	NA	NA
2008	2	7	2/7/2008	GRAY WHALE	VESSEL STRIKE	ORANGE	CA	DEAD	CARCASS; PROPELLER-LIKE WOUNDS TO LEFT DORSUM FROM MID-BODY TO CAUDAL PEDUNCLE; DEEP EXTERNAL BRUISING ON RIGHT SIDE OF HEAD; FIELD NECROPSY REVEALED MULTIPLE CRANIAL FRACTURES	DEAD	NA	NA
2008	3	1	3/1/2008	GRAY WHALE	VESSEL STRIKE	MEXICO	CA	DEAD	CARCASS BROUGHT INTO PORT ON BOW OF CRUISE SHIP; COLLISION OCCURRED BETWEEN PORTS OF SAN DIEGO & CABO SAN LUCAS BETWEEN 5:00 P.M. ON 2/28 & 7:20 A.M. ON 3/1	DEAD	NA	NA
2009	1	31	1/31/2009	GRAY WHALE	LOBSTER TRAP ENTANGLEMENT	SAN DIEGO	CA	SI (PRORATE)	FREE-SWIMMING ANIMAL TOWING UNIDENTIFIED POT/TRAP GEAR; USCG REPORTED GEAR AS 4 LOBSTER POTS; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2009	3	25	3/25/2009	GRAY WHALE	GILLNET FISHERY	ORANGE	CA	SI (PRORATE)	FREE-SWIMMING ANIMAL WITH PINK GILLNET WRAPPED AROUND HEAD, TRAILING 4 FEET OF VISIBLE NETTING; REPORT RECEIVED VIA NATURALIST ON LOCAL WHALEWATCH VESSEL; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2009	4	4	4/4/2009	GRAY WHALE	VESSEL STRIKE	PACIFIC	WA	DEAD	NECROPSIED, BROKEN BONES IN SKULL; EXTENSIVE HEMORRHAGE HEAD AND THORAX; SUB-ADULT MALE	DEAD	NA	NA
2009	4	5	4/5/2009	GRAY WHALE	VESSEL STRIKE	ORANGE	CA	DEAD	DEAD STRANDING; 3 DEEP PROPELLER-LIKE CUTS ON RIGHT SIDE, JUST ANTERIOR OF GENITAL OPENING; CARCASS TOWED OUT TO SEA ON 6-APR, RESTRAINED AT 29TH STREET IN DEL MAR ON 10-APR; CARCASS TOWED OUT & RESTRAINED AT TORREY PINES STATE BEACH ON 12-APR; CARCASS EXAMINED BY LACMNH & SWFSC PERSONNEL	DEAD	NA	NA
2009	4	9	4/9/2009	GRAY WHALE	MARINE DEBRIS ENTANGLEMENT	SITKA	AK	SI	THICK BLACK LINE WRAPPED TWICE AROUND WHALE'S BODY POSTERIOR TO THE EYES. PRIVATE CITIZEN CUT AND PULLED AWAY THE LINES. ANIMAL SWAM AWAY AND DOVE.	SI	L10	0.75
2009	4	27	4/27/2009	GRAY WHALE	VESSEL STRIKE	ISLAND	WA	DEAD	LARGE AMOUNT OF BLOOD IN BODY CAVITY, BRUISING IN SOME AREAS OF BLUBBER LAYER AND IN SOME INTERNAL ORGANS. FINDINGS SUGGESTIVE OF BLUNT FORCE TRAUMA LIKELY CAUSED BY COLLISION WITH A LARGE SHIP.	DEAD	NA	NA

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2009	5	1	5/1/2009	GRAY WHALE	VESSEL STRIKE	LOS ANGELES	CA	SI	CATALINA ISLAND TRANSPORT VESSEL COLLIDED WITH FREE-SWIMMING CALF ACCOMPANIED BY ADULT ANIMAL; CALF WAS SUBMERGED AT TIME OF COLLISION; PIECES OF FLESH & BLOOD OBSERVED IN WATER; CALF NEVER SURFACED; PRESUMED MORTALITY. VESSEL SIZE = 85 FT. SPEED = 27 KTS.	SI	L6A	1
2009	6	24	6/24/2009	GRAY WHALE	GILLNET FISHERY, TRIBAL	CLALLAM	WA	SI	WHALE CAUGHT IN THE BAG SECTION OF A TRIBAL SET GILLNET. WHALE ENCOUNTERED IN MORNING, UNKNOWN ENTANGLEMENT DURATION. NET HAD BEEN SET 8PM PREVIOUS DAY. WHALE WAS ABLE TO BREATHE, BUT COULD NOT FREELY SWIM AND WAS STATIONARY WITHIN NET. RIGHT PECTORAL FIN AND HEAD WERE WELL WRAPPED IN NET WEBBING. WHALE REACTED VIOLENTLY AND SWAM AWAY IN RESPONSE TO A DISENTANGLEMENT ATTEMPT. NET WAS RETRIEVED AND FOUND TO BE TORN IN TWO. NO CONFIRMATION THAT WHALE WAS COMPLETELY FREE OF NETTING. WHALE LAST SEEN AT 1030 AM. PRORATE L10 SERIOUS INJURY BECAUSE OF POSSIBLE EXISTING ENTANGLEMENT.	SI (PRORATE)	L10	0.75
2009	7	21	7/21/2009	GRAY WHALE	GILLNET FISHERY	HUMBOLDT	CA	SI	FREE-SWIMMING ANIMAL WITH GREEN GILLNET, ROPE & SMALL BLACK FLOATS WRAPPED AROUND CAUDAL PEDUNCLE. PHOTOS SHOW ROPE CUTTING INTO CAUDAL PEDUNCLE. REPORT RECEIVED VIA HSU RESEARCHER ON SCENE DURING RESEARCH CRUISE; ANIMAL RESIGHTED ON 3-AUG; NO RESCUE EFFORT INITIATED; WHALE IDENTIFIED BY J. CALAMBOKIDIS AS PCFG GRAY WHALE, RESIGHTED IN 2010 AND 2011, STILL ENTANGLED. WHALE WAS RESIGHTED IN 2013 AND HAD SHED GEAR, APPARENTLY IN GOOD HEALTH (JEFF JACOBSEN, PERS. COMM.).	NSI	L2	NA
2009	9	9	9/9/2009	GRAY WHALE	VESSEL STRIKE	CLALLAM	WA	SI (PRORATE)	USCG VESSEL REPORTED TO BE TRAVELING AT 10 KNOTS WHEN THEY HIT A GRAY WHALE ON 9/9/2009. THE ANIMAL WAS HIT WITH THE PROP AND WAS REPORTED ALIVE AFTER BEING HIT, BLOOD OBSERVED IN WATER.	SI (PRORATE)	L11	0.52
2010	2	1	2/1/2010	GRAY WHALE	HARPOON	HUMBOLDT	CA	DEAD	40 CENTIMETER LONG HARPOON & 8 CENTIMETER LONG BROKEN TOGGLE HEAD FROM 2ND HARPOON EMBEDDED IN LEFT LATERAL/DORSAL SIDE JUST BELOW DORSAL HUMP, HARPOON ATTACHED TO 10 METERS OF ROPE.	DEAD	NA	NA
2010	2	16	2/16/2010	GRAY WHALE	VESSEL STRIKE	SAN DIEGO	CA	SI (PRORATE)	FREE-SWIMMING ANIMAL WITH PROPELLER-LIKE WOUNDS TO DORSUM	SI (PRORATE)	L11	0.52
2010	3	5	3/5/2010	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	TOWING ORANGE/WHITE BUOY; UNIDENTIFIED FISHERY. NO RESCUE EFFORT INITIATED; NO RESIGHTINGS REPORTED; FINAL STATUS UNKNOWN	SI	L10	0.75
2010	3	12	3/12/2010	GRAY WHALE	VESSEL STRIKE	SANTA BARBARA	CA	SI	21 METER SAILBOAT UNDERWAY AT 13 KTS COLLIDED WITH FREE-SWIMMING ANIMAL; WHALE BREACHED SHORTLY AFTER COLLISION; NO BLOOD OBSERVED IN WATER; MINOR DAMAGE TO LOWER PORTION OF BOAT'S KEEL; FINAL STATUS UNKNOWN	SI	L6A	1
2010	4	16	4/16/2010	GRAY WHALE	CRAB POT FISHERY ENTANGLEMENT	CLATSOP	OR	DEAD	ENTANGLED IN CRAB POT LINES	DEAD	NA	NA
2010	5	7	5/7/2010	GRAY WHALE	CRAB POT FISHERY ENTANGLEMENT	LINCOLN	OR	SI (PRORATE)	ENTANGLED IN 3 CRAB POTS, WHALE NOT RELOCATED	SI (PRORATE)	L10	0.75

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2010	5	11	5/11/2010	GRAY WHALE	GILLNET FISHERY	ORANGE	CA	SI	FREE-SWIMMING ANIMAL ENTANGLED IN GILLNET; ANIMAL FIRST OBSERVED INSIDE DANA POINT HARBOR ON 5/11/10; ANIMAL SUCCESSFULLY DISENTANGLED ON 5/12/10 & SWAM OUT OF HARBOR; ANIMAL OBSERVED ALIVE IN SURF ZONE FOR SEVERAL HOURS ON 5/14/10 OFF DOHENY STATE BEACH BEFORE WASHING UP DEAD ON BEACH.	DEAD	NA	NA
2010	8	17	8/17/2010	GRAY WHALE	CRAB POT FISHERY ENTANGLEMENT	MENDOCINO	CA	SI	CRAB POT LINE SPIRALED AROUND ANIMAL FROM HEAD TO FLUKES, TRAILING 20 FEET OF LINE ATTACHED TO CRAB POT; PECTORAL FIN SEVERED, ONLY NECROTIC TISSUE REMAINING. FREE-SWIMMING, BREACHING, MAKING SHALLOW DIVES; SUCCESSFUL DISENTANGLEMENT	SI	L2	1
2011	1	22	1/22/2011	GRAY WHALE	VESSEL STRIKE	SAN DIEGO	CA	SI (PRORATE)	PLEASURE SAILBOAT COLLIDED WITH FREE-SWIMMING ANIMAL; ANIMAL DOVE IMMEDIATELY FOLLOWING CONTACT & WAS NOT RESIGHTED; NO BLOOD OBSERVED IN WATER; FINAL STATUS UNKNOWN. VESSEL SIZE ASSUMED LESS THAN 65 FT. AND SPEED UNKNOWN.	SI (PRORATE)	L7B	0.14
2011	2	12	2/12/2011	GRAY WHALE	VESSEL STRIKE	LOS ANGELES	CA	SI (PRORATE)	PRIVATE RECREATIONAL VESSEL COLLIDED WITH FREE-SWIMMING ANIMAL; ANIMAL BREACHED JUST PRIOR TO CONTACT, BOUNCING OFF SIDE OF VESSEL; DOVE IMMEDIATELY FOLLOWING CONTACT & WAS NOT RESIGHTED; NO BLOOD OBSERVED IN WATER; FINAL STATUS UNKNOWN; SKIN SAMPLE COLLECTED FROM VESSEL AND GENETICALLY IDENTIFIED AS A FEMALE GRAY WHALE. VESSEL SIZE ASSUMED LESS THAN 65 FT AND SPEED UNKNOWN.	SI (PRORATE)	L7B	0.14
2011	4	18	4/18/2011	GRAY WHALE	VESSEL STRIKE	SAN FRANCISCO	CA	DEAD	CRUSHED MANDIBLE	DEAD	NA	NA
2011	6	11	6/11/2011	GRAY WHALE	VESSEL STRIKE	SAN MATEO	CA	DEAD	MASSIVE HEMORRHAGE INTO THE THORAX, BLOOD CLOTS AROUND LUNGS. LESIONS INDICATE MASSIVE TRAUMA. DUE TO CARCASS POSITION, THE SKELETON COULD NOT BE COMPLETELY EXAMINED (LYING ON BACK, TOP OF SKULL IN SAND)	DEAD	NA	NA
2011	7	13	7/13/2011	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI	ANIMAL HAS BEEN IN AREA FOR ~5 WEEKS, OBSERVED FEEDING; THIS WAS FIRST OBSERVATION OF ENTANGLEMENT; GRAY LINE WITH BLACK AND WHITE FLOAT WRAPPED AROUND FLUKE/PEDUNCLE AREA, TRAILING LINE, 2 LACERATIONS IN THE FLUKE AREA, ONE DEEP ONE AT THE BASE AND ONE ON ONE OF THE BLADES CAUSING THE TIP TO CURL; ANIMAL OBSERVED ENTANGLED IN THE MORNING BUT AT 1330 OBSERVED WITHOUT ENTANGLEMENT; SHED GEAR ON ITS OWN; GEAR-FREE BUT INJURED	SI	L2	1
2011	7	27	7/27/2011	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	NSI	INDICATIONS OF OLD HEALED ENTANGLEMENT SCAR ON FLUKE. OPEN ULCER/ LESIONS ON ABDOMEN OF UNKNOWN ORIGIN.	NSI	L5B	0
2011	8	25	8/25/2011	GRAY WHALE	UNIDENTIFIED NET FISHERY ENTANGLEMENT	PETERSBURG	AK	SI	ENTANGLED IN 50 LBS. HEAVY MONOFILAMENT WEBBING, CORK LINE, AND LEAD LINE, AS WELL AS OVER 200 LBS. OF BULL KELP ATTACHED TO GEAR; COMPLETELY DISENTANGLED; LEADING EDGE OF FLUKES HAD SIGNIFICANT CUTS AND ABRASIONS; OVERALL BODY CONDITION WAS POOR; MASSIVE INFESTATION OF WHALE LICE AND BARNACLES; ANIMAL VERY EMACIATED AND LACKED ANY VISIBLE SIGNS OF RECENT FEEDING; OBSERVED THE DAY AFTER DISENTANGLEMENT SWIMMING VERY SLOWLY. (APPARENT HEALTH DECLINE DUE TO CONSTRICTING AND WEIGHTED ENTANGLEMENT)	SI	L2	1

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2011	8	25	8/25/2011	GRAY WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN MATEO	CA	SI	ONE WHITE "CRAB POT" BUOY NEXT TO BODY BY LEFT PECTORAL FIN; FLOAT STAYED NEXT TO BODY AND DID NOT CHANGE POSITION; ANIMAL REMAINED IN SAME POSITION - POSSIBLY ANCHORED; ONLY OBSERVED FOR ~2 MIN; NOT RESIGHTED, NO RESCUE, OUTCOME UNKNOWN	SI	L2	1
2011	9	27	9/27/2011	GRAY WHALE	COD POT FISHERY ENTANGLEMENT	KODIAK	AK	SI	ENTANGLED IN COD POT GEAR; 3-5 WRAPS OF LINE AROUND PEDUNCLE AND WHALE IMMOBILIZED; 2-3 WRAPS OF FLOATING POLY BUOY LINES WRAPPED CLOSE TO FLUKES, SINGLE WRAP OF POT LINE AROUND PEDUNCLE EXTENDED DOWN TO THE POT AT AN ANGLE; FLUKES IMMOBILIZED; COMPLETELY DISENTANGLED AFTER 2 HRS AND OBSERVED SWIMMING SLOWLY. NON-SERIOUS INJURY BECAUSE WHALE'S CONDITION WAS REPORTED AS GOOD AND ALL GEAR REMOVED.	NSI	L2	NA
2012	1	28	1/28/2012	GRAY WHALE	UNKNOWN FISHERY INTERACTION	SAN DIEGO	CA	SI (PRORATE)	ENTANGLED ANIMAL REPORT; TOWING TWO ORANGE BUOYS AND AT LEAST 150 FT OF LINE; UNKNOWN FISHERY, REPORTED AS POSSIBLE GILLNET; NO RESPONSE EFFORT	SI (PRORATE)	L10	0.75
2012	1	17	1/17/2012	GRAY WHALE	COD POT FISHERY ENTANGLEMENT	ALEUTIANS EAST	AK	SI (PRORATE)	A 40' WHALE WAS CAUGHT IN COD POT GEAR NEAR UNIMAK PASS. LINES WERE CUT BY BOAT CREW AND BUOYS WERE RECOVERED, HOWEVER, THE POT AND SOME LINE REMAINED IN THE WATER. ANY LINE POSSIBLY REMAINING ON ANIMAL THOUGHT TO BE MINIMAL. GRAY WHALE DETERMINATION MADE FOLLOWING EXTENSIVE QUESTIONING BY KATE WYNNE. DETERMINATION: PRORATE AT L10 BECAUSE GEAR POSSIBLY REMAINS ON ANIMAL.	SI	L10	0.75
2012	1	22	1/22/2012	GRAY WHALE	MARINE DEBRIS ENTANGLEMENT	PACIFIC	WA	DEAD	POSSIBLE ENTANGLEMENT, DEEP CABLE-LIKE INDENTATION AROUND GENITAL AREA.	DEAD	NA	NA
2012	3	24	3/24/2012	GRAY WHALE	GILLNET FISHERY	LOS ANGELES	CA	SI	ENTANGLED ANIMAL REPORT; GILLNET GEAR AROUND PEDUNCLE; RESPONSE EFFORT RESULTED IN SUCCESSFUL DISENTANGLEMENT WITH >100 FT OF PINK GILLNET REMOVED FROM ANIMAL, BUT ANIMAL SUBSEQUENTLY OBSERVED DEAD ON 03/27 (FLOATING, SKIN SAMPLE TAKEN, NO NECROPSY). NET REMOVED ON 03/24 FOUND TO CONTAIN ONE DEAD CA SEA LION AND THREE DEAD SHARKS.	DEAD	L2	NA
2012	3	28	3/28/2012	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	ENTANGLED ANIMAL REPORT; LINE DEEPLY EMBEDDED AROUND TAIL STOCK AND UNDER FLUKE; ~45 FEET OF ROPE WITH HAND CARVED BUOY; ANIMAL SUCCESSFULLY COMPLETELY DISENTANGLED ON 3/29. FINAL OUTCOME UNKNOWN. ANIMAL SUCCESSFULLY DISENTANGLED AND ALL GEAR RECOVERED. ENTANGLEMENT NO LONGER LIFE THREATENING. CONDITION OF ANIMAL INDICATED THAT ANIMAL IS LIKELY TO SURVIVE.	NSI	L2	NA
2012	4	17	4/17/2012	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	40-FOOT GRAY WHALE REPORTED ENTANGLED WITH APPROXIMATELY 150 FEET OF LINE TRAILING. FOUR SPONGEX BULLET BUOYS LIE ALONG THE LEFT SIDE OF THE ANIMAL. ENTANGLEMENT INVOLVES THE MOUTH, A WRAP OVER THE HEAD, AND THE LEFT PECTORAL FLIPPER. ENTANGLEMENT APPEARS RECENT. PARTIALLY DISENTANGLED 5/3/12 BY FISHERMEN.	SI (PRORATE)	L10	0.75
2012	4	21	4/21/2012	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	DEAD	ROPE LIKE MARKS ON CAUDAL PEDUNCLE. ROPE IMPRESSION ON PECTORAL FIN. PHOTOS TAKEN.	DEAD	NA	NA
2012	4	28	4/28/2012	GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	MENDOCINO	CA	SI (PRORATE)	SMALL GRAY WHALE OFF FORT BRAGG CA, IN COMPANY OF TWO OTHER ANIMALS, TRAILING TWO BUOYS.	SI (PRORATE)	L10	0.75

