

# NOAA Technical Memorandum NMFS



JULY 2013

## SOURCES OF HUMAN-RELATED INJURY AND MORTALITY FOR U. S. PACIFIC WEST COAST MARINE MAMMAL STOCK ASSESSMENTS, 2007-2011

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U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
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## NOAA Technical Memorandum NMFS

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Sources of human-related injury and mortality for U.S. Pacific west coast marine mammal stock assessments, 2007-2011.

James V. Carretta<sup>1</sup>, Sarah M. Wilkin<sup>2</sup>, Marcia Muto<sup>3</sup> and Kristin Wilkinson<sup>4</sup>

## 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 recognizing 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 (NOAA 2012, Moore *et al.* 2013).

This report contains records of human-caused injury and mortality to pinnipeds and cetaceans from 2007 to 2011, 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.* 2013). Mortality records, while included, were obviously not evaluated for SI/NSI status. Subsistence and directed takes are not reported here but are reported in SARs published by NMFS.

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 working in these same areas. 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 of 2007 to 2011, which includes injury and mortality data used in preparation of draft 2013 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 not included in this report (Allen and Angliss

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2013). Injury determinations for Pacific region species/stocks in the central Pacific from Hawaii westward are also included in separate reports.

## 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 unequivocal or probable 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 (Breiwick *in prep.*, Carretta and Enriquez 2009a, 2009b, 2010, 2012a, 2012b), 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 2012 and Appendices 1-3). Injury determinations include 803 records for the period 2007 to 2011. Both *initial* and *final* injury determinations are given for each record. For example, a pinniped entangled in a 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 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 frequently are caught in marine debris or fishing nets, and some of these animals also show evidence of gunshot wounds. In cases where multiple causes of injury or death were 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 (NOAA 2012). 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 (NOAA 2012). 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 a 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 1,488 human-related injury and mortality records are summarized by anthropogenic source in Table 1 and Appendix 4. Nearly 85% of all records represent opportunistic reports of animals stranded on beaches or at-sea sightings (Table 1 and Appendix 4). Only 229 records were derived from systematic observations, either fishery observer programs (n=153) or monitored research-related activities (n=76). Approximately 45% (n=684) of all records involved animals initially found dead (Table 2). Pinnipeds (n=1,207) were most commonly injured or killed by human-related activities, followed by small cetaceans (n=163) and large whales (n=118) (Tables 3-5, respectively). Live animals accounted for 804 records, which were evaluated and assigned SI/NSI determinations, including 714 pinnipeds, 80 large whales, and 10 small cetaceans.

The primary causes of pinniped injury and mortality were recreational hook and line fishery interactions (n=318), shootings (n=194), and entrainment into power plant water intakes (n=175) (Tables 3 and 6, Appendix 4). Excluding animals initially found dead, pinniped injury records included California sea lions (*Zalophus californianus*) (n=597), harbor seals (*Phoca vitulina*) (n=76), northern elephant seals (*Mirounga angustirostris*) (n=27), Guadalupe fur seals (*Arctocephalus townsendi*) (n=9), and northern fur seals (*Callorhinus ursinus*) (n=5) (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=264) were successfully treated and released from rehabilitation facilities, and it is assumed that they survived following treatment. Therefore their final injury assessments are 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=89), while others were sent to public display facilities (n=6) because their existing post-treatment condition made survival in the wild unlikely. Including the 89 euthanized pinnipeds, 265 died of their injuries. Pinniped records lacking detail regarding whether the animal was released following rehabilitation facility care