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	5	5	5/5/2012	GRAY WHALE	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	WHALE WATCH VESSEL NOTICED FROM IMAGES TAKEN OF A 20 - 25 FOOT GRAY WHALE THEY HAD BEEN OBSERVING EARLIER IN THE DAY, THAT ANIMAL WAS ACTUALLY ENTANGLED. A SMALL GAUGE LINE, LIKELY FROM RIGHT SIDE OF MOUTH GOES OVER THE ANIMAL'S BACK, AND OVER BLOWHOLES, TO LEFT SIDE OF MOUTH. NO BUOYS OR TRAILING LINE WERE OBSERVED. ANIMAL IN FAIR CONDITION. ANIMAL SIGHTED NEXT DAY BY WHALE WATCH VESSEL. CONFIRMED MOUTH ENTANGLEMENT, APPEARS TO BE STRAPPING MATERIAL.	SI (PRORATE)	L10	0.75
2012	5	8	5/8/2012	GRAY WHALE	DUNGENESS CRAB POT FISHERY ENTANGLEMENT	HUMBOLDT	CA	SI	ENTANGLED ANIMAL REPORT; DEEP CUTS FROM ROPE AROUND PEDUNCLE AND LACERATIONS AT FLUKE NOTCH AND LATERAL EDGE OF FLUKE; SUCCESSFULLY DISENTANGLED BUT LONG-TERM SURVIVAL NOTED AS QUESTIONABLE. GEAR WAS COLLECTED AND IDENTIFIED AS DUNGENESS CRAB POT GEAR. ANIMAL ENTIRELY FREED OF GEAR. ANIMAL IN FAIR CONDITION AND SLIGHTLY EMACIATED. DEEP CUTS (~ 2 INCHES) FROM THE ROPE AROUND THE PEDUNCLE REMAINED. GEAR WAS RECOVERED. RESULTS OF ENTANGLEMENT MAY STILL BE LIFE THREATENING.	SI	L2	1
2012	5	11	5/11/2012	GRAY WHALE	DUNGENESS CRAB POT FISHERY ENTANGLEMENT	MARIN	CA	SI	ENTANGLED ANIMAL REPORT; LOOP BETWEEN CRAB POTS AND WEIGHTED LINE CAUGHT IN WHALE'S MOUTH; ENTANGLING GEAR STUCK IN ROCKS; ANIMAL ANCHORED WITH SMALL RADIUS OF MOVEMENT FOR 4 DAYS; SUCCESSFULLY DISENTANGLED. GEAR WAS COLLECTED.	NSI	L2	NA
2012	5	13	5/13/2012	GRAY WHALE	UNKNOWN FISHERY INTERACTION	MONTEREY	CA	SI	ANIMAL ENTANGLED THROUGH MOUTH IN AT LEAST TWO SETS OF SUSPECTED POT GEAR THAT HANG BELOW. ANIMAL ANCHORED WITH A SHORT SCOPE IN 28 FEET OF WATER TO SUSPECTED POTS. BUNDLE OF GEAR, INCLUDING 4 BUOYS LIE UNDER ANIMAL. ANIMAL HAVING SOME DIFFICULTY GETTING TO SURFACE. ANIMAL EVENTUALLY DISENTANGLED, BUT RESULTS OF ENTANGLEMENT MAY STILL BE LIFE-THREATENING.	SI	L2	NA
2012	6	16	6/16/2012	GRAY WHALE	GILLNET FISHERY	VALDEZ-CORDOVA	AK	SI	30' GRAY WHALE IN PRINCE WILLIAM SOUND ENTANGLED IN GEAR. THRASHING AT SURFACE AND MOVING AT 4-5 KNOTS. NO WOUNDS OR CHAFING WAS OBSERVED. GILLNET, CORKLINE (ATLEAST 12 FLOATS), AND LEADLINE OBSERVED OVER ANIMAL'S ROSTRUM, BODY, AND TAILSTOCK. BOTH PECTORAL FLIPPERS APPEARED PINNED TO BODY. ANIMAL LATER APPEARED TIRED AND WAS SWIMMING AT 2 KNOTS. IT WAS NOT RELOCATED. ASSIGNED L2 BECAUSE GEAR APPEARS TO BE CONSTRICTING MOVEMENT OF WHALE'S FLIPPERS.	SI	L2	1
2012	8	31	8/31/2012	GRAY WHALE	UNKNOWN FISHERY INTERACTION	LOS ANGELES	CA	SI (PRORATE)	ANIMAL FIRST DETECTED NEAR SAN DIEGO. SUBADULT GRAY WHALE REPORTED ENTANGLED WITH SMALL GAUGE, DARK-COLORED LINE DEEPLY EMBEDDED AROUND ITS TAIL STOCK. LITTLE GEAR TRAILS. ENTANGLEMENT WAS ONCE MORE INVOLVED AS INDICATED BY SCARS ON THE ANIMAL'S BODY. ANIMAL IN VERY POOR CONDITION - EMACIATED, SCARRED AND A HEAVY LOAD OF CYAMID AMPHIPODS. BLACK LINE AROUND PEDUNCLE, 20 FT TRAILING; OBSERVED OFF SAN DIEGO ON 8/31, COMPLETELY DISENTANGLED OFF LOS ANGELES 9/6, STRANDED DEAD 9/14/12.	DEAD	L2	1

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	8	22	8/22/2012	GRAY WHALE	GILLNET FISHERY	VALDEZ-CORDOVA	AK	SI (PRORATE)	WHALE SIGHTED BY TOUR BOAT. FEW DETAILS, OTHER THAN PART OF A FISHING NET WAS OBSERVED BEING TRAILED FROM A GRAY WHALE'S FIN. PHOTOS APPARENTLY AVAILABLE, BUT HAVE NOT BEEN LOCATED. PRINCE WILLIAM SOUND. EXTENT AND SEVERITY OF ENTANGLEMENT UNKNOWN.	SI	L10	0.75
2012	10	13	10/13/2012	GRAY WHALE	GILLNET FISHERY	MENDOCINO	CA	SI	ENTANGLED ANIMAL REPORT; ANIMAL REPORTED WITH ROPE AROUND THE PEDUNCLE WHICH WASN'T SEEN IN PHOTOGRAPHS BUT PHOTOS DID SHOW GREEN GILLNET WITH CUTS TO THE HEAD; ANIMAL DISAPPEARED AND FINAL STATUS IS UNKNOWN	SI	L2	1
2008	2	7	2/7/2008	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	SANTA CRUZ	CA	SI	LIVE STRANDING; WHITE STRING AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, DISENTANGLED, TREATED & RELEASED)	NSI	P7B	NA
2009	3	29	3/29/2009	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	SI	LIVE STRANDING; BALLOON STRING WRAPPED AROUND SHOULDERS; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	5	4	5/4/2009	GUADALUPE FUR SEAL	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	6	15	6/15/2009	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	DEAD	DEAD STRANDING; GREEN NYLON NETTING AROUND NECK; STRETCHED NET MESH DIAMETER = 4 INCHES; CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	11	22	11/22/2009	GUADALUPE FUR SEAL	GILLNET FISHERY	COOS	OR	DEAD	ENTANGLED IN GREEN NETTING	DEAD	NA	NA
2010	1	16	1/16/2010	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	SI	ANIMAL DIED IN REHAB	DEAD	NA	NA
2010	6	14	6/14/2010	GUADALUPE FUR SEAL	GILLNET FISHERY	PACIFIC	WA	DEAD	HEAD ENTANGLED IN NETTING	DEAD	NA	NA
2011	1	25	1/25/2011	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	SI	FISHING ENTANGLEMENT; AROUND NECK BUT NOT EMBEDDED; 2 HOOKS IN LEFT REAR FLIPPER ON DORSAL AND ONE VENTRAL, TRANSFERRED TO REHABILITATION CENTER, FINAL STATUS UNKNOWN	SI	P7B	NA
2011	5	6	5/6/2011	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	DEAD	ENTANGLED AROUND SHOULDERS WITH BALLOON RIBBON, ADVANCED DECOMPOSITION - RIBBON DID NOT PENETRATE SKIN	DEAD	NA	NA
2011	6	9	6/9/2011	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	WHITE BALLOON STRING AROUND NECK. ANIMAL DIED IN REHAB	DEAD	P8A	NA
2011	6	18	6/18/2011	GUADALUPE FUR SEAL	GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	SI	ANIMAL ENTANGLED IN GREEN TWINE / NETTING. NETTING HAD BARNACLES ON IT, INDICATIVE OF GHOST NETTING / MARINE DEBRIS	SI	P8A	NA
2011	7	1	7/1/2011	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	GRAY'S HARBOR	WA	DEAD	NA	DEAD	NA	NA
2011	7	18	7/18/2011	GUADALUPE FUR SEAL	GILLNET FISHERY	JEFFERSON	WA	DEAD	CUTS ON ANIMAL SUGGESTIVE OF ENTANGLING NET FISHERY INTERACTION	DEAD	NA	NA
2012	5	25	5/25/2012	GUADALUPE FUR SEAL	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SONOMA	CA	SI	DARK GREEN ENTANGLEMENT AROUND LOWER NECK/UPPER SHOULDER AREA - NO EMBEDDED, EMACIATED. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.	NSI	P8A	NA
2012	5	29	5/29/2012	GUADALUPE FUR SEAL	BLUNT FORCE TRAUMA	CLATSOP	OR	DEAD	TREMENDOUS HEMORRHAGE AT AXILLA AND PELVIC AREAS; SOME ORGAN HEMORRHAGING; BLOOD IN THORACIC CAVITY.	DEAD	NA	NA
2012	6	9	6/9/2012	GUADALUPE FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	SI	MARINE DEBRIS; ORANGE LINE LOOKED LIKE BALING TWINE, ORANGE PLASTIC LINE WRAPPED TIGHTLY AROUND THORAX AT SHOULDERS, WAS DISENTANGLED BY VOLUNTEERS; ANIMAL WAS ALERT AND RESPONSIVE THROUGHOUT, MADE ITS WAY BACK OUT TO WATER; NO FURTHER REPORTS RECEIVED; APPEARS THIN IN PHOTOS.	SI	P1, P7B	NA

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2012	6	8	6/8/2012	GUADALUPE FUR SEAL	GILLNET FISHERY	TILLAMOOK	OR	NSI	ANIMAL VERY FEISTY AND ACTIVE. ANIMAL ENTANGLED AROUND NECK IN BLUE NET, NO OBVIOUS INJURIES, ANIMAL QUICKLY RETURNED TO OCEAN AFTER DISENTANGLEMENT.	NSI	P7B	NA
2012	6	19	6/19/2012	GUADALUPE FUR SEAL	SHOOTING	PACIFIC	WA	DEAD	BULLET HOLES WITH ASSOCIATED HEMORRHAGING IN BODY. LEFT LUNG DAMAGED BY BULLET, BLOOD IN THORACIC, ABDOMINAL, AND PERICARDIAL CAVITIES, INTESTINES VERY TWISTED.	DEAD	NA	NA
2012	6	18	6/18/2012	GUADALUPE FUR SEAL	MARINE DEBRIS INGESTION	GRAY'S HARBOR	WA	DEAD	CLEAR PLASTIC PIECE 2 X 8 INCHES IN SIZE RECOVERED FROM STOMACH AND ESOPHAGUS.	DEAD	NA	NA
2012	6	28	6/28/2012	GUADALUPE FUR SEAL	UNIDENTIFIED NET FISHERY ENTANGLEMENT	PACIFIC	WA	DEAD	ENTANGLEMENT IN GREEN TRAWL NET WITH SIGNIFICANT TRAUMA AROUND NECK, ALSO FOUND STYROFOAM IN STOMACH. DETAILED INTERNAL AND EXTERNAL EXAM.	DEAD	NA	NA
2008	5	24	5/24/2008	HARBOR PORPOISE	GILLNET FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; APPEARS TO BE MONOFILAMENT NET SCARRING ALONG TAILSTOCK, WITH ASSOCIATED HEMORRHAGING IN BLUBBER UNDER SURFACE MARKINGS	DEAD	NA	NA
2008	7	25	7/25/2008**	HARBOR PORPOISE	NORTHERN WASHINGTON MARINE DRIFT GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT.	DEAD	NA	NA
2008	8	11	8/11/2008**	HARBOR PORPOISE	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT.	DEAD	NA	NA
2008	8	11	8/13/2008**	HARBOR PORPOISE	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT.	DEAD	NA	NA
2008	8	26	8/26/2008	HARBOR PORPOISE	GILLNET FISHERY	SAN LUIS OBISPO	CA	DEAD	CARCASS; GILLNET-LIKE IMPRINT ON CAUDAL PEDUNCLE	DEAD	NA	NA
2008	12	31	12/31/2008*	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; INDENTATIONS ALONG DORSAL TAILSTOCK, POSSIBLE CORRESPONDING MARKS ON VENTRAL SIDE; SIMILAR INDENTATIONS AT TRAILING EDGE OF DORSAL FIN; EXCELLENT BODY CONDITION; CAUSE OF DEATH ACUTE, PROBABLE ENTANGLEMENT/DROWNING -CONFIRMED BY HISTOPATHOLOGY RESULTS	DEAD	NA	NA
2009	3	23	3/23/2009	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	CARCASS; PATTERNS OF HEMORRHAGE; BLOOD IN THORAX AND ABDOMEN; FOAM IN LUNGS AND RIB MARKS ON RIGHT AND LEFT LUNGS	DEAD	NA	NA
2009	4	9	4/9/2009	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	CARCASS; LINE MARKS, CUTS, EXTENSIVE HEMORRHAGE, AND BRUISING; BLOODY FOAM IN TRACHEA; RIB MARKS ON LUNGS	DEAD	NA	NA
2009	4	26	4/26/2009	HARBOR PORPOISE	MARINE DEBRIS ENTANGLEMENT	KING	WA	DEAD	CARCASS; EXCELLENT BODY CONDITION; WIDE INDENTATION ON TAILSTOCK (FROM 5/8-INCH-WIDE ROPE), EXTENDING HALFWAY UP LEFT SIDE; ASSOCIATED HEMORRHAGE IN BLUBBER UNDERNEATH	DEAD	NA	NA
2009	8	11	8/11/2009	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	CARCASS; EXTENSIVE BRUISING; FOAM IN TRACHEA; CUTS AROUND HEAD; RIGHT FLUKE AND FLIPPER CUT OFF	DEAD	NA	NA
2009	8	26	8/26/2009	HARBOR PORPOISE	MARINE DEBRIS ENTANGLEMENT	KITSAP	WA	SI	REPEATED LIVE STANDINGS; NO SIGNS OF ENTANGLEMENT AROUND MOUTH/FLIPPERS/DORSAL FIN; SIGNS OF ENTANGLEMENT ON TAILSTOCK; DIED DURING TRANSPORT	DEAD	S1	NA
2009	10	20	10/20/2009	HARBOR PORPOISE	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; MARKS CONSISTENT WITH MONOFILAMENT LINE AROUND MOUTH	DEAD	NA	NA

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2009	10	20	10/20/2009	HARBOR PORPOISE	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; EVIDENCE OF FRESH MONOFILAMENT INJURIES	DEAD	NA	NA
2009	10	22	10/22/2009	HARBOR PORPOISE	SALMON GILLNET FISHERY	JEFFERSON	WA	DEAD	CARCASS; MONOFILAMENT IMPRESSIONS ON ROSTRUM, PECTORAL FINS, TAILSTOCK, AND FLUKES	DEAD	NA	NA
2010	1	4	1/4/2010	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	CLALLAM	WA	DEAD	CARCASS; POSSIBLE ENTANGLEMENT INJURIES ON LOWER JAW WITH CORRESPONDING HEMORRHAGE; INTERNAL EVIDENCE OF DROWNING	DEAD	NA	NA
2010	2	23	2/23/2010	HARBOR PORPOISE	MARINE DEBRIS ENTANGLEMENT	GRAYS HARBOR	WA	DEAD	CARCASS. GOOD BODY CONDITION. TWO ENTANGLEMENT SCARS ON TAILSTOCK WITH HEMORRHAGE UNDERNEATH	DEAD	NA	NA
2010	7	4	7/4/2010	HARBOR PORPOISE	MARINE DEBRIS ENTANGLEMENT	CLATSOP	OR	DEAD	CARCASS; LINE MARKS ON FLIPPERS AND ALONG RIGHT SIDE; RIB MARKS ON LUNGS; BLOODY FOAM FROM BLOWHOLE; BLOOD IN ABDOMINAL CAVITY	DEAD	NA	NA
2010	7	10	7/10/2010	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	CLATSOP	OR	DEAD	CARCASS; FISHING LINE/NET MARKS ON FIN AND FLUKE EDGES; BLOOD IN PERICARDIUM AND THORACIC AND ABDOMINAL CAVITIES	DEAD	NA	NA
2010	10	17	10/17/2010*	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	KITSAP	WA	DEAD	CALF CARCASS FOUND ON BEACH 2 DAYS AFTER LACTATING ADULT FEMALE HARBOR PORPOISE STRANDED APPROXIMATELY 3 MILES NORTH. TWO LINE SCARS AROUND HEAD AT GAPE	DEAD	NA	NA
2010	10	21	10/21/2010	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	KITSAP	WA	DEAD	CARCASS; NUMEROUS ENTANGLEMENT SCARS, IMPRESSIONS AND LACERATIONS, WITH ASSOCIATED HEMORRHAGE	DEAD	NA	NA
2011	1	2	1/2/2011	HARBOR PORPOISE	VESSEL STRIKE	LINCOLN	OR	DEAD	CARCASS; RIGHT LOBE OF FLUKE CUT OFF CLEANLY; OTHER LACERATIONS INDICATE PROPELLER WOUNDS	DEAD	NA	NA
2011	1	27	1/27/2011	HARBOR PORPOISE	RESEARCH ENTANGLEMENT	MONTEREY	CA	NSI	HARBOR PORPOISE BECAME ENTANGLED IN SEABIRD RESEARCH NET DURING RETRIEVAL. ANIMAL WAS IMMEDIATELY FREED OF NET AND SPENT LESS THAN 2 MINUTES ENTANGLED. PORPOISE SWAM AWAY STRONGLY.	NSI	S7B	NA
2011	5	5	5/5/2011	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	PACIFIC	WA	DEAD	CARCASS; SUBSTANTIAL FOAM IN TRACHEA; SEROUS FLUID IN PLEURAL CAVITY; THORACIC ORGANS BRUISED; EXTERNAL MARKS (NET?) AND RUBBED AREAS. EXCELLENT BODY CONDITION.	DEAD	NA	NA
2011	5	14	5/14/2011	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	PACIFIC	WA	DEAD	CARCASS; SUBSTANTIAL BLOODY FOAM FROM BLOWHOLE AND IN TRACHEA; INDENTATIONS ALONG PEDUNCLE AND MARKS NEAR FLIPPERS	DEAD	NA	NA
2011	5	27	5/27/2011	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	CARCASS; MANY PARALLEL CUTS ACROSS ANIMAL, TREMENDOUS hemorrhaging. UPPER JAW TIP BROKEN	DEAD	NA	NA
2011	6	3	6/3/2011	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	CARCASS; MANY PARALLEL CUTS ACROSS ANIMAL, TREMENDOUS hemorrhaging	DEAD	NA	NA
2011	9	8	9/8/2011	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	TILLAMOOK	OR	DEAD	CARCASS; SMALL CUTS ON PEDUNCLE; TRAUMA TO HEAD; FOAM IN LUNGS; ANIMAL VERY THIN WITH REDUCED MUSCLE MASS; LOWER SMALL INTESTINES SEEMED DECOMPOSED, ALMOST NECROTIC; URINE BLOODY	DEAD	NA	NA
2011	9	19	9/19/2011	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	CARCASS; DORSAL FIN CUT OFF; GROOVED MARKS ON DORSAL PEDUNCLE; BLOOD IN THORACIC AND ABDOMINAL CAVITIES; PERFORATED ULCER IN DUODENUM; SOME ORGANS AND LEFT SIDE OF BODY HEMORRHAGED.	DEAD	NA	NA
2012	1	16	1/16/2012	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	PACIFIC	WA	DEAD	CARCASS; EXCELLENT BODY CONDITION; LINEAR INDENTATIONS ALONG DORSAL PEDUNCLE; LOTS OF FOAM IN RIGHT LUNG; RIB MARK BRUISING ON LUNGS	DEAD	NA	NA
2012	2	3	2/3/2012	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	CLATSOP	OR	DEAD	CARCASS; LINEAR MARKS ALONG DORSAL PEDUNCLE; HEMORRHAGE ON HEAD, NECK, AND VARIOUS AREAS OF BODY	DEAD	NA	NA