were determined to be seriously injured (n=24). Initial NSI determinations were made for 158 pinnipeds, of these, 24 (15%) 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 118 large whale injury and mortality records were reviewed (Table 4). Of these, 38 were dead and the remaining 80 records were assessed for NSI/SI. Vessel strikes were the most common form of injury to gray, blue (*Balaenoptera musculus*), and fin whales (*Balaenoptera physalus*), 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=27), gray whales (n=23), unidentified whales (n=20), fin whales (n=4), minke whales (*Balaenoptera acutorostrata*) (n=2), sperm whale (*Physeter macrocephalus*) (n=2), Bryde's whale (*Balaenoptera edeni*) (n=1) and blue whale (n=1) (Table 2), with vessel strikes and entanglement related injuries being the leading causes of SI and mortality (Table 6). Of 80 large whales evaluated for NSI/SI, 62 cases were fishery-related entanglements, 17 cases involved vessel strikes, and one involved entanglement in marine debris. Only a small fraction of the 62 entanglement cases (n=13) involved human intervention to remove gear. This reflects that many entangled whales are seen only once. Only one large whale record that was initially designated as SI resulted in a final injury status of NSI, as a result of successful disentanglement of the animal (a gray whale released from pot/trap gear). All other large whale records with initial SI designations retained final injury designations of SI (Table 7b). Two whales initially designated as SI were later found dead: a Bryde's whale with vessel strike injuries and a gray whale entangled in gillnet (Appendix 4). One gray whale seen in July of 2009 with constricting gillnet and rope cutting into its caudal peduncle was assigned a SI status and it was later learned that this animal has been resighted alive in 2010 and 2011, still entangled (Appendix 4). Given the initial sighting condition of this whale and evidence of protracted, lethal effects of entanglements on large whales in general (Cassoff *et al.* 2011), the SI determination was retained.

Small cetaceans were rarely assessed for SI (n=10) because most were initially reported as dead (n=153). Mortality in gillnets and unidentified net fisheries accounted for most small cetacean records (n=85), with approximately half of all records derived from gillnet observer programs (n=43). Small cetacean injury records included Pacific white-sided dolphin (*Lagenorhynchus obliquidens*) (n=5), harbor porpoise (*Phocoena phocoena*) (n=2), bottlenose dolphin (*Tursiops truncatus*) (n=2) and unidentified dolphin (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 resulting serious injuries and one harbor porpoise with entanglement related serious injuries died during transport from the beach. All other initial SI designations of small cetaceans resulted in final designations of SI (Table 7c).

## **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 unrepresentative 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 injury and deaths.

Many serious injuries and deaths attributed to marine debris involve derelict fishing gear that cannot be associated with a particular fishery or in some cases originates outside of U.S. waters (3 northern fur seals were entangled dead in blue mesh netting of Chinese origin in 2009). Impacts of commercial fisheries that utilize nets, pots, and traps are likely to be greater than the number of observations because derelict gear can entangle animals for as long as it remains in the environment. 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 pinniped records (15%) resulted in the death of the animal 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, which were not suspected during initial examination of the animal. California sea lions with apparent non-serious human-related injuries were also later diagnosed to have died from acute domoic acid toxicity, a condition resulting from a diatom neurotoxin found in sea lion prey items such as anchovy (Scholin *et al.* 2000, Gulland *et al.* 2002).

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**Table 1.** Number and percentages of documented cases of human-related injury or mortality by source for marine mammals from 2007 to 2011.