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2012	3	7	3/7/2012	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	LINCOLN	OR	DEAD	CARCASS; SEVERE LINEAR GASHES ON LEFT SIDE OF CAUDAL PEDUNCLE; PARTIALLY SEVERED LEFT LOBE OF FLUKE FLACCID, APPEARS NECROTIC	DEAD	NA	NA
2012	3	24	3/24/2012	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	KING	WA	DEAD	CARCASS; CIRCULAR LINEAR IMPRESSION AT SNOUT; LEFT UPPER JAW AND LOWER JAW MISSING, BUT INJURY MOSTLY HEALED; ANIMAL THIN; FROTH FROM MOUTH	DEAD	NA	NA
2012	6	5	6/5/2012	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	CARCASS; GOOD TO EXCELLENT BODY CONDITION; THREE GASHES ON PEDUNCLE; POSSIBLE GASHES ON FLUKE; RUBBED AREAS ON HEAD; TEETH IN LOWER JAW DISPLACED; HEMORRHAGE ON HEAD AND LEFT MID-THORAX; LUNGS DENSE	DEAD	NA	NA
2012	6	24	6/24/2012	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	CLATSOP	OR	DEAD	CARCASS; RUBBED AREAS AND HEMORRHAGE ON VARIOUS AREAS OF HEAD AND BODY; ODD (KNIFE?) CUTS AND DIAGONAL, FINE-LINED, LINEAR-PATTERNED AREA ON BODY; LEFT LUNG HEAVY AND PALE	DEAD	NA	NA
2012	8	16	8/16/2012	HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	CARCASS; EXCELLENT BODY CONDITION; SERIES OF NON-PARALLEL CUTS AND TWO GASHES ON BODY; BLOOD IN EYES AND FROM BLOWHOLE; HEMORRHAGE ON HEAD AND SIDES OF BODY; FOAM IN LUNGS AND TRACHEA; BLOOD IN ABDOMEN; MILK IN STOMACH AND ESOPHAGUS	DEAD	NA	NA
2012	10	31	10/31/2012	HARBOR PORPOISE	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; ENTANGLED IN FREE-FLOATING GILLNET	DEAD	NA	NA
2012	10	31	10/31/2012	HARBOR PORPOISE	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; TAIL STOCK/FLUKE SEVERED; WHITE FROTH FROM BLOWHOLE; MULTIPLE LINEAR IMPRESSIONS LEADING INTO DEEP LACERATION ON RIGHT FLIPPER; RIGHT EYE PERFORATED AND PENETRATING LACERATION APPROXIMATELY 3 CM BELOW EYE; MULTIPLE NET IMPRESSIONS, ESPECIALLY ON HEAD, FLIPPER, AND DORSAL SURFACE; FOUR PENETRATING (LIKELY GAFF) WOUNDS; PARTIALLY DIGESTED FISH IN STOMACH; FOUND NEAR FREE-FLOATING GILLNET	DEAD	NA	NA
2012	11	1	11/1/2012	HARBOR PORPOISE	GILLNET FISHERY	SAN JUAN	WA	DEAD	CARCASS; OBSERVED ENTANGLEMENT IN GILLNET FISHERY	DEAD	NA	NA
2012	11	3	11/3/2012	HARBOR PORPOISE	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; MONOFILAMENT LINE MARKS AROUND JAW, ROSTRUM, AND HEAD; TRAILING EDGE OF LEFT PECTORAL FIN SHEARED OFF; WRAP MARK AROUND DORSAL FIN TIP AND LEADING EDGE OF FLUKES; FROTH FROM BLOWHOLE	DEAD	NA	NA
2012	11	5	11/5/2012	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	KITSAP	WA	DEAD	CARCASS; SLICE OF SKIN MISSING ON LEFT POSTERIOR SIDE OF FLIPPER (SIMILAR TO THREE OTHER RECENT PORPOISE STRANDINGS); VERY FAINT V-SHAPED IMPRESSION ON ROSTRUM; POSSIBLE NEW INDENTATIONS IN BOTH FLUKE AND FLIPPER; HEALED SCARS ON TAIL STOCK	DEAD	NA	NA
2012	11	6	11/6/2012	HARBOR PORPOISE	UNIDENTIFIED NET FISHERY	ISLAND	WA	DEAD	CARCASS; LINE IMPRESSIONS AROUND HEAD AND TAIL STOCK; V-SHAPED IMPRESSION ON LEADING EDGE AND ACROSS WIDTH OF PECTORAL FIN; ANOTHER IMPRESSION WRAPPED AROUND THE MIDDLE OF ONE FLUKE; REGURGITATED FISH IN ESOPHAGUS	DEAD	NA	NA
2008	3	4	3/4/2008	HARBOR SEAL	SHOOTING	SAN JUAN	WA	DEAD	CARCASS; RECOVERED ONE 00 BUCKSHOT BB UNDER SKIN; 5 OR 6 ADDITIONAL HOLES IN BACK AND SIDE	DEAD	NA	NA
2008	3	5	3/5/2008	HARBOR SEAL	MARINE DEBRIS ENTANGLEMENT	SAN FRANCISCO	CA	SI	LIVE ANIMAL ON HARBOR SEAL ROOKERY; PLASTIC STRAP AROUND NECK; NO RESCUE EFFORT INITIATED DUE TO PRESENCE OF OTHER ANIMALS; FINAL STATUS UNKNOWN	SI	P8A	NA
2008	4	4	4/4/2008	HARBOR SEAL	MARINE DEBRIS ENTANGLEMENT	MONTEREY	CA	SI	LIVE ANIMAL HAULED OUT ON OFFSHORE ROCK; PACKING STRAP AROUND NECK; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI	P8A	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	4	12	4/12/2008	HARBOR SEAL	HARASSMENT	MONTEREY	CA	SI	LIVE STRANDING; FRACTURED SCAPULA; PRIVATE CITIZEN GRABBED ANIMAL BY REAR FLIPPERS, PULLED IT FROM ROCKY AREA & ATTEMPTED TO THROW IT BACK INTO WATER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	SI	P10	NA
2008	4	15	4/15/2008	HARBOR SEAL	GILLNET FISHERY	SANTA BARBARA	CA	SI	LIVE ANIMAL ON HARBOR SEAL ROOKERY; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL CAPTURED, DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2008	4	15	4/15/2008	HARBOR SEAL	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE ANIMAL ON HARBOR SEAL ROOKERY; FISHING LURE IN CHIN; NO RESCUE EFFORT INITIATED DUE TO PRESENCE OF OTHER ANIMALS; FINAL STATUS UNKNOWN	SI	P5B	NA
2008	4	17	4/17/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	4	17	4/17/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	4	27	4/27/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	5	5/5/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	5	5/5/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	5	5/5/2008	HARBOR SEAL	GILLNET FISHERY	SAN DIEGO	CA	SI	LIVE ANIMAL ON HARBOR SEAL ROOKERY; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL CAPTURED, DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2008	5	10	5/10/2008	HARBOR SEAL	VESSEL STRIKE	MARIN	CA	DEAD	CARCASS; PROPELLER-LIKE WOUNDS TO BODY	DEAD	NA	NA
2008	5	15	5/15/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	19	5/19/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	19	5/19/2008	HARBOR SEAL	OIL SPILL	ORANGE	CA	SI	LIVE STRANDING; 60% OF BODY COVERED WITH BUNKER TAR; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P9	NA
2008	5	23	5/23/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	27	5/27/2008	HARBOR SEAL	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOKS IN REAR FLIPPERS & THROUGH NOSE; MORTALITY (EUTHANIZED IN REHAB DUE TO FISH HOOK WOUNDS)	DEAD	P5B	NA
2008	5	28	5/28/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	5	31	5/31/2008	HARBOR SEAL	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; FISH HOOKS IN LEFT LOWER CORNER OF MOUTH & UPPER LIP; MORTALITY (DIED IN REHAB, CAUSE OF DEATH = STARVATION, NECROPSY REVEALED NUMEROUS FISH HOOKS IN STOMACH MUCOSA)	DEAD	P2	NA
2008	6	3	6/3/2008	HARBOR SEAL	GILLNET FISHERY	SANTA BARBARA	CA	DEAD	CARCASS FLOATING IN KELP BED WRAPPED IN GILLNET MASS	DEAD	NA	NA
2008	6	4	6/4/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	6	19	6/19/2008	HARBOR SEAL	GAFF INJURY	SANTA BARBARA	CA	SI	LIVE STRANDING; GAFF HOOK IN BODY; MORTALITY (ANIMAL DIED DURING TRANSPORT TO REHAB)	DEAD	P12	NA
2008	6	28	6/28/2008	HARBOR SEAL	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE ANIMAL REELED IN TO JETTY BY FISHERMAN, LINE SNAPPED CAUSING SUPERFICIAL CUT TO RIGHT SIDE OF FACE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)	NSI	P5C	NA
2008	7	24	7/24/2008**	HARBOR SEAL	NORTHERN WASHINGTON MARINE DRIFT GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	7	27	7/27/2008	HARBOR SEAL	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE ANIMAL ON ROOKERY; FISH HOOK IN MOUTH WITH ATTACHED FISHING LINE WRAPPED AROUND & CUTTING INTO ANIMAL'S NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED).	NSI	P5C	NA
2008	7	28	7/28/2008	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT.	DEAD	NA	NA
2008	8	11	8/13/2009**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA
2008	8	4	8/4/2008	HARBOR SEAL	SHOOTING	SAN JUAN	WA	DEAD	CARCASS; APPEARED TO HAVE BEEN SHOT; X-RAY DETECTED METAL PIECES IN HEAD; SOME METAL FRAGMENTS WERE EXTRACTED	DEAD	NA	NA
2008	8	14	8/14/2008	HARBOR SEAL	SHOOTING	SKAGIT	WA	DEAD	CARCASS; APPEARED TO BE SMALL-CALIBER BULLET HOLE (DISCRETE 2-MM PUNCTURE HOLE) IN LEFT LATERAL NECK; MOUTH FULL OF CLOTTED BLOOD AND EXTENSIVE HEMORRHAGING IN INTERNAL NECK AREA AND BASE OF SKULL; NO BALLISTICS FOUND	DEAD	NA	NA
2008	8	22	8/22/2008	HARBOR SEAL	UNIDENTIFIED NET FISHERY	PIERCE	WA	DEAD	CARCASS; PUP WAS REMOVED FROM DERELICT NET	DEAD	NA	NA
2008	8	24	8/24/2008	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	SI	LIVE ANIMAL CAUGHT IN TRIBAL GILL NETTING; NETS WERE TIGHT AROUND ITS NECK AND IT WAS STRUGGLING	SI	P8A	NA
2008	8	24	8/24/2008	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	DEAD	CARCASS; CAUGHT IN TRIBAL FISHING GEAR	DEAD	NA	NA
2008	8	24	8/24/2008	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	DEAD	CARCASS; CAUGHT IN TRIBAL FISHING GEAR	DEAD	NA	NA
2008	8	25	8/25/2008	HARBOR SEAL	GILLNET FISHERY	PIERCE	WA	DEAD	CARCASS; SEAL PULLED OUT OF SET GILLNET THAT WAS UNATTENDED FOR AT LEAST 48 HRS	DEAD	NA	NA
2008	8	28	8/28/2008	HARBOR SEAL	VESSEL STRIKE	SAN JUAN	WA	SI	LIVE PUP REPORTED ON STUART ISLAND ON AUG 22 WITH WOUNDS CONSISTENT WITH PROPELLER WOUNDS: EVENLY SPACED, CLEAN, DEEP CUTS. PUP FOUND DEAD ON BEACH AUG 28.	DEAD	P15	NA
2008	9	10	9/10/2008**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA
2008	9	11	9/11/2008**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	TRIBAL OBSERVER PROGRAM	DEAD	NA	NA
2008	9	2	9/2/2008	HARBOR SEAL	RESEARCH ENTANGLEMENT	SOLANO	CA	DEAD	CARCASS RETRIEVED FROM CDFG STURGEON RESEARCH TRAMMEL NET	DEAD	NA	NA
2008	9	12	9/12/2008	HARBOR SEAL	RESEARCH ENTANGLEMENT	PIERCE	WA	DEAD	DIED IN RESEARCH NET	DEAD	NA	NA
2008	10	5	10/5/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	11	4	11/4/2008	HARBOR SEAL	GILLNET FISHERY	ISLAND	WA	DEAD	CARCASS; CAUGHT IN DRIFT GILLNET	DEAD	NA	NA
2008	11	4	11/4/2008	HARBOR SEAL	VESSEL STRIKE	LINCOLN	OR	DEAD	CARCASS; HEAD CRACKED OPEN CAUDALLY, BRAIN EXPOSED; PROPELLER INJURY; PARALLEL AREAS OF FUR LOSS AND LACERATIONS ON DORSUM	DEAD	NA	NA
2008	11	20	11/20/2008	HARBOR SEAL	GILLNET FISHERY, TRIBAL	PIERCE	WA	DEAD	CARCASS PULLED FROM TRIBAL NET	DEAD	NA	NA
2008	11	22	11/22/2008	HARBOR SEAL	SHOOTING	WHATCOM	WA	DEAD	CARCASS; SMALL CALIBER HIGH VELOCITY GUN WOUND; ENTRANCE ON RIGHT SIDE, HIGH ON SKULL; EXIT ON LEFT SIDE, HIGH ON SKULL	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

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2008	11	28	11/28/2008	HARBOR SEAL	SHOOTING	SAN JUAN	WA	DEAD	CARCASS; X-RAYS SHOWED AT LEAST 4 PELLETS IN ABDOMEN AREA	DEAD	NA	NA
2008	12	15	12/15/2008	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2008	NA	NA	2008**	HARBOR SEAL	WEST COAST GROUND FISH TRAWL (PACIFIC HAKE AT-SEA PROCESSING COMPONENT) FISHERY	NA	WA/OR	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	NA	NA	2008**	HARBOR SEAL	WEST COAST GROUND FISH TRAWL (PACIFIC HAKE AT-SEA PROCESSING COMPONENT) FISHERY	NA	WA/OR	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	NA	NA	2008**	HARBOR SEAL	WEST COAST GROUND FISH NEARSHORE FIXED GEAR FISHERY	NA	OR	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	NA	NA	2008**	HARBOR SEAL	WEST COAST GROUND FISH NEARSHORE FIXED GEAR FISHERY	NA	OR	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	1	13	1/13/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	3	10	3/10/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	12	5/12/2009	HARBOR SEAL	HOOK & LINE FISHERY	ORANGE	CA	SI	LIVE STRANDING; 3 FISH HOOKS IN FACE; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	5	16	5/16/2009	HARBOR SEAL	SALMON RESEARCH TRAWL	ISLAND	WA	NSI	LIVE PUP IN TRAWL NET; PUP WAS ROLLED OUT OF NET AS NET WAS RETRIEVED; SWAM AWAY UNHARMED	NSI	P7B	NA
2009	5	16	5/16/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	17	5/17/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	22	5/22/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	24	5/24/2009	HARBOR SEAL	HOOK & LINE FISHERY	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOKS IN CHIN & RIGHT FRONT FLIPPER; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	6	10	6/10/2009	HARBOR SEAL	GILLNET FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = PNEUMONIA)	DEAD	P8A	NA
2009	6	16	6/16/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	6	26	6/26/2009	HARBOR SEAL	HOOK & LINE FISHERY	SAN FRANCISCO	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN MOUTH; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	7	9	7/9/2009**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA
2009	7	4	7/4/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	7	5	7/5/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	7	20	7/20/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	7	31	7/31/2009	HARBOR SEAL	DOG ATTACK	PIERCE	WA	SI	DOG GRABBED LIVE PUP AND TOOK OFF WITH IT	DEAD	P9	NA
2009	8	11	8/11/2009*	HARBOR SEAL	HOOK & LINE FISHERY	THURSTON	WA	NSI	REPORT OF LIVE ANIMAL WITH FISHING LINE AND HOOK STUCK IN LIP; ANIMAL DIED AND WASHED OFF LOG BOOMS BEFORE IT COULD BE EXAMINED	DEAD	P5B	NA
2009	8	8	8/8/2009	HARBOR SEAL	DOG ATTACK	KITSAP	WA	SI	LIVE ANIMAL ATTACKED BY DOGS; TAKEN INTO REHAB AND DIED DUE TO INFECTED PUNCTURE WOUNDS	DEAD	P9	NA
2009	8	10	8/10/2009	HARBOR SEAL	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN CHIN/THROAT AREA, LINE WRAPPED AROUND BODY; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P5C	NA
2009	8	10	8/10/2009	HARBOR SEAL	GAFF INJURY	KITSAP	WA	DEAD	CARCASS; LEFT EYE PROPTOSED, SWELLING ON LEFT SIDE OF HEAD, CAUDAL SKULL FRACTURE, AND HEMATOMA; HOLE IN LEFT SIDE OF HEAD (THROUGH SKIN AND SKULL) MOST LIKELY CAUSED BY GAFF; BLEEDING FROM NOSTRILS	DEAD	NA	NA
2009	8	18	8/18/2009	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	8	20	8/20/2009	HARBOR SEAL	SHOOTING	CLATSOP	WA	DEAD	CARCASS; BULLET HOLES IN THORAX; TREMENDOUS BRUISING ACROSS BACK; SMASHED NOSE	DEAD	NA	NA
2009	9	1	9/1/2009	HARBOR SEAL	HOOK & LINE FISHERY	PIERCE	WA	SI	LIVE STRANDING; FISH HOOK IN MOUTH; HOOK REMOVED AND ANIMAL RELEASED	NSI	P5C	NA
2009	9	21	9/21/2009	HARBOR SEAL	VESSEL STRIKE	WHATCOM	WA	DEAD	CARCASS; LARGE LACERATIONS ON FOREFLIPPER	DEAD	NA	NA
2009	9	30	9/30/2009	HARBOR SEAL	VESSEL STRIKE	WHATCOM	WA	DEAD	CARCASS; SLASHES, GASHES, AND MARKS ALONG SIDE AND BACK	DEAD	NA	NA
2009	10	3	10/3/2009	HARBOR SEAL	HOOK & LINE FISHERY	PIERCE	WA	DEAD	CARCASS; FISH HOOK LODGED IN STOMACH ATTACHED TO LINE THROUGHOUT GI TRACT	DEAD	NA	NA
2009	10	6	10/6/2009	HARBOR SEAL	HOOK & LINE FISHERY	SAN MATEO	CA	DEAD	DEAD STRANDING; FIELD EXAMINATION REVEALED FISH HOOK IN ESOPHAGUS; CARCASS EXAMINED BY CAS PERSONNEL	DEAD	NA	NA
2009	10	27	10/27/2009	HARBOR SEAL	SHOOTING	GRAYS HARBOR	WA	DEAD	CARCASS; BULLET FOUND IN CHEST CAVITY; ANIMAL APPEARED TO HAVE BEEN SHOT ABOVE RIGHT SHOULDER, THEN BULLET WENT THROUGH RIBCAGE AND PENETRATED HEART AND LUNGS	DEAD	NA	NA
2009	11	14	11/14/2009*	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA
2009	11	12	11/12/2009	HARBOR SEAL	SALMON GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; CAUGHT IN LOST/ABANDONED CHUM SALMON GILLNET (20-30 YEAR OLD NET) FOUND ON SEAFLOOR. GEAR HAD BEEN LOCATED WITH CAMERA AND DESIGNATED FOR DERELICT GEAR REMOVAL	DEAD	NA	NA
2009	12	15	12/15/2009*	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA
2009	12	15	12/15/2009*	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT	DEAD	NA	NA
2009	12	1	12/1/2009	HARBOR SEAL	GILLNET FISHERY	SAN JUAN	WA	DEAD	CARCASS; ONE OF 2 ANIMALS CAUGHT IN DERELICT GILLNET. FRESH DEAD.	DEAD	NA	NA
2009	12	1	12/1/2009	HARBOR SEAL	GILLNET FISHERY	SAN JUAN	WA	DEAD	CARCASS; ONE OF 2 ANIMALS CAUGHT IN DERELICT GILLNET. MODERATE DECOMPOSITION.	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	NA	NA	2009**	HARBOR SEAL	CA/OR/WA SABLEFISH POT FISHERY	NA	NA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	1	17	1/17/2010	HARBOR SEAL	SHOOTING	PIERCE	WA	DEAD	CARCASS; PENETRATING TRACKING WOUND IN NECK; LOTS OF HEMORRHAGING; BONE FRAGMENTS NEAR TRACKING WOUND; STOMACH FULL OF FISH	DEAD	NA	NA
2010	1	20	1/20/2010	HARBOR SEAL	HOOK & LINE FISHERY	MARIN	CA	DEAD	HOOK WITH 116 CENTIMETERS OF ATTACHED LINE & SINKERS IN PYLORUS; PERITONITIS; GASTRITIS	DEAD	NA	NA
2010	1	25	1/25/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT	DEAD	NA	NA
2010	1	26	1/26/2010	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	SAN DIEGO	CA	SI	PUP AND MOTHER SEPARATED DUE TO PUBLIC INTRUSION OF BEACH ROOKERY. ANIMAL RELEASED FROM REHAB.	NSI	P14	NA
2010	1	26	1/26/2010	HARBOR SEAL	UNIDENTIFIED NET FISHERY	KITSAP	WA	DEAD	DEAD SEAL FOUND IN DERELICT NET	DEAD	NA	NA
2010	2	19	2/19/2010	HARBOR SEAL	GILLNET FISHERY	KITSAP	WA	DEAD	MUMMIFIED/SKELETAL SEAL FOUND IN DERELICT GILLNET	DEAD	NA	NA
2010	2	20	2/20/2010	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	SAN DIEGO	CA	SI	PUP AND MOTHER SEPARATED DUE TO PUBLIC INTRUSION OF BEACH ROOKERY. ANIMAL EUTHANIZED IN REHAB.	DEAD	NA	NA
2010	3	12	3/12/2010	HARBOR SEAL	MARINE DEBRIS INGESTION	ORANGE	CA	SI	VOMITED PLASTIC WRAPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P2	NA
2010	3	18	3/18/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT	DEAD	NA	NA
2010	3	22	3/22/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	SI	2 ANIMALS FOUND AT THIS SITE ON THIS DATE ADULT WITH PUP FOUND IN COOLING STATION WATER SYSTEM, PUP RELEASED TO BEACH	SI	P14	NA
2010	3	22	3/22/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	IMMEDIATELY RELEASED AT SITE	NSI	P9	NA
2010	3	22	3/22/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	IMMEDIATELY RELEASED AT SITE	NSI	P9	NA
2010	3	22	3/22/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	2 ANIMALS FOUND AT THIS SITE ON THIS DATE ADULT WAS GOING TO BE RELEASED, BUT DIED IN TRANSIT TO SAN ONOFRE BEACH	DEAD	NA	NA
2010	3	30	3/30/2010	HARBOR SEAL	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	5	4/5/2010	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	SAN LUIS OBISPO	CA	SI	PUBLIC NETTED PUP. IN NET ALONGSIDE DOCK WHEN RESPONDERS ARRIVED. ANIMAL RELOCATED	SI	P14	NA
2010	4	8	4/8/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	4	9	4/9/2010	HARBOR SEAL	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	14	4/14/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	4	14	4/14/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	4	17	4/17/2010	HARBOR SEAL	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	HARBOR SEAL HAD A FISHING LURE IN IT'S LEFT FLIPPER WITH MONOFILAMENT LINE, A PIECE OF A LOBSTER TRAP AND A HOLDFAST FROM KELP. ONCE THESE ITEMS WERE SUCCESSFULLY REMOVED THE ANIMAL WAS RELEASED ON SITE. THE ANIMAL WAS IN GOOD BODY CONDITION.	NSI	P5C	NA
2010	4	19	4/19/2010	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	MARIN	CA	SI	PUP SEPARATED FROM MOTHER, TRANSPORTED AWAY FROM BEACH BY MEMBERS OF PUBLIC, DIED DURING TRANSPORT BACK TO BEACH	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	4	28	4/28/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AT SAN ONOFRE, IMMEDIATELY RELEASED ON SITE	NSI	P9	NA
2010	5	1	5/1/2010	HARBOR SEAL	HOOK & LINE FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; FISH HOOK AT BASE OF STOMACH	DEAD	NA	NA
2010	6	5	6/5/2010	HARBOR SEAL	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	6	30	6/30/2010	HARBOR SEAL	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	DEAD	WOUNDS FROM LINE EMBEDDED IN NECK (LINE NOT PRESENT)	DEAD	NA	NA
2010	7	3	7/3/2010	HARBOR SEAL	STAB WOUNDS	SANTA BARBARA	CA	DEAD	SHORT METAL SHANK SPEAR WAS LODGED SIDEWAYS IN THE ANIMAL WITH ABOUT 18" OF CABLE HANGING OUT OF THE ANIMAL	DEAD	NA	NA
2010	7	25	7/25/2010	HARBOR SEAL	HOOK & LINE FISHERY	KITSAP	WA	SI	LIVE PUP (ATTENDED BY FEMALE) WITH MONOFILAMENT LINE AROUND ITS NECK; ATTEMPTED TO CAPTURE USING SAFE BOAT BUT ANIMAL WENT INTO WATER	SI	P8A	NA
2010	8	2	8/2/2010	HARBOR SEAL	UNIDENTIFIED NET FISHERY	SAN JUAN	WA	DEAD	MUMMIFIED SKELETAL SEAL FOUND IN DERELICT NET	DEAD	NA	NA
2010	8	16	8/16/2010	HARBOR SEAL	VESSEL STRIKE	SAN JUAN	WA	DEAD	CARCASS; OBVIOUS PROPELLER WOUNDS ON FACE AND UPPER BODY, INCLUDING 3-CM LACERATION ON LEFT VENTRAL NECK AREA, 3.5 CM DEEP; 8.5-CM LACERATIONS THROUGH LOWER MANDIBLE, ACROSS ROSTRUM, AND INTO UPPER PALLET	DEAD	NA	NA
2010	8	23	8/23/2010	HARBOR SEAL	SHOOTING	MASON	WA	DEAD	CARCASS; BULLET FOUND IN SKULL; TRACK THROUGH RIGHT EYE SOCKET AND INTO NASAL CAVITY; BULLET FRAGMENTS SEEN IN RIGHT NASAL CAVITY VIA RADIOGRAPHS	DEAD	NA	NA
2010	8	24	8/24/2010	HARBOR SEAL	UNIDENTIFIED NET FISHERY	WHATCOM	WA	DEAD	FRESH DEAD PUP, BLEEDING FROM NOSE AND MOUTH, FOUND IN FISHING NET; DROWNED	DEAD	NA	NA
2010	8	29	8/29/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	9	10	9/10/2010**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	TRIBAL OBSERVER PROGRAM	DEAD	NA	NA
2010	9	10	9/10/2010**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	TRIBAL OBSERVER PROGRAM	DEAD	NA	NA
2010	9	10	9/10/2010**	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	TRIBAL OBSERVER PROGRAM	DEAD	NA	NA
2010	9	1	9/1/2010	HARBOR SEAL	HOOK & LINE FISHERY	KING	WA	SI	LIVE STRANDING; FOUR FISH HOOKS (MAYBE SIZE FOUR) IN ANIMAL (ONE ABOVE LEFT EYE, TWO IN LOWER LIP, AND ONE IN FORE FLIPPER) AND LACERATIONS ON HIND FLIPPERS; ANIMAL CAPTURED, HOOKS REMOVED, AND RELEASED; ALL HOOKS EASY TO REMOVE EXCEPT IN FLIPPER	NSI	P5C	NA
2010	9	2	9/2/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	9	7	9/7/2010	HARBOR SEAL	SHOOTING	WHATCOM	WA	DEAD	CARCASS; TRACKING WOUND THROUGH SKULL	DEAD	NA	NA
2010	9	15	9/15/2010	HARBOR SEAL	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	DEEP ENTANGLEMENT-LIKE LACERATIONS AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P7B	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	9	28	9/28/2010	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; ENTRY WOUND THROUGH RIGHT EYE; BULLET RETRIEVED FROM LEFT SIDE OF BACK OF SKULL, PROBABLE EXIT WOUND	DEAD	NA	NA
2010	11	11	11/11/2010	HARBOR SEAL	SHOOTING	TILLAMOOK	OR	SI	LIVE STRANDING; TWO CLEAR (BULLET) POINTS OF ENTRY INTO HEAD, EACH 0.4 CM IN DIAMETER, WITH ASSOCIATED TREMENDOUS HEMORRHAGE, CLOTTED BLOOD, AND BROKEN BONES (E.G. BULLA AND MASTOID PROCESS); EUTHANIZED AT SITE	DEAD	P9	NA
2010	12	3	12/3/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	12	4	12/4/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2010	12	21	12/21/2010	HARBOR SEAL	NON-FISHERY ENTANGLEMENT	THURSTON	WA	DEAD	REPORTED BY DIVE TEAM WHILE CUTTING PILINGS UNDERWATER AS PART OF THE DNR WOODARD BAY RESTORATION PROJECT. THE SEAL WAS ENTANGLED IN A LINE THAT WAS ATTACHED TO A BUOY MARKING A BROKEN PILE. THE BUOY AND LINE WERE ATTACHED.	DEAD	NA	NA
2010	12	28	12/28/2010	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	SAN ONOFRE POWER PLANT ENTRAINMENT, ANIMAL RELEASED ON SITE	NSI	P9	NA
2011	3	22	3/22/2011	HARBOR SEAL	MARINE DEBRIS ENTANGLEMENT	KITSAP	WA	SI	LIVE ANIMAL WITH ROPE OR LINE AROUND NECK AND TOP OF HEAD.	SI	P8A	NA
2011	4	2	4/2/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	SAN ONOFRE POWER PLANT ENTRAINMENT	DEAD	NA	NA
2011	4	21	4/21/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINED ANIMAL CAPTURED AND RELEASED	NSI	P9	NA
2011	4	25	4/25/2011	HARBOR SEAL	SHOOTING	MARIN	CA	DEAD	NECROPSY PERFORMED	DEAD	NA	NA
2011	4	29	4/29/2011	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	MONTEREY	CA	SI	VERY YOUNG PUP (1-2 INCH UMBILICUS PRESENT) ILLEGALLY REMOVED FROM BEACH BY MEMBER OF THE PUBLIC. BROUGHT TO REHABILITATION CENTER.	SI	P14	NA
2011	5	19	5/19/2011	HARBOR SEAL	HOOK & LINE FISHERY	LINCOLN	OR	SI	LIVE STRANDING; FISH HOOK IN MOUTH; ANIMAL CAPTURED; HOOK REMOVED, AND RELEASED	NSI	P5C	NA
2011	5	29	5/29/2011	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	MENDOCINO	CA	SI	DEPENDENT PUP ILLEGALLY REMOVED FROM BEACH. DIED DURING TRANSPORT BACK TO BEACH.	DEAD	P14	NA
2011	5	30	5/30/2011	HARBOR SEAL	HOOK & LINE FISHERY	TILLAMOOK	OR	SI	LIVE STRANDING; TREMBLING NOTED INITIALLY; CONVULSIONS AND VOMITING REPORTED JUST PRIOR TO DEATH; FISH HOOK WITH LURE AND LINE HAD PERFORATED INTESTINES; SUBSTANTIAL HEMORRHAGE THROUGHOUT	DEAD	P2	NA
2011	6	4	6/4/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL CAUGHT AND RELEASED FROM COOLING WATER INTAKE AREA	NSI	P9	NA
2011	6	7	6/7/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL CAUGHT AND RELEASED FROM COOLING WATER INTAKE AREA	NSI	P9	NA
2011	6	12	6/12/2011	HARBOR SEAL	GILLNET FISHERY	VENTURA	CA	SI	SEAL ENTANGLED IN GREEN MONOFILAMENT GILLNET. LACERATIONS AROUND NECK. NETTING REMOVED AND ANIMAL SENT TO REHAB FACILITY. FINAL STATUS UNKNOWN.	SI	P8A	NA
2011	7	4	7/4/2011	HARBOR SEAL	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	EXTREMELY THIN AND LETHARGIC. UNABLE TO LIFT HEAD AND OFFERED NO RESISTANCE WHEN PICKED UP. XRAY SHOWED FISH HOOK IN LOWER GI TRACT. TAKEN TO REHAB FACILITY. FINAL STATUS UNKNOWN.	SI	P2	NA
2011	7	9	7/9/2011	HARBOR SEAL	VESSEL STRIKE	CLATSOP	OR	DEAD	CARCASS; EXCELLENT BODY CONDITION; PROPELLER CUTS AT LEFT AXILLA AND LEFT ANKLE; TREMENDOUS HEMORRHAGING AROUND NECK, PROPELLER CUTS, AND PELVIC AREA	DEAD	NA	NA
2011	7	15	7/15/2011	HARBOR SEAL	HOOK & LINE FISHERY	WHATCOM	WA	DEAD	CARCASS FOUND WITH HOOK THROUGH LIP	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	7	26	7/26/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	8	1	8/1/2011	HARBOR SEAL	DOG ATTACK	LINCOLN	OR	SI	LIVE PUP REPORTEDLY ATTACKED BY THREE DOGS	DEAD	P9	NA
2011	8	1	8/1/2011	HARBOR SEAL	RESEARCH SCIENTIFIC LONGLINE	TILLAMOOK	OR	DEAD	CARCASS; CAUGHT ON HOOK OF IPHC (INTERNATIONAL PACIFIC HALIBUT COMMISSION) LONGLINE GEAR	DEAD	NA	NA
2011	8	11	8/11/2011	HARBOR SEAL	HOOK & LINE FISHERY	KING	WA	DEAD	CARCASS; PIECE OF FISHING LINE AND REMNANT OF HOOK FOUND IN LARGE INTESTINES	DEAD	NA	NA
2011	8	29	8/29/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	8	30	8/30/2011	HARBOR SEAL	VESSEL STRIKE	SKAGIT	WA	DEAD	CARCASS; CRESCENT-SHAPED GASH IN LEFT SIDE BELOW RIBS WITH INTERNAL ORGANS PROTRUDING, AS WELL AS GASH ON SIDE OF HEAD CAUSED BY SMALL BOAT PROPELLER; LEFT EYE GONE; SOME BLOOD IN MOUTH, BUT APPEARED THAT REST OF CARCASS HAD BLED OUT	DEAD	NA	NA
2011	9	5	9/5/2011	HARBOR SEAL	HOOK & LINE FISHERY	KING	WA	NSI	LIVE STRANDING; FISH HOOK IN FACE	NSI	P5B	NA
2011	9	8	9/8/2011	HARBOR SEAL	SHOOTING	ISLAND	WA	DEAD	CARCASS; GOOD BODY CONDITION; BULLET WOUND (30 MM X 20 MM) BEHIND LEFT EAR OPENING; EXIT WOUND (70 MM X 70 MM) 4.5 CM BELOW AND TO RIGHT OF RIGHT EAR; THIRD HOLE (40 MM) 27 MM DIRECTLY BELOW RIGHT EAR; NO BULLETS OR FRAGMENTS FOUND.	DEAD	NA	NA
2011	9	11	9/11/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	9	12	9/12/2011	HARBOR SEAL	SHOOTING	THURSTON	WA	DEAD	CARCASS; TRACKING WOUND ON LEFT SIDE OF TOP OF SKULL WITH ASSOCIATED HEMORRHAGING; TOP OF SKULL SHATTERED AND HEMORRHAGING IN BRAIN TISSUE	DEAD	NA	NA
2011	9	14	9/14/2011	HARBOR SEAL	UNIDENTIFIED FISHERY INTERACTION	SAN JUAN	WA	SI	PHOTO OF LIVE PUP SHOWED SOME FISHING GEAR ATTACHED TO ITS REAR FLIPPERS; ANIMAL NEVER LOCATED SO UNABLE TO EXAMINE	SI	P6	NA
2011	9	19	9/19/2011	HARBOR SEAL	GILLNET FISHERY, TRIBAL	KING	WA	NSI	LIVE ENTANGLEMENT IN TRIBAL FISHING NET; ANIMAL DISENTANGLED AND RELEASED	NSI	P7B	NA
2011	9	23	9/23/2011	HARBOR SEAL	PACIFIC WHITING TRAWL FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; BROUGHT IN WITH CARGO OF WHITING FISHING VESSEL; APPEARED TO HAVE DIED IN TRAWL NET OR IN CARGO HULL	DEAD	NA	NA
2011	9	25	9/25/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	9	29	9/29/2011	HARBOR SEAL	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS; LINEAR IMPRESSION ON BOTH EYES AND LINEAR HEMORRHAGE AT JAW; COMPOUND FRACTURE AND HEMORRHAGE INTO BRAIN AND SURROUNDING AREA; MULTIPLE SMALL CUTS AND KNICKS ON HIND FLIPPERS; CLOTTED BLOOD ON RIGHT SIDE OF HEAD; LEFT SIDE OF SKULL SMASHED WITH ASSOCIATED CREPITUS; PUNCTURE WOUNDS ON FORE FLIPPER	DEAD	NA	NA
2011	10	14	10/14/2011	HARBOR SEAL	GILLNET FISHERY	SAN DIEGO	CA	SI	ADULT HARBOR SEAL WITH FISHING NET DEEPLY CUTTING INTO NECK.	SI	P8A	NA
2011	10	16	10/16/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	SI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. CAPTURED AND DIED DURING TRANSPORT TO RELEASE SITE	DEAD	P9	NA
2011	10	25	10/25/2011	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; SMALL BULLET HOLE WITH ASSOCIATED HEMORRHAGING IN ABDOMEN; INTESTINES TIGHTLY TWISTED; LOTS OF FLUID IN ABDOMINAL AND THORACIC CAVITIES	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	10	30	10/30/2011	HARBOR SEAL	GILLNET FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; ENTANGLED IN MONOFILAMENT NET; CIRCULAR HOLE ON LEFT DORSAL SIDE OF THORACIC AREA (LIKELY GAFF RATHER THAN BULLET HOLE), WITH ABDOMEN CUT OPEN.	DEAD	NA	NA
2011	11	1	11/1/2011	HARBOR SEAL	GILLNET FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; ENTANGLED IN APPROXIMATELY 36-FT MONOFILAMENT NET WITH LEAD LINE ATTACHED AND TWINE THAT WAS USED TO REPAIR HOLES IN THE NET.	DEAD	NA	NA
2011	11	11	11/11/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2011	11	20	11/20/2011	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT INTO POWER GENERATING STATION; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM AND RELEASED	NSI	P9	NA
2011	11	20	11/20/2011	HARBOR SEAL	GILLNET FISHERY, TRIBAL	MASON	WA	DEAD	REPORTED TO NOAA BY TRIBE AS KILLED IN GILLNET	DEAD	NA	NA
2012	1	2	1/2/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ENTRAINMENT; ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. ANIMAL RELEASED AT BEACH WITH NO INJURIES.	NSI	P9	NA
2012	1	22	1/22/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	1	6	1/6/2012	HARBOR SEAL	SHOOTING	PIERCE	WA	DEAD	CARCASS; RADIOGRAPH SHOWED BULLET IN HEAD AND COMPOUND SKULL FRACTURE; MARKED HEMORRHAGE IN BRAIN CAVITY; STOMACH HAD PARTIALLY DIGESTED FISH	DEAD	NA	NA
2012	2	2	2/2/2012	HARBOR SEAL	HARASSMENT	SANTA BARBARA	CA	SI	UNWEANED PUP SEPARATED FROM MOTHER BY DOGS NOT UNDER CONTROL OF OWNER. ANIMAL DIED IN REHABILITATION CENTER.	DEAD	P14	NA
2012	2	6	2/6/2012	HARBOR SEAL	HARASSMENT	SANTA BARBARA	CA	SI	UNWEANED PUP SEPARATED FROM MOTHER BY DOGS NOT UNDER CONTROL OF OWNER. ANIMAL RELEASED FROM REHABILITATION CENTER. TAGGED WITH ROTOTAG # 17896	NSI	P14	NA
2012	2	11	2/11/2012	HARBOR SEAL	HARASSMENT	SANTA BARBARA	CA	SI	UNWEANED PUP SEPARATED FROM MOTHER BY DOGS NOT UNDER CONTROL OF OWNER. ANIMAL RELEASED FROM REHABILITATION CENTER. TAGGED WITH ROTOTAG # 17897	NSI	P15	NA
2012	2	24	2/24/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	2	4	2/4/2012	HARBOR SEAL	SHOOTING	LINCOLN	OR	DEAD	CARCASS; LIKELY GUNSHOT WOUND TO ORBITAL AREA OF LEFT EYE--SHATTERED ETHMOID, LACRIMAL, AND ZYGOMATIC BONES	DEAD	NA	NA
2012	3	3	3/3/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2012	3	10	3/10/2012	HARBOR SEAL	SHOOTING	CLATSOP	OR	DEAD	CARCASS; BULLET HOLES AND TRACKS WITH ASSOCIATED HEMORRHAGING	DEAD	NA	NA
2012	4	3	4/3/2012	HARBOR SEAL	HARASSMENT	SAN LUIS OBISPO	CA	NSI	HARASSED, ILLEGAL PICK-UP, TRANSFERRED TO REHAB FACILITY, TREATED AND RELEASED.	NSI	P9	NA
2012	4	5	4/5/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	4	9	4/9/2012	HARBOR SEAL	HARASSMENT	HUMBOLDT	CA	SI	HARBOR SEAL PUP WAS TAKEN HOME BY RESIDENT; TRANSFERRED TO REHAB FACILITY WHERE IT DIED. CAUSE OF DEATH: UMBILICAL ABCESS AND PERITONITIS	DEAD	P9	NA
2012	4	11	4/11/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. RELEASED TO BEACH WITHOUT INJURIES.	NSI	P9	NA
2012	4	13	4/13/2012	HARBOR SEAL	HARASSMENT	MONTEREY	CA	SI	HARASSED - ILLEGAL PICK UP AND TOOK TO RANGERS, 3" LONG WET UMBILICUS PRESENT, GOOD BODY CONDITION, NON-RESPONSIVE, NOT VOCAL, SHIVERING. ANIMAL BROUGHT TO REHAB FACILITY, WHERE IT DIED. MATERNAL SEPARATION.	DEAD	P14	NA
2012	4	20	4/20/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. RELEASED TO BEACH WITHOUT INJURIES.	NSI	P9	NA