| Source of human-related injury/mortality                      | Number | Percent of Total |
|---|--------|------------------|
| HOOK & LINE FISHERY   | 319    | 21               |
| SHOOTING  | 199    | 13               |
| POWER PLANT ENTRAINMENT                                       | 175    | 12               |
| GILLNET FISHERY   | 148    | 10               |
| MARINE DEBRIS ENTANGLEMENT                                    | 99     | 6.7              |
| CA SWORDFISH DRIFT GILLNET FISHERY                            | 84     | 5.6              |
| VESSEL STRIKE   | 83     | 5.5              |
| CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY              | 72     | 4.8              |
| SCIENTIFIC RESEARCH TRAWL                                     | 60     | 4                |
| UNIDENTIFIED FISHERY INTERACTION                              | 44     | 3                |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT                         | 43     | 2.9              |
| CRAB POT FISHERY ENTANGLEMENT                                 | 14     | 0.94             |
| MARINE DEBRIS INGESTION                                       | 13     | 0.87             |
| UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT                    | 13     | 0.87             |
| MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT           | 9      | 0.61             |
| GILLNET ENTANGLEMENT: TRIBAL FISHERY                          | 8      | 0.54             |
| RESEARCH ENTANGLEMENT   | 8      | 0.54             |
| STAB WOUNDS   | 8      | 0.54             |
| GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT                    | 7      | 0.47             |
| HUMAN-INDUCED ABANDONMENT                                     | 7      | 0.47             |
| CAR COLLISION   | 6      | 0.4              |
| DOG ATTACK  | 5      | 0.34             |
| BLUNT FORCE TRAUMA: CLUBBING                                  | 4      | 0.27             |
| UNDERWATER DETONATION EXERCISES                               | 4      | 0.27             |
| GAFF INJURY   | 3      | 0.2              |
| HOOK & LINE FISHERY/MARINE DEBRIS ENTANGLEMENT                | 3      | 0.2              |
| RESEARCH LONGLINE HOOKING                                     | 3      | 0.2              |
| BAIT BARGE NET ENTANGLEMENT                                   | 2      | 0.13             |
| DUNGENESS CRAB POT FISHERY ENTANGLEMENT                       | 2      | 0.13             |
| HARASSMENT  | 2      | 0.13             |
| HOOK & LINE FISHERY/MARINE DEBRIS INGESTION                   | 2      | 0.13             |
| LOBSTER TRAP ENTANGLEMENT                                     | 2      | 0.13             |
| MARINE DEBRIS ENTANGLEMENT/NET FISHERY ENTANGLEMENT           | 2      | 0.13             |
| MARINE DEBRIS ENTANGLEMENT/RIVER SALMON GILLNET FISHERY       | 2      | 0.13             |
| ROPE  | 2      | 0.13             |
| SHOOTING/SPEARING   | 2      | 0.13             |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT/VESSEL STRIKE           | 2      | 0.13             |
| COD POT FISHERY ENTANGLEMENT                                  | 1      | 0.067            |
| CRAB POT FISHERY ENTANGLEMENT/HOOK & LINE FISHERY             | 1      | 0.067            |
| ENTRAPMENT  | 1      | 0.067            |
| FIXED GEAR SABLEFISH FISHERY OBSERVER REPORT                  | 1      | 0.067            |
| HARPOON   | 1      | 0.067            |
| HOOK & LINE FISHERY AND STAB WOUNDS                           | 1      | 0.067            |
| KNIFE WOUNDS  | 1      | 0.067            |
| LOBSTER TRAP ENTANGLEMENT                                     | 1      | 0.067            |
| MARINE DEBRIS ENTANGLEMENT/HOOK & LINE FISHERY                | 1      | 0.067            |
| MARINE DEBRIS ENTANGLEMENT/TRAWL NET FISHERY ENTANGLEMENT     | 1      | 0.067            |
| NON-FISHERY ENTANGLEMENT                                      | 1      | 0.067            |
| OIL SPILL   | 1      | 0.067            |
| PACIFIC WHITING TRAWL FISHERY                                 | 1      | 0.067            |
| RED KING CRAB POT FISHERY ENTANGLEMENT                        | 1      | 0.067            |
| RESEARCH  | 1      | 0.067            |
| RESEARCH SCIENTIFIC LONGLINE                                  | 1      | 0.067            |
| RESEARCH: SEA BOTTOM SURVEY EQUIPMENT                         | 1      | 0.067            |
| SALMON GILLNET FISHERY ENTANGLEMENT                           | 1      | 0.067            |
| SALMON RESEARCH TRAWL   | 1      | 0.067            |
| SALMON/STURGEON SCIENTIFIC RESEARCH ENTRAPMENT                | 1      | 0.067            |
| SEAL BOMB   | 1      | 0.067            |
| SHOOTING/MARINE DEBRIS ENTANGLEMENT                           | 1      | 0.067            |
| SPRAY PAINTING  | 1      | 0.067            |
| TAR   | 1      | 0.067            |
| TRAWL FISHERY   | 1      | 0.067            |
| UNIDENTIFIED FISHERY INTERACTION / MARINE DEBRIS ENTANGLEMENT | 1      | 0.067            |
| UNIDENTIFIED TRAWL FISHERY/MARINE DEBRIS ENTANGLEMENT         | 1      | 0.067            |

**Table 2.** Total number of human-related marine mammal injury and mortality records (n=1,488) by species and assessment category from 2007 to 2011. NSI=non-serious injury, SI=serious injury.

|                              | DEAD       | NSI        | SI         | SI (PRORATE) |
|------------------------------|------------|------------|------------|--------------|
| BLUE WHALE                   | 9          | 0          | 0          | 1            |
| BOTTLENOSE DOLPHIN           | 2          | 0          | 2          | 0            |
| BRYDE'S WHALE                | 0          | 0          | 1          | 0            |
| CALIFORNIA SEA LION          | 334        | 128        | 469        | 0            |
| FIN WHALE                    | 7          | 0          | 3          | 1            |
| GRAY WHALE                   | 10         | 2          | 14         | 7            |
| GUADALUPE FUR SEAL           | 6          | 0          | 9          | 0            |
| HARBOR PORPOISE              | 27         | 1          | 1          | 0            |
| HARBOR SEAL                  | 119        | 27         | 49         | 0            |
| HUMPBACK WHALE               | 7          | 2          | 15         | 10           |
| LONG-BEAKED COMMON DOLPHIN   | 43         | 0          | 0          | 0            |
| MINKE WHALE                  | 0          | 1          | 0          | 1            |
| NORTHERN ELEPHANT SEAL       | 16         | 2          | 25         | 0            |
| NORTHERN FUR SEAL            | 12         | 1          | 4          | 0            |
| NORTHERN RIGHT WHALE DOLPHIN | 10         | 0          | 0          | 0            |
| PACIFIC WHITE-SIDED DOLPHIN  | 35         | 1          | 4          | 0            |
| RISSE'S DOLPHIN              | 4          | 0          | 0          | 0            |
| SHORT-BEAKED COMMON DOLPHIN  | 26         | 0          | 0          | 0            |
| SPERM WHALE                  | 5          | 1          | 1          | 0            |
| STRIPED DOLPHIN              | 1          | 0          | 0          | 0            |
| UNIDENTIFIED COMMON DOLPHIN  | 4          | 0          | 0          | 0            |
| UNIDENTIFIED DOLPHIN         | 1          | 1          | 0          | 0            |
| UNIDENTIFIED PINNIPED        | 6          | 0          | 0          | 0            |
| UNIDENTIFIED WHALE           | 0          | 1          | 13         | 6            |
| <b>ALL SPECIES</b>           | <b>684</b> | <b>168</b> | <b>610</b> | <b>26</b>    |

**Table 3.** Sources of human-caused injury or mortality for pinnipeds from 2007 to 2011.

| <b>Source of human-caused injury/mortality</b>                | <b>Number of records</b> |
|---|--------------------------|
| HOOK & LINE FISHERY   | 318                      |
| SHOOTING  | 194                      |
| POWER PLANT ENTRAINMENT                                       | 175                      |
| GILLNET FISHERY   | 120                      |
| MARINE DEBRIS ENTANGLEMENT                                    | 93                       |
| CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY              | 71                       |
| CA SWORDFISH DRIFT GILLNET FISHERY                            | 39                       |
| VESSEL STRIKE   | 34                       |
| SCIENTIFIC RESEARCH TRAWL                                     | 24                       |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT                         | 18                       |
| MARINE DEBRIS INGESTION                                       | 10                       |
| UNIDENTIFIED FISHERY INTERACTION                              | 10                       |
| MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT           | 9                        |
| STAB WOUNDS   | 8                        |
| GILLNET ENTANGLEMENT: TRIBAL FISHERY                          | 7                        |
| GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT                    | 7                        |
| HUMAN-INDUCED ABANDONMENT                                     | 7                        |
| RESEARCH ENTANGLEMENT   | 7                        |
| CAR COLLISION   | 6                        |
| DOG ATTACK  | 5                        |
| BLUNT FORCE TRAUMA: CLUBBING                                  | 4                        |
| GAFF INJURY   | 3                        |
| HOOK & LINE FISHERY/MARINE DEBRIS ENTANGLEMENT                | 3                        |
| RESEARCH LONGLINE HOOKING                                     | 3                        |
| BAIT BARGE NET ENTANGLEMENT                                   | 2                        |
| HARASSMENT  | 2                        |
| HOOK & LINE FISHERY/MARINE DEBRIS INGESTION                   | 2                        |
| MARINE DEBRIS ENTANGLEMENT/NET FISHERY ENTANGLEMENT           | 2                        |
| ROPE  | 2                        |
| SHOOTING/SPEARING   | 2                        |
| CRAB POT FISHERY ENTANGLEMENT/HOOK & LINE FISHERY             | 1                        |
| ENTRAPMENT  | 1                        |
| HOOK & LINE FISHERY AND STAB WOUNDS                           | 1                        |
| LOBSTER TRAP ENTANGLEMENT                                     | 1                        |
| MARINE DEBRIS ENTANGLEMENT/HOOK & LINE FISHERY                | 1                        |
| MARINE DEBRIS ENTANGLEMENT/TRAWL NET FISHERY ENTANGLEMENT     | 1                        |
| NON-FISHERY ENTANGLEMENT                                      | 1                        |
| OIL SPILL   | 1                        |
| PACIFIC WHITING TRAWL FISHERY                                 | 1                        |
| RESEARCH  | 1                        |
| RESEARCH SCIENTIFIC LONGLINE                                  | 1                        |
| SALMON RESEARCH TRAWL   | 1                        |
| SALMON/STURGEON SCIENTIFIC RESEARCH ENTRAPMENT                | 1                        |
| SEAL BOMB   | 1                        |
| SHOOTING/MARINE DEBRIS ENTANGLEMENT                           | 1                        |
| SPRAY PAINTING  | 1                        |
| TAR   | 1                        |
| TRAWL FISHERY   | 1                        |
| UNIDENTIFIED FISHERY INTERACTION / MARINE DEBRIS ENTANGLEMENT | 1                        |
| UNIDENTIFIED TRAWL FISHERY/MARINE DEBRIS ENTANGLEMENT         | 1                        |