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2012	4	24	4/24/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL FOUND IN POWER PLANT INTAKE SYSTEM	DEAD	NA	NA
2012	4	1	4/1/2012	HARBOR SEAL	HOOK & LINE FISHERY	KING	WA	DEAD	CARCASS; ENTANGLED IN MONOFILAMENT LINE	DEAD	NA	NA
2012	4	15	4/15/2012	HARBOR SEAL	HOOK & LINE FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; FISHING LINE FOUND IN INTESTINE OF ANIMAL; PERITONITIS AND BUNCHED UP INTESTINE AT LOCATION OF FISHING LINE OBSTRUCTION	DEAD	NA	NA
2012	5	12	5/12/2012	HARBOR SEAL	HARASSMENT	DEL NORTE	CA	NSI	ANIMAL WAS PICKED UP AND BROUGHT TO CENTER BY MEMBER OF THE PUBLIC, WHO WAS INSTRUCTED TO RETURN IT TO WHERE IT WAS FOUND. ANOTHER COUPLE THEN PICKED IT UP, RELOCATED IT TO ANOTHER AREA, THEN CALLED IT IN AS A STRANDING. TAGGED WITH ORANGE ROTOTAG #7553.	NSI	P9	NA
2012	5	23	5/23/2012	HARBOR SEAL	VESSEL STRIKE	DEL NORTE	CA	SI	SEVERE HEAD TRAUMA, LABORED BREATHING; COD: SEVERE HEAD TRAUMA; BOAT STRIKE CAUSING SEVERE HEAD TRAUMA AND BILATERAL MAXILLARY FRACTURES. ANIMAL DIED IN REHAB FACILITY.	DEAD	P15	NA
2012	5	19	5/19/2012	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; SHOT IN NECK/SCAPULAE AREAS; EXCELLENT BODY CONDITION; UTERUS DISTENDED; MILK IN MAMMARY GLANDS	DEAD	NA	NA
2012	5	21	5/21/2012	HARBOR SEAL	VEHICLE COLLISION	PACIFIC	WA	DEAD	CARCASS; CAUSE OF DEATH APPEARS TO BE TRAUMA FROM SMALL-WHEELED VEHICLE; LEFT EYE BULGING; TONGUE BITTEN; ABRASIONS ALL ALONG VENTRAL SIDE, HAIR RUBBED OFF IN 4-CM-WIDE, 51-CM-LONG STRIPE	DEAD	NA	NA
2012	6	14	6/14/2012	HARBOR SEAL	HOOK & LINE FISHERY	SAN FRANCISCO	CA	SI	A MEMBER OF THE PUBLIC SCOOPED THE ANIMAL OUT OF THE WATER WITH A NET AND REMOVED THE FISHING HOOK, LINE AND WEIGHT AND THREW IT BACK INTO THE WATER AND PLACED THE ANIMAL ON THE DOCK. MILDLY UNDERWEIGHT, ACTIVE, ALERT, SMALL ABRASION ON LOWER LIP. TRANSFERRED TO REHAB FACILITY, TREATED AND RELEASED.	NSI	P5C	NA
2012	6	15	6/15/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	6	16	6/16/2012	HARBOR SEAL	HOOK & LINE FISHERY	GRAYS HARBOR	WA	SI	LIVE STRANDING; NO SIGNS OF TRAUMA, EYES CLEAR AND ALERT, SHAKING; DIED OVERNIGHT; FOUND APPROXIMATELY 6 INCHES OF FISHING LINE IN STOMACH; POSSIBLY ATTACKED BY DOG WHILE STILL ALIVE	DEAD	P2, P9	NA
2012	6	18	6/18/2012	HARBOR SEAL	SHOOTING	ISLAND	WA	DEAD	CARCASS; GUNSHOT TO HEAD, JUST BEHIND EYES; BULLET EXITED ON OTHER SIDE	DEAD	NA	NA
2012	6	18	6/18/2012	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; TWO BULLET HOLES IN NECK WITH ASSOCIATED TREMENDOUS HEMORRHAGE; ABDOMINAL ORGANS HEMORRHAGED; BRUISING ALONG DORSAL SPINE; GOUGE MARK ON RIGHT VENTRAL HIND FLIPPER	DEAD	NA	NA
2012	7	2	7/2/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. RELEASED TO BEACH.	NSI	P9	NA
2012	7	13	7/13/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	7	8	7/8/2012	HARBOR SEAL	HUMAN-INDUCED ABANDONMENT	SKAGIT	WA	SI	PUBLIC USE OF BEACH SEPARATED MOTHER AND PUP; PUP DIED	DEAD	P14	NA
2012	7	15	7/15/2014	HARBOR SEAL	NORTHERN WASHINGTON OCEAN TROLL FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT. EXACT DATE NOT GIVEN, THUS MID-MONTH (DAY=15) IS USED.	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	7	15	7/15/2014	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT. EXACT DATE NOT GIVEN, THUS MID-MONTH (DAY=15) IS USED.	DEAD	NA	NA
2012	8	21	8/21/2012	HARBOR SEAL	VESSEL STRIKE	SAN MATEO	CA	SI	SEVERAL GASHES ON STOMACH, LETHARGIC AND ALLOWING PEOPLE TO APPROACH; SEE DISPOSITION REPORT. DIED IN REHAB.	DEAD	P15	NA
2012	8	1	8/1/2012	HARBOR SEAL	DOG ATTACK	SNOHOMISH	WA	SI	LIVE PUP HAD SEVERAL PUNCTURE WOUNDS FROM DOG ATTACK; TRANSFERRED TO REHAB AND DIED	DEAD	P9	NA
2012	8	1	8/1/2012	HARBOR SEAL	DOG ATTACK	SNOHOMISH	WA	SI	LIVE PUP HAD 5 PUNCTURE WOUNDS (2 ON LEFT HIP, 2 ON RIGHT HIP, AND A DEEP ONE ON LEFT LATERAL SIDE) FROM DOG ATTACK; TRANSFERRED TO REHAB AND DIED	DEAD	P9	NA
2012	8	11	8/11/2012	HARBOR SEAL	VESSEL STRIKE	SAN JUAN	WA	DEAD	PUP SUCKED INTO INTAKE VALVE OF IDLING, LARGE, COMMERCIAL CATAMARAN; DECAPITATED CARCASS HAD SEMICIRCULAR LACERATIONS ON THORAX	DEAD	NA	NA
2012	8	12	8/12/2012	HARBOR SEAL	SHOOTING	WHATCOM	WA	DEAD	CARCASS; ADULT FEMALE WITH MULTIPLE GUNSHOT WOUNDS; FOUND WITH PUP THAT ALSO APPEARED TO HAVE BEEN SHOT, BUT PUP'S CAUSE OF DEATH COULD NOT BE DETERMINED	DEAD	NA	NA
2012	8	14	8/14/2012	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; CLEAR ENTRANCE/EXIT BULLET HOLES IN BODY WITH ASSOCIATED HEMORRHAGE AND THREE BROKEN RIBS	DEAD	NA	NA
2012	8	18	8/18/2012	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	DEAD	CARCASS; ONE OF FOUR PUPS CAUGHT IN ILLEGAL TRIBAL GILLNET	DEAD	NA	NA
2012	8	18	8/18/2012	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	DEAD	CARCASS; ONE OF FOUR PUPS CAUGHT IN ILLEGAL TRIBAL GILLNET	DEAD	NA	NA
2012	8	18	8/18/2012	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	DEAD	CARCASS; ONE OF FOUR PUPS CAUGHT IN ILLEGAL TRIBAL GILLNET	DEAD	NA	NA
2012	8	18	8/18/2012	HARBOR SEAL	GILLNET FISHERY, TRIBAL	THURSTON	WA	DEAD	CARCASS; ONE OF FOUR PUPS CAUGHT IN ILLEGAL TRIBAL GILLNET	DEAD	NA	NA
2012	8	20	8/20/2012	HARBOR SEAL	SHOOTING	PIERCE	WA	DEAD	CARCASS; TRACKING WOUND; MARKED HEMORRHAGE FROM ENTRY WOUND IN FRONT OF LEFT EAR TO BEHIND LEFT EYE, WHERE PELLET WAS LODGED IN SKULL	DEAD	NA	NA
2012	8	20	8/20/2012	HARBOR SEAL	VESSEL STRIKE	PIERCE	WA	DEAD	PUP OBSERVED STRUCK BY VESSEL; CARCASS FOUND ON BEACH NEXT DAY WITH TWO, LARGE, PARALLEL (CRESCENT-SHAPED), PENETRATING LACERATIONS--TRANSVERSE TO THE RIGHT DORSAL SIDE	DEAD	NA	NA
2012	9	20	9/20/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	12700 VISTA DEL MAR, SCATTERGOOD GENERATION STATION - LADWP CIRCULATING WATER SCREEN BAY (ENTERED THROUGH INTAKE TUNNEL).	DEAD	NA	NA
2012	9	24	9/24/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	DEAD	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM.	DEAD	NA	NA
2012	9	2	9/2/2012	HARBOR SEAL	SHOOTING	CLATSOP	OR	DEAD	CARCASS; VERY GOOD BODY CONDITION; DISTINCT BULLET HOLE AT LEFT DORSAL NASAL AREA AND EXIT WOUND AT PALATE; EXTENSIVE TRAUMA ALONG ENTIRE LEFT SIDE AND ON RIGHT VENTRAL SURFACE, PROBABLY DUE TO A SECOND BULLET	DEAD	NA	NA
2012	9	4	9/4/2012	HARBOR SEAL	VESSEL STRIKE	SAN JUAN	WA	DEAD	DEAD PUP WITH TWO SYMMETRICAL CUTS ACROSS ABDOMEN CONSISTENT WITH PROPELLER WOUNDS; MULTIPLE RIB FRACTURES ASSOCIATED WITH EXTERNAL WOUNDS; LACERATIONS OF HEART, RIGHT LUNG, SPLEEN, AND LIVER; HEMORRHAGE OF RIGHT ADRENAL AND LEFT KIDNEY	DEAD	NA	NA
2012	9	6	9/6/2012	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; CLEAR BULLET HOLE IN NECK; SKULL SHATTERED	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	9	8	9/8/2012	HARBOR SEAL	VESSEL STRIKE	JEFFERSON	WA	DEAD	CARCASS; TWO DEEP LACERATIONS APPROXIMATELY 12 INCHES APART; ANTERIOR LACERATION SEVERED RIBS, LUNG, AND LIVER ON RIGHT SIDE; POSTERIOR LACERATION SEVERED LUMBAR SPINE, SPINAL CORD, AND COLON	DEAD	NA	NA
2012	9	15	9/15/2012	HARBOR SEAL	DOG ATTACK	WHATCOM	WA	SI	LIVE PUP WITH BITE WOUNDS DIED DURING EXAM; MALNUTRITION COMPLICATED BY BITE WOUNDS WAS SUSPECTED CAUSE OF DEATH	DEAD	P9	NA
2012	9	18	9/18/2012	HARBOR SEAL	VESSEL STRIKE	PIERCE	WA	DEAD	DEAD PUP WITH CURVED WOUNDS AND IMPRESSIONS CONSISTENT WITH PROPELLER INJURIES	DEAD	NA	NA
2012	9	22	9/22/2012	HARBOR SEAL	SHOOTING/HOOK & LINE FISHERY	CLATSOP	OR	DEAD	CARCASS; ANIMAL VERY THIN; THREE FISH HOOKS LOOSE IN STOMACH; SHOTGUN PELLETS IN LEFT NOSE; SUBSTANTIAL HOLE IN LEFT ORBITAL BONE, WITH ASSOCIATED HEMORRHAGE; HEMORRHAGE AROUND BOTH EYE SOCKETS AND SIDES OF NOSE; SUSPICIOUS HOLE MIDWAY ALONG BLADDER	DEAD	NA	NA
2012	9	26	9/26/2012	HARBOR SEAL	SHOOTING	PACIFIC	WA	DEAD	CARCASS; PENETRATING WOUND ON LEFT CHEEK, APPROXIMATELY 3 CM BELOW EYE, WITH TRACKING WOUND INTO UPPER CHEEK	DEAD	NA	NA
2012	10	4	10/4/2012	HARBOR SEAL	UNIDENTIFIED NET FISHERY	JEFFERSON	WA	DEAD	CARCASS; DIAMOND-SHAPED PATTERN IMPRINTED ON PELT; HISTOPATHOLOGY CONFIRMED PULMONARY HEMORRHAGE AND CONGESTION.	DEAD	NA	NA
2012	10	17	10/17/2012	HARBOR SEAL	POWER PLANT ENTRAINMENT	SAN DIEGO	CA	NSI	ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM. RELEASED ALIVE TO BEACH.	NSI	P9	NA
2012	10	15	10/15/2012	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT. EXACT DATE NOT GIVEN, THUS MID-MONTH (DAY=15) IS USED.	DEAD	NA	NA
2012	10	15	10/15/2012	HARBOR SEAL	NORTHERN WASHINGTON MARINE SET GILLNET FISHERY, TRIBAL	CLALLAM	WA	DEAD	FISHERMAN SELF REPORT. EXACT DATE NOT GIVEN, THUS MID-MONTH (DAY=15) IS USED.	DEAD	NA	NA
2012	10	15	10/15/2012	HARBOR SEAL	HOOK & LINE FISHERY	GRAYS HARBOR	WA	DEAD	CARCASS; TWO FISH HOOKS WITH FISHING LINE FOUND IN STOMACH; NO INDICATION OF INFECTION IN STOMACH; LINEAR LACERATION INSIDE MOUTH, POSSIBLY FROM INGESTED FISH HOOKS	DEAD	NA	NA
2012	10	25	10/25/2012	HARBOR SEAL	VESSEL STRIKE	WHATCOM	WA	DEAD	CARCASS; GOOD BODY CONDITION; FLESH MISSING FROM SKULL, ENDING IN CONCISE LINE BEHIND SKULL; TOP OF SKULL INTACT WITH BROKEN SHARD COVERING BOTTOM HALF OF BRAIN; LEFT HIP/UPPER LEG BONE PROTRUDING FROM BODY	DEAD	NA	NA
2012	11	4	11/4/2012	HARBOR SEAL	SHOOTING	LINCOLN	OR	DEAD	CARCASS; GUNSHOT WOUND TO HEAD; ENTRY WOUND JUST VENTRAL AND CAUDAL TO RIGHT LOWER JAW; EXIT WOUND AT LOWER LEFT JAW; FRACTURED DENTARY	DEAD	NA	NA
2008	5	10	5/10/2008	HUMPBACK WHALE	DUNGENESS CRAB POT FISHERY ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	LIVE ANIMAL TOWING CRAB POT GEAR (BUOYS & LINE) FROM CHIN AREA; GEAR TYPE CONFIRMED BY OWNER OF GEAR; NON-FATAL INJURY (RESCUE EFFORT INITIATED, GEAR LEFT ON ANIMAL)	SI (PRORATE)	L10	0.75
2008	5	18	5/18/2008	HUMPBACK WHALE	VESSEL STRIKE	VANCOUVER ISLAND	B.C. CANADA	SI (PRORATE)	DRAGGER STRUCK WHALE IN THE FOG. SNAPPED STABILIZER ON BOAT.	SI (PRORATE)	L12	0.36

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	5	31	5/31/2008	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	VANCOUVER ISLAND	BRITISH COLUMBIA	SI (PRORATE)	HUMPBACK ENTANGLED IN CRAB GEAR OFF VANCOUVER ISLAND, BC ON 5/31/2008. THE ANIMAL WAS A 24 FT. 1-2 YEAR OLD. 6 OF THE 7 FLOATS WERE SUCCESSFULLY REMOVED. FIVE FLOATS WERE RECOVERED, ALONG WITH 318 FEET OF LINE. ALL OF THE GEAR WAS DOCUMENTED AND INVESTIGATED TO TRACK THE ORIGINATING LOCATION. 2 FLOATS WERE USED IN FISHING OPERATIONS AT THE MOUTH OF THE COLUMBIA RIVER, AND THE OTHER 3 WERE FROM FISHING EFFORTS OFF OF WILLAPA BAY, WA.	SI (PRORATE)	L10	0.75
2008	6	12	6/12/2008	HUMPBACK WHALE	VESSEL STRIKE	CLALLAM	WA	DEAD	RELATIVELY GOOD BODY CONDITION AND STOMACH CONTAINED PARTIALLY DIGESTED KRILL. UPPER LEFT JAW BROKEN IN SEVERAL PLACES. DEEP CLEAN CUT NEAR GAPE ON SAME SIDE.	DEAD	NA	NA
2008	7	5	7/5/2008	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	CLALLAM	WA	SI	CALF-SIZED ANIMAL (BUT NO MOTHER PRESENT) HAD MULTIPLE CRAB LINES ATTACHED AROUND THE PECTORAL FIN, MOUTH AND TRAILING BACK TO THE FLUKE. SCARS INDICATE IT HAD BEEN ENTANGLED FOR QUITE SOME TIME	SI	L2	1
2008	8	5	8/5/2008	HUMPBACK WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SANTA BARBARA	CA	SI (PRORATE)	LIVE ANIMAL TOWING POT/TRAP GEAR; NO RESIGHTINGS REPORTED; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2008	8	10	8/10/2008	HUMPBACK WHALE	UNIDENTIFIED NET FISHERY ENTANGLEMENT/ VESSEL STRIKE	MONTEREY	CA	SI	FREE-SWIMMING ANIMAL; NECROTIC FLUKES, FLUKES HANGING FROM CAUDAL PEDUNCLE BY CONNECTIVE TISSUE; ANIMAL APPEARS TO BE VERY WEAK; FINAL STATUS UNKNOWN	SI	L5A	1
2009	1	18	1/18/2009	HUMPBACK WHALE	CA SWORDFISH DRIFT GILLNET FISHERY	SAN DIEGO	CA	SI (PRORATE)	ANIMAL ENTANGLED IN ACTIVE SWORDFISH DRIFT GILLNET; REPORT RECEIVED VIA MARINE MAMMAL AUTHORIZATION PROGRAM DATABASE; ANIMAL RELEASED FROM NET; UNDETERMINED AMOUNT OF TRAILING GEAR LEFT ON ANIMAL; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2009	8	14	8/14/2009	HUMPBACK WHALE	UNIDENTIFIED FISHERY INTERACTION	HUMBOLDT	CA	DEAD	DEAD STRANDING; FLUKES MISSING; GROOVE IN SKIN ACROSS VENTRAL EDGE OF CAUDAL PEDUNCLE & PART WAY UP BOTH SIDES OF PEDUNCLE APPROXIMATELY 40 CENTIMETERS FROM SEVERED END, INDICATING ROPE ENTANGLEMENT; CARCASS EXAMINED BY HSU-VM PERSONNEL	DEAD	NA	NA
2009	10	1	10/1/2009	HUMPBACK WHALE	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SANTA BARBARA	CA	SI	FREE-SWIMMING ANIMAL WITH BROWNISH NETTING WRAPPED AROUND LEFT PECTORAL FIN; REPORT RECEIVED VIA SWFSC ON SCENE DURING RESEARCH CRUISE; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2010	5	13	5/13/2010	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	JEFFERSON	WA	SI	JUVENILE HUMPBACK WHALE ENTANGLED FROM HEAD TO FLUKES IN CRAB POT GEAR WITH ORANGE FLOATS SW OF DESTRUCTION ISLAND. VIDEO OF DISENTANGLEMENT ATTEMPT SHOWS WHALE TO BE RELATIVELY IMMOBILE AND UNABLE TO SWIM AND SURFACE NORMALLY, GEAR CONSTRICTING. DISENTANGLEMENT TEAM WAS ABLE TO REMOVE SOME GEAR FROM BODY AND FLUKES, BUT GEAR REMAINED ON FLIPPER. RADIO BEACON ATTACHED TO REMAINING GEAR TO ASSIST IN RELOCATING WHALE FOR ADDITIONAL DISENTANGLEMENT EFFORT. WHALE NOT RELOCATED. GEAR CONFIRMED BY WDFW AS WA COASTAL CRAB POT / TRAP GEAR.	SI	L2	1
2010	6	19	6/19/2010	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	CLALLAM	WA	SI (PRORATE)	35-40 FT. HUMPBACK WHALE WITH A YELLOW CRAB POT TRAILING BEHIND THE ANIMAL. ANIMAL OBSERVED FOR 15 MINUTES AND MOVING IN A NW DIRECTION AT 2 KNOTS.	SI (PRORATE)	L10	0.75

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2010	7	25	7/25/2010	HUMPBACK WHALE	VESSEL STRIKE	MARIN	CA	DEAD	CARCASS OBSERVED FLOATING; PROPELLER WOUNDS OBSERVED	DEAD	NA	NA
2010	8	2	8/2/2010	HUMPBACK WHALE	UNIDENTIFIED NET FISHERY ENTANGLEMENT	MONTEREY	CA	SI	THE ANIMAL WAS AROUND 30FT LONG, WITH GREEN FISH NETTING WRAPPED AROUND THE MID SECTION OF THE ANIMAL, CUTTING INTO THE FLESH. THE ENTANGLEMENT DID NOT SEEM TO BE AFFECTING THE WHALE'S ABILITY TO SWIM OR DIVE. NO RESPONSE EFFORT ATTEMPTED.	SI	L2	1
2010	8	16	8/16/2010	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	LINCOLN	OR	DEAD	MULTIPLE CRAB BUOYS ATTACHED TO ITS TAIL AND IT APPEARED TO BE ANCHORED BY THEM. CARCASS PHOTOGRAPHED	DEAD	NA	NA
2010	8	17	8/17/2010	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	MENDOCINO	CA	SI	LINES & BUOYS EXTENDING FROM CAUDAL PEDUNCLE; SIGHTING REPORTED BY U.S. COAST GUARD HELICOPTER CREW	SI (PRORATE)	L10	0.75
2010	8	23	8/23/2010	HUMPBACK WHALE	UNIDENTIFIED FISHERY INTERACTION	HUMBOLDT	CA	SI	ADULT HUMPBACK WHALE WITH AT LEAST 3 TIGHT WRAPS OF MODERATE GAUGE, GREEN LINE AROUND MIDBODY. NO BUOYS OR LINE SEEN TRAILING. ANIMAL HAS LINE SCAR FORWARD ACROSS BODY BEHIND BLOWHOLES. OVERALL CONDITION OF THE ANIMAL IS GOOD. NOT EMACIATED AND NO HEAVY CYAMID LOAD.	SI	L2	1
2010	8	24	8/24/2010	HUMPBACK WHALE	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	HUMPBACK WHALE TRAILING RED LINE SEEN DRAPED OVER ITS FLUKES. ENTANGLEMENT LIKELY ORIGINATES FROM MOUTH OR FLIPPER(S). NO BUOYS REPORTED.	SI (PRORATE)	L10	0.75
2010	8	31	8/31/2010	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	COOS	OR	DEAD	CARCASS INITIALLY SEEN OFFSHORE, MULTIPLE YELLOW AND RED FLOATS ATTACHED TO ANIMAL. GEAR WAS IDENTIFIED AS OREGON DUNGENESS CRAB FISHERY GEAR FROM BUOY NUMBERS AFTER ANIMAL CAME ASHORE. ANIMAL STRUCK JUST FORWARD OF THE DORSAL FIN. ONLY 20 FT OF THE ANIMAL REMAINED AFTER THE PROPELLOR CUT THE HEAD, PECTORAL FINS AND THORACIC CAVITY AWAY	DEAD	NA	NA
2011	5	8	5/8/2011	HUMPBACK WHALE	VESSEL STRIKE	LOS ANGELES	CA	DEAD		DEAD	NA	NA
2011	5	10	5/10/2011	HUMPBACK WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	3/8" GREEN LINE WRAPPED AROUND RIGHT PECTORAL FIN AT INSERTION; NO BODY WRAPS OBSERVED; 3 BUOYS INVOLVED IN ENTANGLEMENT; LINE TRAILS TO ~1 FT PAST FLUKES ENDING IN EITHER LOOP OR BITTER ENDS; GOOD BODY CONDITION (DARK SKIN, NO CYAMIDS); WHEEZY BLOWS; WITH OTHER ANIMALS; FEEDING, APPROACHING BOAT (CURIOUS); PARTIAL SELF-RELEASE; 2 BUOYS OBSERVED WITH 12-15 FT OF LINE FREE-FLOATING, NOT COLLECTED. NO CONFIRMATION THAT WHALE SHED ALL GEAR.	SI (PRORATE)	L10	0.75
2011	5	12	5/12/2011	HUMPBACK WHALE	VESSEL STRIKE	CLATSOP	OR	NSI	A 38' SAILBOAT PARTICIPATING IN A RACE WAS STRUCK BY A BREACHING WHALE. RIGGING AND MAST WAS DAMAGED AND SKIN WAS LEFT BEHIND. SIZE OF WHALE ESTIMATED AT 30 FT. VESSEL WAS TRAVELLING APPROXIMATELY 9 KTS	NSI	L6C	0
2011	7	16	7/16/2011	HUMPBACK WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN MATEO	CA	SI (PRORATE)	APPROX. 40' HUMPBACK WHALE WITH ROPES AND "CRAB POTS" WRAPPED AROUND THE FLUKES. ANIMAL ACTIVE AND SWIMMING NORTH, NO RESIGHT, NO RESPONSE	SI (PRORATE)	L10	0.75
2011	8	14	8/14/2011	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	GRAYS HARBOR	WA	SI	REPORTED TO USCG VIA WDFW SMALL WHALE ENTANGLED IN CRAB POTS WITH TWO OTHER WHALES SWIMMING AROUND. LAT 46 52 .417 LONG 124 32.453. JUVENILE TRAILING CRAB POTS - BELIEVED IT COULD NOT TRAVEL MUCH IF AT ALL. NO COLOR OF THE FLOATS OR WHERE ON THE BODY THEY WERE LOCATED. PHOTOS DO NOT SHOW GEAR BUT CONFIRM SPECIES.	SI	L2	1

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2011	8	25	8/25/2011	HUMPBACK WHALE	CRAB POT FISHERY ENTANGLEMENT	SAN JUAN	WA	SI	ORIGINALLY SIGHTED IN BRITISH COLUMBIA ON JULY 31, 2011 WITH A RECREATIONAL CRAB POT GEAR LINE AND BUOY TRAILING 15-25 FEET BEHIND THE ANIMAL. HAD BEEN SEEN IN ACTIVE PASS AND OFF POINT ROBERTS BEFORE THIS SIGHTING. ANIMAL WAS REPORTED AS DETERIORATING IN CONDITION. SEEN ON AUGUST 25TH IN FALSE BAY OFF THE WEST SIDE OF SAN JUAN ISLAND. DISENTANGLEMENT EFFORT UNSUCCESSFUL. SERIOUS INJURY PRORATE VALUE OF 1 DUE TO DETERIORATING CONDITION.	SI	L10	1
2011	10	1	10/1/2011	HUMPBACK WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN MATEO	CA	SI (PRORATE)	ENTANGLED IN "CRAB POTS"; ANIMAL HEADING SSE AT A FEW KNOTS; NO RESIGHTS, NO RESPONSE; FINAL OUTCOME UNKNOWN	SI (PRORATE)	L10	0.75
2012	5	13	5/13/2012	HUMPBACK WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	DIVE BOAT REPORTED A 25-FOOT HUMPBACK WHALE ENTANGLED IN LINE WITH A OBLONG ORANGE BUOY TRAILING 10 - 15 FEET BEHIND THE ANIMAL. ANIMAL IS MOBILE AND HEADING TOWARDS NW. INJURIES AT BASE OF CAUDAL PEDUNCLE AND ALONG LEADING EDGE OF FLUKES; INJURIES LOOK OLDER WITH SOME GROWTH ON TIP OF FLUKE; LONG ORANGE BUOY ON 10-15 FT OF LINE TRAILING; RESIGHTED 5/14 AND 5/15; NO RESPONSE ATTEMPTED.	SI (PRORATE)	L10	0.75
2012	6	9	6/9/2012	HUMPBACK WHALE	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	SUBADULT, 35-FOOT, HUMPBACK WHALE REPORTED BY MULTIPLE PARTIES LATE IN THE DAY ENTANGLED IN APPROXIMATELY 1/2", YELLOW LINE AROUND TAIL AND PECTORAL FLIPPERS NO BUOYS WERE OBSERVED AND NO INDICATION OF ANIMAL'S CONDITION. ANIMAL HEADING WEST IN HEAVY SEA STATE.	SI (PRORATE)	L10	0.75
2008	1	28	1/28/2008	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN DIEGO	CA	DEAD	CARCASS; NET-LIKE SCARS ON CAUDAL PEDUNCLE, FLANK, ABDOMEN & PECTORAL FIN	DEAD	NA	NA
2008	6	14	6/14/2008	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	VENTURA	CA	DEAD	CARCASS; FLUKES CLEANLY CUT OFF	DEAD	NA	NA
2008	8	22	8/22/2008	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN DIEGO	CA	DEAD	LIVE STRANDING; ANIMAL PUSHED BACK OUT TO SEA BY PRIVATE CITIZENS, LATER WASHED IN DEAD; LINEAR WHITE SCARS ACROSS DORSAL CAUDAL PEDUNCLE & MALFORMATION OF DORSAL FIN INDICATE OLD ENTANGLEMENT; CAUSE OF DEATH = UNKNOWN	DEAD	NA	NA
2008	11	7	11/7/2008	LONG-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	4	9	4/9/2009	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN DIEGO	CA	DEAD	DEAD STRANDING; BRUISING ON VENTRUM; 0.5 CENTIMETER WIDE ROPE IMPRESSIONS ACROSS FLANK & CAUDAL PEDUNCLE; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2009	5	18	5/18/2009	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	SAN DIEGO	CA	DEAD	DEAD STRANDING; TAIL STOCK CUT OFF; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2009	5	25	5/25/2009	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	VENTURA	CA	DEAD	DEAD STRANDING; FLUKES MISSING; GAFF-LIKE MARKS ON VENTRUM; CARCASS EXAMINED BY SBMNH PERSONNEL	DEAD	NA	NA
2009	6	3	6/3/2009	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN DIEGO	CA	DEAD	DEAD STRANDING; 23 CENTIMETER LONG INCISION AT STERNUM PENETRATING RIB CAGE; NUMEROUS NET-LIKE LINEAR IMPRESSIONS ON LEADING EDGE OF DORSAL FIN, PECTORAL FINS, FLUKES & ACROSS CAUDAL PEDUNCLE; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	12	27	12/27/2009	LONG-BEAKED COMMON DOLPHIN	HOOK & LINE FISHERY	ORANGE	CA	DEAD	DEAD STRANDING; FISH HOOK WITH ATTACHED LINE WRAPPED AROUND ROSTRUM; CARCASS EXAMINED BY PACIFIC MARINE MAMMAL CENTER PERSONNEL	DEAD	NA	NA
2010	1	18	1/18/2010	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	LOS ANGELES	CA	DEAD	FLUKES CUT OFF	DEAD	NA	NA
2010	1	20	1/20/2010	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	LOS ANGELES	CA	DEAD	MISSING FLUKE, CUT OFF, POSSIBLY POST-MORTEM	DEAD	NA	NA
2010	2	18	2/18/2010	LONG-BEAKED COMMON DOLPHIN	VESSEL STRIKE	LOS ANGELES	CA	DEAD	10 EVENLY-SPACED DIAGONAL SCARS ON LEFT SIDE, CUTTING SLIGHTLY INTO BLUBBER	DEAD	NA	NA
2010	2	19	2/19/2010	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	DEAD	FLUKE MISSING	DEAD	NA	NA
2010	4	16	4/16/2010	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	SAN DIEGO	CA	DEAD	TAIL STOCK CUT OFF	DEAD	NA	NA
2010	6	21	6/21/2010	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	VENTURA	CA	DEAD	PEDUNCLE CLEANLY CUT	DEAD	NA	NA
2010	7	17	7/17/2010	LONG-BEAKED COMMON DOLPHIN	KNIFE WOUNDS	VENTURA	CA	DEAD	SEVERAL KNIFE SLASHES ON BODY	DEAD	NA	NA
2010	7	19	7/19/2010	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	SAN DIEGO	CA	DEAD	CROSS-HATCH INDENTATIONS ALONG RIGHT AND LEFT LATERAL ASPECTS OF BODY. LINE INDENTATIONS ALONG THE DORSAL FIN. BROKEN TEETH IN THE JAW.	DEAD	NA	NA
2010	9	5	9/5/2010	LONG-BEAKED COMMON DOLPHIN	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	11	19	11/19/2010	LONG-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	1	11	1/11/2011	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	SAN DIEGO	CA	DEAD	NET AND ROPE IMPRESSIONS AROUND HEAD, JAWS, AND PEDUNCLE.	DEAD	NA	NA
2011	3	4	3/4/2011	LONG-BEAKED COMMON DOLPHIN	UNDERWATER DETONATION EXERCISES	SAN DIEGO	CA	DEAD	SEE DANIL AND ST LEGER 2011	DEAD	NA	NA
2011	3	4	3/4/2011	LONG-BEAKED COMMON DOLPHIN	UNDERWATER DETONATION EXERCISES	SAN DIEGO	CA	DEAD	SEE DANIL AND ST LEGER 2011	DEAD	NA	NA
2011	3	4	3/4/2011	LONG-BEAKED COMMON DOLPHIN	UNDERWATER DETONATION EXERCISES	SAN DIEGO	CA	DEAD	SEE DANIL AND ST LEGER 2011	DEAD	NA	NA
2011	3	7	3/7/2011	LONG-BEAKED COMMON DOLPHIN	UNDERWATER DETONATION EXERCISES	SAN DIEGO	CA	DEAD	SEE DANIL AND ST LEGER 2011	DEAD	NA	NA
2011	4	10	4/10/2011	LONG-BEAKED COMMON DOLPHIN	MARINE DEBRIS INGESTION	SAN DIEGO	CA	DEAD	CHEETOS BAG LODGED IN ESOPHAGUS	DEAD	NA	NA
2011	5	12	5/12/2011	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	ORANGE	CA	DEAD	ENTANGLED IN 8.5 INCH MESH NET	DEAD	NA	NA
2011	6	11	6/11/2011	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	VENTURA	CA	DEAD	FLUKES WERE CLEANLY CUT OFF. CUT ON TAIL END APPEARS TO BE FROM NETTING (ENTANGLEMENT).	DEAD	NA	NA
2011	7	8	7/8/2011	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	FRESH DEAD, GAFF MARK IN CORNER OF MOUTH	DEAD	NA	NA
2011	7	14	7/14/2011	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	CUT HALF WAY THROUGH DORSAL FIN	DEAD	NA	NA
2011	7	23	7/23/2011	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	RED ROPE TIED AROUND BASE OF FLUKE	DEAD	NA	NA
2011	9	1	9/1/2011	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	DEAD	MIRROR IMAGE LACERATIONS ON BOTH SIDES ON CAUDAL PEDUNCLE INDICATE ENTANGLEMENT	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2011	9	9	9/9/2011	LONG-BEAKED COMMON DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	PUNCTURES & GOUGES ON HEAD, RED BLUBBER/MISSING SKIN ON SIDES OF PEDUNCLE, CLEAN CUT ACROSS PEDUNCLE ANTERIOR TO FLUKES	DEAD	NA	NA
2011	9	17	9/17/2011	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	VENTURA	CA	DEAD	FLUKES CLEANLY CUT OFF	DEAD	NA	NA
2011	9	28	9/28/2011	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY CA SWORDFISH DRIFT GILLNET	VENTURA	CA	DEAD	FLUKES CLEANLY CUT OFF	DEAD	NA	NA
2011	11	4	11/4/2011	LONG-BEAKED COMMON DOLPHIN	FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	3	12	3/12/2012	LONG-BEAKED COMMON DOLPHIN	GILLNET FISHERY	LOS ANGELES	CA	DEAD	FLUKES CUTOFF; CUT MADE 34 CM BEHIND ANAL OPENING.	DEAD	NA	NA
2012	4	6	4/6/2012	LONG-BEAKED COMMON DOLPHIN	HOOK & LINE FISHERY	SAN DIEGO	CA	SI	LIVE ANIMAL ON BEACH, TAKEN TO SEA WORLD, DIED IN REHAB. FISHING LINE WRAPPED AROUND RIGHT FLUKE. SIGNIFICANT DAMAGE TO FLUKE.; CAUSE OF DEATH: LACERATION OF ARTERY IN TAIL FLUKE; SEVERE CHRONIC AND ACTIVE LINE INJURY WITH VASCULAR LACERATION AND EXSANGUINATION. MILD PERIORTAL HEPATITIS.	DEAD	S8A	NA
2012	7	30	7/30/2012	LONG-BEAKED COMMON DOLPHIN	UNKNOWN FISHERY INTERACTION	VENTURA	CA	DEAD	LINE MARKS AROUND ROSTRUM/MOUTH	DEAD	NA	NA
2012	8	9	8/9/2012	LONG-BEAKED COMMON DOLPHIN	HOOK & LINE FISHERY	VENTURA	CA	DEAD	FISHING LINE AROUND FLUKES	DEAD	NA	NA
2012	8	10	8/10/2012	LONG-BEAKED COMMON DOLPHIN	UNKNOWN FISHERY INTERACTION	VENTURA	CA	DEAD	LINE WRAPPED AROUND PEDUNCLE AND TAIL	DEAD	NA	NA
2012	8	11	8/11/2012	LONG-BEAKED COMMON DOLPHIN	UNKNOWN FISHERY INTERACTION	VENTURA	CA	DEAD	3RD STRANDING IN THIS AREA IN 3 DAYS. NO DETAILS GIVEN.	DEAD	NA	NA
2012	12	17	12/17/2012	LONG-BEAKED COMMON DOLPHIN	UNKNOWN FISHERY INTERACTION	SAN DIEGO	CA	DEAD	SEVERED FLUKES.	DEAD	NA	NA
2010	4	17	4/17/2010	MINKE WHALE	GILLNET FISHERY CA SWORDFISH DRIFT GILLNET	MONTEREY	CA	SI (PRORATE)	ROPE & NETTING AROUND HEAD AREA	SI (PRORATE)	L10	0.75
2011	12	18	12/18/2011	MINKE WHALE	FISHERY	OFFSHORE	CA	NSI	ANIMAL DISENTANGLED AND RELEASED WITHOUT TRAILING GEAR.	NSI	L3	NA
2008	4	16	4/16/2008	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	LIVE ANIMAL ON ELEPHANT SEAL ROOKERY; ROPE FRAGMENT AROUND NECK; NO RESCUE EFFORT INITIATED DUE TO PRESENCE OF OTHER ANIMALS; FINAL STATUS UNKNOWN	SI	P8A	NA
2008	5	3	5/3/2008	NORTHERN ELEPHANT SEAL	SHOOTING	SAN LUIS OBISPO	CA	DEAD	CARCASS; GUNSHOT WOUND TO HEAD	DEAD	NA	NA
2008	5	3	5/3/2008	NORTHERN ELEPHANT SEAL	SHOOTING	SAN LUIS OBISPO	CA	DEAD	CARCASS; GUNSHOT WOUND TO HEAD	DEAD	NA	NA
2008	5	3	5/3/2008	NORTHERN ELEPHANT SEAL	SHOOTING	SAN LUIS OBISPO	CA	DEAD	CARCASS; GUNSHOT WOUND TO HEAD	DEAD	NA	NA
2008	5	10	5/10/2008	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	LIVE ANIMAL ON ELEPHANT SEAL ROOKERY; PACKING STRAP AROUND NECK; NO RESCUE EFFORT INITIATED DUE TO PRESENCE OF OTHER ANIMALS; FINAL STATUS UNKNOWN	SI	P8A	NA
2008	5	27	5/27/2008	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	MARIN	CA	SI	LIVE ANIMAL; PLASTIC STRAP AROUND NECK; ANIMAL CONTINUOUSLY IN & OUT OF WATER; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI	P8A	NA
2008	6	1	6/1/2008	NORTHERN ELEPHANT SEAL	VESSEL STRIKE	LOS ANGELES	CA	DEAD	CARCASS; HEALED PROPELLER WOUNDS DOWN LENGTH OF BACK; CAUSE OF DEATH = UNKNOWN	DEAD	NA	NA
2008	7	17	7/17/2008	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN DIEGO	CA	DEAD	CARCASS; ROPE TIGHTLY WOUND AROUND NECK	DEAD	NA	NA
2008	10	30	10/30/2008	NORTHERN ELEPHANT SEAL	CAR COLLISION	ALAMEDA	CA	DEAD	LIVE ANIMAL IN MIDDLE OF ROAD, HIT BY CAR; MORTALITY	DEAD	NA	NA