**Table 4.** Sources of human-caused injury and mortality for large whales from 2007 to 2011.

| <b>Source of human-caused injury/mortality</b>      | <b>Number of records</b> |
|---|--------------------------|
| VESSEL STRIKE                                       | 46                       |
| UNIDENTIFIED FISHERY INTERACTION                    | 17                       |
| CRAB POT FISHERY ENTANGLEMENT                       | 14                       |
| UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT          | 13                       |
| GILLNET FISHERY                                     | 7                        |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT               | 6                        |
| CA SWORDFISH DRIFT GILLNET FISHERY                  | 4                        |
| DUNGENESS CRAB POT FISHERY ENTANGLEMENT             | 2                        |
| MARINE DEBRIS INGESTION                             | 2                        |
| COD POT FISHERY ENTANGLEMENT                        | 1                        |
| GILLNET ENTANGLEMENT: TRIBAL FISHERY                | 1                        |
| HARPOON   | 1                        |
| LOBSTER TRAP ENTANGLEMENT                           | 1                        |
| MARINE DEBRIS ENTANGLEMENT                          | 1                        |
| RED KING CRAB POT FISHERY ENTANGLEMENT              | 1                        |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT/VESSEL STRIKE | 1                        |

**Table 5.** Sources of human-caused injury and mortality for small cetaceans from 2007 to 2011.

| <b>Source of human-caused injury/mortality</b>          | <b>Number of records</b> |
|---|--------------------------|
| CA SWORDFISH DRIFT GILLNET FISHERY                      | 41                       |
| SCIENTIFIC RESEARCH TRAWL                               | 36                       |
| GILLNET FISHERY   | 21                       |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT                   | 19                       |
| UNIDENTIFIED FISHERY INTERACTION                        | 17                       |
| MARINE DEBRIS ENTANGLEMENT                              | 5                        |
| SHOOTING  | 5                        |
| UNDERWATER DETONATION EXERCISES                         | 4                        |
| VESSEL STRIKE   | 3                        |
| MARINE DEBRIS ENTANGLEMENT/RIVER SALMON GILLNET FISHERY | 2                        |
| CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY        | 1                        |
| FIXED GEAR SABLEFISH FISHERY OBSERVER REPORT            | 1                        |
| HOOK & LINE FISHERY                                     | 1                        |
| KNIFE WOUNDS  | 1                        |
| LOBSTER TRAP ENTANGLEMENT                               | 1                        |
| MARINE DEBRIS INGESTION                                 | 1                        |
| RESEARCH ENTANGLEMENT                                   | 1                        |
| RESEARCH: SEA BOTTOM SURVEY EQUIPMENT                   | 1                        |
| SALMON GILLNET FISHERY ENTANGLEMENT                     | 1                        |
| UNIDENTIFIED NET FISHERY ENTANGLEMENT/VESSEL STRIKE     | 1                        |