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2009	1	25	1/25/2009	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	LIVE ANIMAL ON ESTABLISHED ELEPHANT SEAL ROOKERY; PACKING STRAP AROUND NECK; ADULT FEMALE WITH DEPENDENT PUP; UNABLE TO DISENTANGLE ADULT DUE TO PRESENCE OF THIS & OTHER PUPS; FINAL STATUS UNKNOWN	SI	P8A	NA
2009	2	6	2/6/2009	NORTHERN ELEPHANT SEAL	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE & SINKERS IN LEFT REAR FLIPPER; ANOTHER FISH HOOK EMBEDDED JUST ABOVE RIGHT EYE; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = GASTROINTESTINAL PARASITISM)	DEAD	P5B	NA
2009	2	15	2/15/2009	NORTHERN ELEPHANT SEAL	HOOK & LINE FISHERY	MONTEREY	CA	SI	LIVE STRANDING; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO INTRASPECIES TRAUMA & OSTEOMYELITIS IN REAR FLIPPER BONES; NECROPSY REVEALED FISH HOOK & ATTACHED LINE IN STOMACH)	DEAD	P2	NA
2009	3	10	3/10/2009	NORTHERN ELEPHANT SEAL	LOBSTER TRAP ENTANGLEMENT	VENTURA	CA	SI	LIVE STRANDING; ANIMAL ENTANGLED IN LOBSTER TRAP GEAR; ROPE & BUOY WRAPPED AROUND ANIMAL'S NECK; 75 FEET OF ROPE EXTENDING FROM ANIMAL TO TRAP; GEAR TYPE CONFIRMED BY OWNER OF GEAR; NON-FATAL INJURY (ANIMAL DISENTANGLED ON SITE & RELEASED)	NSI	P7B	NA
2009	3	27	3/27/2009	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	SI	LIVE STRANDING; PLASTIC TRASH BAG WRAPPED AROUND HEAD; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)	NSI	P7B	NA
2009	4	22	4/22/2009	NORTHERN ELEPHANT SEAL	HOOK & LINE FISHERY/MARINE DEBRIS INGESTION	LOS ANGELES	CA	NSI	LIVE STRANDING; FISH HOOK IN BACK; MORTALITY (ANIMAL DIED IN REHAB; NECROPSY REVEALED SEVERAL PIECES OF SMALL, IRREGULAR-SHAPED, HARD, WHITE, SHARP-EDGED FOREIGN SUBSTANCES SIMILAR TO HARD PLASTIC IN STOMACH)	DEAD	P2	NA
2009	5	13	5/13/2009	NORTHERN ELEPHANT SEAL	UNIDENTIFIED FISHERY INTERACTION / MARINE DEBRIS ENTANGLEMENT	SAN DIEGO	CA	DEAD	DEAD STRANDING; MONOFILAMENT LINE-LIKE LINEAR LACERATION EXTENDING INTO MUSCLE ON VENTRUM NEAR FLIPPERS; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2009	5	16	5/16/2009	NORTHERN ELEPHANT SEAL	POWER PLANT ENTRAINMENT	VENTURA	CA	DEAD	CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL	DEAD	NA	NA
2009	5	30	5/30/2009	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	SI	LIVE STRANDING; GREEN PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2009	6	14	6/14/2009	NORTHERN ELEPHANT SEAL	HOOK & LINE FISHERY	COOS	OR	SI	FISH HOOK WAS IN THE GUM ABOVE THE RIGHT CANINE TOOTH. TRANSPORTED TO OREGON COAST AQUARIUM.	NSI	P5C	NA
2009	9	23	9/23/2009	NORTHERN ELEPHANT SEAL	HOOK & LINE FISHERY	KING	WA	NSI	THIS ANIMAL WAS HAULED OUT ON PRIVATE PROPERTY FROM 9/18-9/21. SHE IS A HEALTHY JUVENILE NES WITH NO FISHERY INTERACTION AT THAT TIME. ONE 9/23 SHE WAS REPORTED TO SEATTLE PD WITH A HOOK AND LINE WITH A FISH ON IT. WDFW RESPONDED AND REMOVED THE HOOK AND LINE WITH A CATCH POLE. ANIMAL WAS DEEMED HEALTHY AND IT WENT BACK INTO THE WATER LATER THAT EVENING.	NSI	P5C	NA
2009	9	24	9/24/2009	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	LIVE ANIMAL ON ESTABLISHED ELEPHANT SEAL ROOKERY; WHITE PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA
2009	10	24	10/24/2009	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	LIVE ANIMAL IN ESTABLISHED ELEPHANT SEAL ROOKERY; WHITE PACKING STRAP AROUND NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)	NSI	P7B	NA

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2009	11	23	11/23/2009	NORTHERN ELEPHANT SEAL	GILLNET FISHERY	MARIN	CA	SI	LIVE ANIMAL ON ESTABLISHED ELEPHANT SEAL ROOKERY; GILLNET FRAGMENT AROUND NECK; UNABLE TO RESCUE DUE TO PROXIMITY TO OTHER ANIMALS ON ROOKERY; FINAL STATUS UNKNOWN	SI	P8A	NA
2010	2	2	2/2/2010	NORTHERN ELEPHANT SEAL	SHOOTING	PACIFIC	WA	SI	SEAL REPORTED ALIVE ON THE BEACH IN DISTRESS ON 2/2/10. WDFW RESPONDED, BULLET FOUND IN LOWER BRAIN CAVITY.	DEAD	P9	NA
2010	2	2	2/2/2010	NORTHERN ELEPHANT SEAL	SHOOTING	PACIFIC	WA	DEAD	BULLET FOUND IN BRAIN CAVITY	DEAD	NA	NA
2010	2	28	2/28/2010	NORTHERN ELEPHANT SEAL	HUMAN-INDUCED ABANDONMENT	SANTA CRUZ	CA	SI	PUP FOUND IN A LAUNDRY ROOM ON A DOG BED, TAKEN INTO REHAB, TREATED AND RELEASED	SI	P14	NA
2010	3	31	3/31/2010	NORTHERN ELEPHANT SEAL	POWER PLANT ENTRAINMENT	VENTURA	CA	DEAD	FOUND IN POWER STATION'S INTAKE TAKE	DEAD	NA	NA
2010	5	9	5/9/2010	NORTHERN ELEPHANT SEAL	MARINE DEBRIS INGESTION	MONTEREY	CA	SI	PLASTIC LODGED IN THROAT. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED	NSI	P9	NA
2010	10	6	10/6/2010	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN MATEO	CA	SI	WIDE BLACK FLEXIBLE RUBBER BAND/BELT 1 1/4" WIDE X 32" LONG X 1/4 CM THICK) WRAPPED AROUND NECK. GOOD BODY CONDITION, ENTANGLEMENT WAS SLIPPED OVER HEAD WITHOUT CUTTING BAND. DISENTANGLED BY VETERINARIAN RESEARCH TEAM	NSI	P7B	NA
2011	1	20	1/20/2011	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	MARIN	CA	SI	ANIMAL ENTANGLED IN 1/2" ROPE NETTING AROUND NECK. DISENTANGLED, IMMEDIATE RELEASE ON SITE.	NSI	P7B	NA
2011	4	3	4/3/2011	NORTHERN ELEPHANT SEAL	RESEARCH	SAN MATEO	CA	DEAD	RESEARCH ANIMAL DIED UNDER ANAESTHESIA	DEAD	NA	NA
2011	4	8	4/8/2011	NORTHERN ELEPHANT SEAL	TAR	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH TAR ON MUZZLE AND EYE. TAKEN INTO REHAB CENTER FOR TREATMENT	SI	P9	NA
2011	11	8	11/8/2011	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	SAN LUIS OBISPO	CA	SI	ENTANGLED WITH GREEN PACKING STRAP AROUND NECK, MILDLY UNDERWEIGHT. VETERINARY STAFF DISENTANGLED AND IMMEDIATELY RELEASED AT STRANDING SITE	SI	P1, P7B	NA
2012	1	10	1/10/2012	NORTHERN ELEPHANT SEAL	MARINE DEBRIS ENTANGLEMENT	MARIN	CA	SI	ENTANGLEMENT AROUND NECK, DISENTANGLED ON SITE.; ORIGINALLY OBSERVED ENTANGLED 11/16/2009	NSI	P7B	NA
2012	1	1	1/1/2012	NORTHERN ELEPHANT SEAL	SHOOTING	PACIFIC	WA	DEAD	A BULLET HOLE WITH ASSOC. HEMORRHAGE AT STERNUM, PARTIALLY CUT AREA AND A SUSPICIOUS HOLE ON HIND FLIPPER; SOME ORGANS HEMORRHAGED; YELLOW FOAM IN BRONCHIOLES; LYMPH NODES APPEARED ENLARGED; SMALL INTESTINES "BEADED".	DEAD	NA	NA
2012	2	21	2/21/2012	NORTHERN ELEPHANT SEAL	SHOOTING	CLATSOP	OR	DEAD	ANIMAL HAD GREAT BODY CONDITION; BULLET HOLES IN HEAD AND BODY WITH ASSOCIATED HEMORRHAGE; TREMENDOUS HEMORRHAGE AT NECK, FLIPPERS, AND BETWEEN DORSAL SCAPULAE; INTESTINES TWISTED; HEART SEEMED SMALL AND HAD A RIP ACROSS RIGHT VENTRICLE.	DEAD	NA	NA
2012	3	26	3/26/2012	NORTHERN ELEPHANT SEAL	TAR	ORANGE	CA	SI	MALNUTRITION, DEHYDRATION, TAR ON RIGHT SIDE OF FACE. TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ROTOTAG #22335.	NSI	P9	NA
2012	6	12	6/12/2012	NORTHERN ELEPHANT SEAL	SHOOTING	PACIFIC	WA	DEAD	CLEAR ENTRANCE AND EXIT BULLET HOLES WITH ASSOCIATED HEMORRHAGING IN BODY; GAFF CUT ON ABDOMEN; HEAD GONE; BLOOD IN THORACIC AND ABDOMINAL CAVITIES.	DEAD	NA	NA
2012	7	3	7/3/2012	NORTHERN ELEPHANT SEAL	VESSEL STRIKE	DEL NORTE	CA	SI	UNDERWEIGHT, LACERATION ON LEFT SHOULDER FROM POSSIBLE BOAT STRIKE, UNDERWEIGHT, BLEEDING FROM NOSE. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED. TAGGED WITH ORANGE ROTOTAG #7529.	NSI	P9	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	7	25	7/25/2012	NORTHERN ELEPHANT SEAL	SHOOTING	PACIFIC	WA	DEAD	EXCELLENT BODY CONDITION. TWO BULLET HOLES WITH ASSOCIATED TRACKS AND HEMORRHAGE IN NECK; HEMORRHAGE AT RIGHT LATERAL JAW, RIGHT LUNG, AND KIDNEYS, SIGNIFICANT BLOOD IN ABDOMINAL CAVITY.	DEAD	NA	NA
2008	4	26	4/26/2008	NORTHERN FUR SEAL	SCIENTIFIC RESEARCH TRAWL	OFFSHORE SAN FRANCISCO	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	6	11	6/11/2008	NORTHERN FUR SEAL	UNIDENTIFIED NET FISHERY	ORANGE	CA	SI	LIVE ANIMAL SWIMMING OFFSHORE ENTANGLED IN 3.5 POUNDS OF NETTING, MONOFILAMENT FISHING LINE, FISHING LURES, AND FISH HOOKS; ANIMAL BARELY ABLE TO STAY AFLOAT; ANIMAL CAPTURED, TAKEN INTO REHAB, DISENTANGLED, TREATED, AND RELEASED	NSI	P7B	NA
2008	7	9	7/9/2008	NORTHERN FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LOS ANGELES	CA	DEAD	CARCASS; PLASTIC BAND AROUND NECK.	DEAD	NA	NA
2008	7	31	7/31/2008	NORTHERN FUR SEAL	SCIENTIFIC RESEARCH TRAWL	MENDOCINO	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL.	DEAD	NA	NA
2008	8	2	8/2/2008	NORTHERN FUR SEAL	SCIENTIFIC RESEARCH TRAWL	SAN FRANCISCO	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL.	DEAD	NA	NA
2008	10	19	10/19/2008	NORTHERN FUR SEAL	HOOK & LINE FISHERY	LOS ANGELES	CA	SI	LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN BACK OF TONGUE; ANIMAL TAKEN INTO REHAB, TREATED, AND RELEASED.	NSI	P5C	NA
2009	2	1	2/1/2009	NORTHERN FUR SEAL	UNIDENTIFIED NET FISHERY	CLATSOP	OR	DEAD	CARCASS; NET ENTANGLEMENT; EMACIATED, HEAVY BRUISING ON VENTRAL THORAX AND ABDOMEN.	DEAD	NA	NA
2009	4	7	4/7/2009	NORTHERN FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	DEAD	ONE OF THREE FUR SEALS FOUND IN BLUE LARGE MESH NET ON BEACH. NET IDENTIFIED AS BEING CHINESE IN ORIGIN.	DEAD	NA	NA
2009	4	7	4/7/2009	NORTHERN FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	DEAD	ONE OF THREE FUR SEALS FOUND IN BLUE LARGE MESH NET ON BEACH. NET IDENTIFIED AS BEING CHINESE IN ORIGIN.	DEAD	NA	NA
2009	4	7	4/7/2009	NORTHERN FUR SEAL	MARINE DEBRIS ENTANGLEMENT	LINCOLN	OR	DEAD	ONE OF THREE FUR SEALS FOUND IN BLUE LARGE MESH NET ON BEACH. NET IDENTIFIED AS BEING CHINESE IN ORIGIN.	DEAD	NA	NA
2009	5	25	5/25/2009	NORTHERN FUR SEAL	SCIENTIFIC RESEARCH TRAWL	UNKNOWN	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2011	4	8	4/8/2011	NORTHERN FUR SEAL	TRAWL FISHERY (UNKNOWN)	LINCOLN	OR	DEAD	CARCASS; PLASTIC PACKING BAND CUTTING INTO NECK; OBVIOUS DAMAGE TO SKIN, BLUBBER, AND MUSCLE; ENTANGLED IN GREENISH TRAWL NET	DEAD	NA	NA
2011	6	22	6/22/2011	NORTHERN FUR SEAL	TRAWL FISHERY (UNKNOWN)	PACIFIC	WA	DEAD	CARCASS; GREEN MULTIFILAMENT NET (LIKELY FROM TRAWL NET) WRAPPED AROUND NECK; DUE TO DECOMPOSITION AND SCAVENGING NOT ABLE TO DETERMINE IF NET WAS CAUSE OF DEATH OR IF IT CONTRIBUTED TO DEATH	DEAD	NA	NA
2012	5	6	5/6/2012	NORTHERN FUR SEAL	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	MALNUTRITION, DEHYDRATION; DEEP LACERATION TO VENTRAL SIDE OF NECK DUE TO NET/FISHING LINE NOT ON ANIMAL, MALNUTRITION. TAKEN TO REHAB FACILITY, TREATED AND RELEASED WITH ORANGE ROTOTAG #22371.	NSI	P8A	NA
2012	5	28	5/28/2012	NORTHERN FUR SEAL	POWER PLANT ENTRAINMENT	SAN LUIS OBISPO	CA	DEAD	CARCASS DISCOVERED IN STATION COOLING WATER SYSTEM	DEAD	NA	NA
2012	6	14	6/14/2012	NORTHERN FUR SEAL	UNIDENTIFIED NET FISHERY/SHOOTING	PACIFIC	WA	DEAD	CARCASS; GREEN NET AROUND NECK WITH ASSOCIATED HEMORRHAGE; BULLET HOLES (POSSIBLY ENTRANCE/EXIT) NEAR BOTH SCAPULAE, WITH ASSOCIATED HEMORRHAGE	DEAD	NA	NA
2012	7	26	7/26/2012	NORTHERN FUR SEAL	UNIDENTIFIED FISHERY INTERACTION	LINCOLN	OR	SI	LIVE ANIMAL, ENTANGLED IN FISHING GEAR, RESCUED BY TUNA FISHERMEN; TRANSFERRED TO REHAB AND RELEASED THE NEXT DAY	NSI	P7B	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	8	8	8/8/2008	NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	NORTHERN RIGHT WHALE DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	12	8	12/8/2008	NORTHERN RIGHT WHALE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	12	6	12/6/2010	NORTHERN RIGHT WHALE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	27	10/27/2011	NORTHERN RIGHT WHALE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	8	1/8/2012	NORTHERN RIGHT WHALE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	1	3	1/3/2008	PACIFIC WHITE-SIDED DOLPHIN	RESEARCH: SEA BOTTOM SURVEY EQUIPMENT	LOS ANGELES	CA	NSI	ANIMAL ENTANGLED IN SEA BOTTOM SURVEY EQUIPMENT; NON-FATAL INJURY (ANIMAL DISENTANGLED BY LIFEGUARDS, SWAM AWAY IN NO APPARENT DISTRESS)	NSI	S7B	NA
2008	1	17	1/17/2008	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	1	17	1/17/2008	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	4	20	4/20/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	4	27	4/27/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	4	27	4/27/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	7	18	7/18/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	8	8	8/8/2008	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL	DEAD	NA	NA
2008	11	7	11/7/2008	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	7	11/7/2008	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	7	11/7/2008	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	5	1	5/1/2009	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	LOS ANGELES	CA	SI	1 OF 3 ANIMALS THAT SWAM INTO COLLAPSED FRONT PORTION OF NET DURING HAULBACK; ANIMAL BECAME ENSNARED IN NET, BROUGHT ABOARD NMFS RESEARCH VESSEL, CUT OUT OF NET & RELEASED; LESS THAN 2 MINUTE TURN AROUND TIME FROM NET TO RELEASE	SI	S4	NA
2009	5	1	5/1/2009	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	LOS ANGELES	CA	SI	1 OF 3 ANIMALS THAT SWAM INTO COLLAPSED FRONT PORTION OF NET DURING HAULBACK; ANIMAL BECAME ENSNARED IN NET, BROUGHT ABOARD NMFS RESEARCH VESSEL, CUT OUT OF NET & RELEASED; LESS THAN 2 MINUTE TURN AROUND TIME FROM NET TO RELEASE	SI	S4	NA
2009	5	1	5/1/2009	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	LOS ANGELES	CA	SI	1 OF 3 ANIMALS THAT SWAM INTO COLLAPSED FRONT PORTION OF NET DURING HAULBACK; ANIMAL BECAME ENSNARED IN NET, BROUGHT ABOARD NMFS RESEARCH VESSEL, CUT OUT OF NET & RELEASED; LESS THAN 2 MINUTE TURN AROUND TIME FROM NET TO RELEASE	SI	S4	NA
2009	5	23	5/23/2009	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	TILLAMOOK	OR	DEAD	ANIMAL CAUGHT IN RESEARCH TRAWL, CARCASS DISPOSED AT SEA	DEAD	NA	NA
2009	5	23	5/23/2009	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	TILLAMOOK	OR	DEAD	ANIMAL CAUGHT IN RESEARCH TRAWL, CARCASS DISPOSED AT SEA	DEAD	NA	NA
2009	10	7	10/7/2009	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2009	10	7	10/7/2009	PACIFIC WHITE-SIDED DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	4	18	4/18/2010	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	MONTEREY	CA	SI	ANIMAL CAUGHT IN RESEARCH TRAWL, TRAWL BROUGHT ON DECK, ANIMAL RELEASED AT SEA. SERIOUS INJURY S4 BECAUSE ANIMAL WAS REMOVED FROM WATER AND BROUGHT ON DECK.	SI	S4	NA
2010	4	25	4/25/2010	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ANIMAL CAUGHT IN RESEARCH TRAWL, CARCASS DISPOSED AT SEA	DEAD	NA	NA
2010	9	10	9/10/2010	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	MENDOCINO	CA	DEAD	ANIMAL BECAME ENTANGLED IN COD END OF MID-WATER TRAWL AFTER THE SET WHEN THE NET WAS BEING BROUGHT ABOARD THE VESSEL	DEAD	NA	NA
2011	4	3	4/3/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	SANTA CRUZ	CA	DEAD	ANIMAL CAUGHT IN RESEARCH TRAWL, CARCASS DISPOSED AT SEA	DEAD	NA	NA
2011	9	10	9/10/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2011	9	10	9/10/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2011	9	10	9/10/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2011	9	10	9/10/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2011	9	10	9/10/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2011	9	10	9/10/2011	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2012	6	29	6/29/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	SI	NET WAS BEING HAULED ABOARD WHEN AN ANIMAL WAS OBSERVED WITH ITS TAIL FLUKE CAUGHT BETWEEN BARS OF MARINE MAMMAL EXCLUDER DEVICE. ANIMAL WAS TURNED TO RELEASE TAIL FLUKE AND RELEASED DOWN TRAWL RAMP. ANIMAL WAS BREATHING AND APPEARED TO BE UNHARMED. ANIMAL WAS OBSERVED TO BE SWIMMING IN WATER AFTER RELEASE. S4 SERIOUS INJURY BECAUSE ANIMAL WAS REMOVED FROM WATER, BROUGHT ON DECK (TRAWL RAMP).	SI	S4	NA
2012	6	28	6/28/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	OR	DEAD	ONE OF THREE ANIMALS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2012	6	29	6/29/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	OR	DEAD	ONE OF THREE ANIMALS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2012	6	30	6/30/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	OR	DEAD	ONE OF THREE ANIMALS CAUGHT IN A SURFACE TRAWL	DEAD	NA	NA
2012	8	24	8/24/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF TWO PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A MIDWATER TRAWL	DEAD	NA	NA
2012	8	24	8/24/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ONE OF TWO PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A MIDWATER TRAWL	DEAD	NA	NA
2012	8	18	8/18/2012	PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH TRAWL	OFFSHORE	CA	DEAD	ANIMAL CAUGHT IN RESEARCH TRAWL, CARCASS DISPOSED AT SEA	DEAD	NA	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2008	10	18	10/18/2008	RISSO'S DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	1	22	1/22/2010	RISSO'S DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	DEAD	MULTIPLE PARALLEL LACERATIONS	DEAD	NA	NA
2011	9	29	9/29/2011	RISSO'S DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	10	17	10/17/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	10	25	10/25/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	10	26	10/26/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	10	26	10/26/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	10	26	10/26/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	12	11/12/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	11	23	11/23/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	12	20	12/20/2008	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	12	4	12/4/2009	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2009	12	17	12/17/2009	SHORT-BEAKED COMMON DOLPHIN	GILLNET FISHERY CA SWORDFISH DRIFT GILLNET FISHERY	SAN DIEGO	CA	DEAD	DEAD STRANDING; HALF OF RIGHT PECTORAL FIN CUT OFF; DORSAL FIN MISSING; PENETRATING WOUND ON LEFT SIDE OF BODY BELOW DORSAL FIN; PREY IN STOMACH; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2010	9	18	9/18/2010	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	9	18	9/18/2010	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2010	12	5	12/5/2010	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	10	14	10/14/2011	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2011	12	4	12/4/2011	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	17	1/17/2012	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA

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Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2012	11	5	11/5/2012	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	11	6	11/6/2012	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	11	6	11/6/2012	SHORT-BEAKED COMMON DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2008	2	1	2/1/2008	SPERM WHALE	MARINE DEBRIS INGESTION	DEL NORTE	CA	DEAD	CARCASS; STOMACH CRAMMED WITH NETS OF DIFFERING TYPE	DEAD	NA	NA
2008	3	14	3/14/2008	SPERM WHALE	GILLNET FISHERY	PACIFIC	WA	DEAD	APPEARED TO HAVE ENTANGLEMENT SCARS	DEAD	NA	NA
2008	3	15	3/15/2008	SPERM WHALE	MARINE DEBRIS INGESTION	MARIN	CA	DEAD	CARCASS; STOMACH CRAMMED WITH NETS OF DIFFERING TYPE & SEVERAL PLASTIC TARPS; ROPE MARKS ON PECTORAL FLIPPER	DEAD	NA	NA
2010	12	5	12/5/2010	SPERM WHALE	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	SI	ONE OF TWO WHALES ENTANGLED IN A SWORDFISH DRIFT GILLNET. ONE WHALE WAS DEAD. FISHERY OBSERVER INDICATED THAT THE SECOND WHALE WAS RELEASED WITH NETTING AND PHOTOS WERE TAKEN. PHOTOS OF THE INJURED WHALE SHOW AN ANIMAL ON ITS SIDE, NOT IN A NORMAL BREATHING OR SWIMMING POSTURE.	SI	L2	1
2010	12	5	12/5/2010	SPERM WHALE	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	NA
2012	1	21	1/21/2012	SPERM WHALE	VESSEL STRIKE	PACIFIC	WA	DEAD	SKULL SEVERELY FRACTURED; BACK APPEARED TO BE BROKEN; HEMORRHAGE AT HEAD AND RIGHT SCAPULA.	DEAD	NA	NA
2011	3	12	3/12/2011	STRIPED DOLPHIN	UNIDENTIFIED FISHERY INTERACTION	LINCOLN	OR	DEAD	CARCASS CUT OPEN ALONG DORSUM, SMALL CUTS AT AXILLA AND PECTORAL FLIPPER	DEAD	NA	NA
2008	3	2	3/2/2008	UNIDENTIFIED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN DIEGO	CA	DEAD	CARCASS; HEAD, FLUKES, RIGHT PECTORAL FIN & DORSAL FIN SEVERED; ABDOMEN SLICED OPEN	DEAD	NA	NA
2008	4	7	4/7/2008	UNIDENTIFIED COMMON DOLPHIN	GILLNET FISHERY	ORANGE	CA	DEAD	CARCASS; ABDOMEN CUT OPEN; FLUKES MISSING; NET-LIKE MARKS ANTERIOR & POSTERIOR TO EYE	DEAD	NA	NA
2009	7	29	7/29/2009	UNIDENTIFIED COMMON DOLPHIN	VESSEL STRIKE	SAN DIEGO	CA	DEAD	DEAD STRANDING; PROPELLER-LIKE 28 CENTIMETER LONG "S" SHAPED WOUND ALONG RIGHT DORSUM EXTENDING INTO BODY CAVITY, SEVERING SPINE & 11 RIBS; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2009	10	25	10/25/2009	UNIDENTIFIED COMMON DOLPHIN	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN DIEGO	CA	DEAD	DEAD STRANDING; GAFF-LIKE 3 CENTIMETER LONG INCISION IN THROAT REGION; STOMACH FULL OF FISH; CARCASS EXAMINED BY SWFSC PERSONNEL	DEAD	NA	NA
2008	5	19	5/19/2008	UNIDENTIFIED PINNIPED	MARINE DEBRIS	LOS ANGELES	CA	DEAD	CARCASS; ROPE AROUND NECK	DEAD	NA	NA
2008	5	24	5/24/2008	UNIDENTIFIED PINNIPED	VESSEL STRIKE	ORANGE	CA	DEAD	CARCASS; PROPELLER-LIKE WOUNDS TO BODY	DEAD	NA	NA
2008	8	20	8/20/2008*	UNIDENTIFIED PINNIPED	MARINE DEBRIS ENTANGLEMENT	COOS	OR	SI	LIVE ANIMAL WITH MARINE DEBRIS (LIKELY PLASTIC PACKING BAND) AROUND NECK	SI	P8A	NA
2009	8	1	8/1/2009*	UNIDENTIFIED PINNIPED	SHOOTING	NA	NA	SI	REPORT OF LIVE SEA LION SHOT IN THE HEAD WITH A .410 SLUG WHILE HAULED OUT ON A BUOY	SI	P9	NA
2009	9	18	9/18/2009*	UNIDENTIFIED PINNIPED	GILLNET FISHERY, TRIBAL	NA	NA	DEAD	CARCASS; CAUGHT IN TRIBAL NET	DEAD	NA	NA
2010	1	16	1/16/2010*	UNIDENTIFIED PINNIPED	MARINE DEBRIS ENTANGLEMENT	NA	NA	SI	LIVE ANIMAL ENTANGLED IN LIGHT COLORED ROPE	SI	P6	NA
2010	6	11	6/11/2010	UNIDENTIFIED PINNIPED	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	ANIMAL ENTRAINED IN CIRCULATING WATER SCREEN BAY (ENTERED THROUGH INTAKE TUNNEL)	DEAD	NA	NA
2010	7	16	7/16/2010*	UNIDENTIFIED PINNIPED	UNIDENTIFIED NET FISHERY	NA	NA	SI	REPORT OF LIVE ANIMAL WITH NET AROUND ITS HEAD AND NECK	SI	P8A	NA
2010	8	5	8/5/2010*	UNIDENTIFIED PINNIPED	BLUNT FORCE TRAUMA: CLUBBING	NA	NA	SI	SEA LION BLUDGEONED AT SEA BY RECREATIONAL FISHERMEN	SI	P9	NA

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	9	2	9/2/2010*	UNIDENTIFIED PINNIPED	UNIDENTIFIED NET FISHERY	NA	NA	SI	LIVE SEAL ENTANGLED IN NET; RELEASED BY PUBLIC BEFORE RESPONDERS ARRIVED	SI	P7B	NA
2012	6	3	6/3/2012	UNIDENTIFIED PINNIPED	UNIDENTIFIED NET FISHERY	TILLAMOOK	OR	SI	LIVE ANIMAL (POSSIBLY FUR SEAL) WITH BLUE/GREEN FISHING NET WRAPPED AROUND ITS MID-SECTION	SI	P6	NA
2012	6	5	6/5/2012	UNIDENTIFIED PINNIPED	MARINE DEBRIS ENTANGLEMENT	LANE	OR	SI	YOUNG, LIVE ANIMAL (POSSIBLY SEA LION) WITH A ROPE AND WHITE SIGN WRAPPED TIGHTLY AROUND ITS NECK	SI	P8A	NA
2012	8	24	8/24/2012	UNIDENTIFIED PINNIPED	CRAB POT FISHERY	LINCOLN	OR	SI	LIVE ANIMAL, SWIMMING JUST OFFSHORE, ENTANGLED IN CRAB GEAR (BUOY AND LINE VISIBLE)	SI	P6	NA
2009	7	15	7/15/2009*	UNIDENTIFIED PORPOISE	CRAB POT FISHERY ENTANGLEMENT	NA	NA	DEAD	SKULL (POSSIBLY HARBOR PORPOISE) FOUND IN DERELICT CRAB GEAR	DEAD	NA	NA
2008	1	2	1/2/2008	UNIDENTIFIED WHALE	VESSEL STRIKE	SAN FRANCISCO	CA	SI	TUGBOAT COLLIDED WITH FREE-SWIMMING WHALE; FINAL STATUS OF ANIMAL UNKNOWN	SI	L12	0.36
2008	8	18	8/18/2008	UNIDENTIFIED WHALE	UNIDENTIFIED NET FISHERY ENTANGLEMENT	SAN FRANCISCO	CA	SI (PRORATE)	LIVE ANIMAL TOWING UNIDENTIFIED NETTING; NO RESIGHTINGS REPORTED; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2008	8	26	8/26/2008	UNIDENTIFIED WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN MATEO	CA	SI (PRORATE)	LIVE ANIMAL TOWING TEN FEET OF POT/TRAP GEAR; NO RESIGHTINGS REPORTED; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2008	9	1	9/1/2008	UNIDENTIFIED WHALE	DUNGENESS CRAB POT FISHERY ENTANGLEMENT	VENTURA	CA	SI (PRORATE)	LIVE ANIMAL TOWING 100 FEET OF LINE WITH BUOY; GEAR TYPE CONFIRMED BY OWNER OF GEAR; NO RESIGHTINGS REPORTED; NO RESCUE EFFORT INITIATED; NON-FATAL INJURY. APPROXIMATELY 6 HOURS FOLLOWING THE FIRST REPORT OF THE ENTANGLEMENT, THE GEAR WASHED UP ON THE BEACH; IT IS ASSUMED THAT THE ANIMAL FREED ITSELF FROM THE GEAR. CANNOT CONFIRM THAT WHALE FREED ITSELF FROM ALL GEAR.	SI (PRORATE)	L10	0.75
2008	12	7	12/7/2008	UNIDENTIFIED WHALE	VESSEL STRIKE	LOS ANGELES	CA	SI	CATALINA EXPRESS (TRANSPORT VESSEL, 97 FEET LONG, TRAVELING AT 25 KNOTS) COLLIDED WITH FREE-SWIMMING WHALE; NO BLOOD OBSERVED IN WATER; ANIMAL APPEARED TO SWIM AWAY IN NORMAL FASHION; FINAL STATUS UNKNOWN	SI	L6A	1
2009	3	19	3/19/2009	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	MENDOCINO	CA	SI (PRORATE)	FREE-SWIMMING ANIMAL TOWING UNIDENTIFIED FISHING GEAR; REPORT RECEIVED VIA PRIVATE CITIZEN; ANIMAL DESCRIBED AS ENTANGLED IN BUOYS & NETS; USCG CONDUCTED AERIAL SURVEY OF AREA BUT COULD NOT LOCATE ENTANGLED ANIMAL; FINAL STATUS UNKNOWN	SI (PRORATE)	L10	0.75
2009	7	12	7/12/2009	UNIDENTIFIED WHALE	UNIDENTIFIED NET FISHERY ENTANGLEMENT	LOS ANGELES	CA	SI	FREE-SWIMMING ANIMAL TOWING UNIDENTIFIED NET GEAR & BUOYS; REPORT RECEIVED VIA USCG, ANIMAL DESCRIBED AS BLUE WHALE; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN	SI	L10	0.75
2010	3	24	3/24/2010	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	SONOMA	CA	SI	TOWING 30 FEET OF TRAILING LINE & 2 GREEN & WHITE BUOYS; UNIDENTIFIED FISHERY. FREE-SWIMMING ENTANGLED WHALE REPORTED BY MEMBER OF PUBLIC; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS REPORTED; FINAL STATUS UNKNOWN	SI	L10	0.75
2010	3	29	3/29/2010	UNIDENTIFIED WHALE	VESSEL STRIKE	LOS ANGELES	CA	SI	COMMERCIAL ISLAND PASSENGER TRANSPORT CATAMARAN VESSEL, 37 METERS LONG DOING 28 KNOTS, COLLIDED WITH FREE-SWIMMING ANIMAL; NO BLOOD OBSERVED IN WATER; COLLISION DISLODGED VESSEL'S STARBOARD T-FOIL; FINAL STATUS UNKNOWN	SI	L6A	1
2010	4	8	4/8/2010	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	MARIN	CA	SI (PRORATE)	ROPE WRAPPED AROUND CAUDAL PEDUNCLE; UNIDENTIFIED FISHERY	SI (PRORATE)	L10	0.75

Appendix 4. Records of human-related injury and mortality, 2008-2012. New records (*) are included, based on updated stranding data. ** = Records omitted from previous serious injury report but included in stock assessments.

Year	Month	Day	Date	Species	Interaction Type	County/Locale	STATE	Initial Injury Assessment	Comments	Final Injury Assessment	SI Criteria Supporting Assessment	SI Proration Value
2010	5	2	5/2/2010	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI	ANIMAL ENTANGLED IN ROPE. ANIMAL THRASHING AT SURFACE; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS REPORTED; FINAL STATUS UNKNOWN	SI	L10	0.75
2010	7	7	7/7/2010	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI	ANIMAL TOWING NET-LIKE MATERIAL; SIGHTING REPORTED BY OIL PLATFORM WORKERS, FREE-SWIMMING; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS REPORTED; FINAL STATUS UNKNOWN	SI	L10	0.75
2010	10	13	10/13/2010	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI	TOWING ORANGE BUOY. WHALE SIGHTED FROM SHORE USING BINOCULARS. APPEARED TO BE FREE-SWIMMING AND DIVING; NO RESIGHTS; FINAL STATUS UNKNOWN	SI	L10	0.75
2011	7	16	7/16/2011	UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	FREE-SWIMMING ENTANGLED WHALE IN UNKNOWN GEAR	SI	L10	0.75
2011	8	20	8/20/2011	UNIDENTIFIED WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SNOHOMISH	WA	SI (PRORATE)	WHALE TRAILING A RED AND WHITE BOUY OFF THE RIGHT SIDE. DID NOT SEE ANY LINES WRAPPED AROUND THE BODY.	SI (PRORATE)	L10	0.75
2011	9	5	9/5/2011	UNIDENTIFIED WHALE	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	LINCOLN	OR	SI	ENTANGLED LARGE WHALE ABOUT 6 NM NW OF YAQUINA BAY. IT WAS OBSERVED BY FISHERMAN WHO LOST SIGHT OF IT IN FOG AND INCREASINGLY CHOPPY SEAS; REPORTED SEEING A LARGE WHALE (FLUKES ABOUT 6-7 FEET WIDE) WITH TWO BUOYS ATTACHED TO IT: ONE RED AND WHITE NEAR ANIMAL'S MID-SECTION AND ONE WHITISH CLOSER TO THE TAIL OR DORSAL "RIDGE" AREA; ANIMAL WAS SEEN DIVING (WITH FLUKES UP) AND THEN REAPPEARING JUST BELOW THE SURFACE.	SI	L10	0.75
2012	8	16	8/16/2012	UNIDENTIFIED WHALE	VESSEL STRIKE	LOS ANGELES	CA	SI	CAPTAIN REPORT OF VESSEL STRIKE; CAPTAIN SAW SPOUTS AND TOOK VESSEL OFF AUTOPILOT TO ATTEMPT TO DIVERT AROUND THE WHALES; FELT A "NUDGE"; PASSENGER REPORTED SEEING THE WHALE POP UP AND RUN INTO THE SIDE OF THE VESSEL; 2ND OPERATOR SAW WHALE IN THE WAKE OF THE VESSEL BUT DID NOT OBSERVE ANY BLOOD IN THE WATER; DIVER EXAMINATION OF THE VESSEL HULL SHOWED NO SIGNS OF IMPACT OR DAMAGE. THIS WAS THE FERRY ROUTE BETWEEN CATALINA AND LONG BEACH, TYPICALLY VESSELS ARE >65FT AND TRAVEL IN EXCESS OF 10 KTS.	SI	L6A	NA

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(December 2013)
- 524 AMLR 2010-2011 field season report. WALSH, J. G., ed.
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