**Table 6.** Primary cause of injury or mortality by species/group from 2007 to 2011.

| <b>Species/Group</b>         | <b>Cause</b>                              | <b>Number</b> |
|------------------------------|---|---------------|
| <b>ALL PINNIPEDS</b>         | <b>HOOK AND LINE FISHERY</b>              | <b>318</b>    |
| <b>ALL LARGE WHALES</b>      | <b>VESSEL STRIKE</b>                      | <b>46</b>     |
| <b>ALL SMALL CETACEANS</b>   | <b>CA SWORDFISH DRIFT GILLNET FISHERY</b> | <b>41</b>     |
| BLUE WHALE                   | VESSEL STRIKE                             | 10            |
| BOTTLENOSE DOLPHIN           | CA SWORDFISH DRIFT GILLNET FISHERY        | 1             |
| BRYDE'S WHALE                | VESSEL STRIKE                             | 1             |
| CALIFORNIA SEA LION          | HOOK & LINE FISHERY                       | 283           |
| FIN WHALE                    | VESSEL STRIKE                             | 8             |
| GRAY WHALE                   | VESSEL STRIKE                             | 14            |
| GUADALUPE FUR SEAL           | MARINE DEBRIS ENTANGLEMENT                | 9             |
| HARBOR PORPOISE              | UNIDENTIFIED FISHERY INTERACTION          | 9             |
| HARBOR SEAL                  | POWER PLANT ENTRAINMENT                   | 62            |
| HUMPBACK WHALE               | CRAB POT FISHERY ENTANGLEMENT             | 10            |
| LONG-BEAKED COMMON DOLPHIN   | GILLNET FISHERY                           | 12            |
| MINKE WHALE                  | CA SWORDFISH DRIFT GILLNET FISHERY        | 1             |
| NORTHERN ELEPHANT SEAL       | MARINE DEBRIS ENTANGLEMENT                | 15            |
| NORTHERN FUR SEAL            | MARINE DEBRIS ENTANGLEMENT                | 5             |
| NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                 | 6             |
| PACIFIC WHITE-SIDED DOLPHIN  | SCIENTIFIC RESEARCH TRAWL                 | 30            |
| RISSE'S DOLPHIN              | CA SWORDFISH DRIFT GILLNET FISHERY        | 2             |
| SHORT-BEAKED COMMON DOLPHIN  | CA SWORDFISH DRIFT GILLNET FISHERY        | 23            |
| SPERM WHALE                  | CA SWORDFISH DRIFT GILLNET FISHERY        | 2             |
| STRIPED DOLPHIN              | UNIDENTIFIED FISHERY INTERACTION          | 1             |
| UNIDENTIFIED COMMON DOLPHIN  | UNIDENTIFIED NET FISHERY ENTANGLEMENT     | 2             |
| UNIDENTIFIED DOLPHIN         | GILLNET FISHERY                           | 2             |
| UNIDENTIFIED PINNIPED        | VESSEL STRIKE                             | 3             |
| UNIDENTIFIED WHALE           | UNIDENTIFIED FISHERY INTERACTION          | 7             |

**Table 7a.** Matrix of initial and final injury determinations for all pinniped records (n=1,207). NSI=non-serious injury, SI=serious injury.

| Pinnipeds | Final Injury Determination / Status |           |      |     |
|-----------|-------------------------------------|-----------|------|-----|
|           | Initial Determination               | CAPTIVITY | DEAD | NSI |
| DEAD      | 0                                   | 493       | 0    | 0   |
| NSI       | 1                                   | 24        | 132  | 1   |
| SI        | 5                                   | 241       | 213  | 97  |

**Table 7b.** Matrix of initial and final injury determinations for all large whale records (n=118). NSI=non-serious injury, SI=serious injury.

| Large Whales | Final Injury Determination / Status |      |     |    |
|--------------|-------------------------------------|------|-----|----|
|              | Initial Determination               | DEAD | NSI | SI |
| DEAD         | 38                                  | 0    | 0   | 0  |
| NSI          | 0                                   | 7    | 0   | 0  |
| SI           | 2                                   | 1    | 39  | 5  |
| SI (PRORATE) | 0                                   | 0    | 0   | 26 |

**Table 7c.** Matrix of initial and final injury determinations for all small cetacean records (n=163). NSI=non-serious injury, SI=serious injury.

| Small Cetaceans | Final Injury Determination / Status |      |     |
|-----------------|-------------------------------------|------|-----|
|                 | Initial Determination               | DEAD | NSI |
| DEAD            | 153                                 | 0    | 0   |
| NSI             | 0                                   | 3    | 0   |
| SI              | 1                                   | 0    | 6   |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species            | Interaction Type                             | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|--------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 1     | 28  | 1/28/2007  | BLUE WHALE         | VESSEL STRIKE                                | TILLAMOOK     | OR    | DEAD   | CONTAINER SHIP REPORTED STRIKING A WHALE  | DEAD   |                                      |                          |
| 2007 | 9     | 8   | 9/8/2007   | BLUE WHALE         | VESSEL STRIKE                                | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN HARBOR  | DEAD   |                                      |                          |
| 2007 | 9     | 13  | 9/13/2007  | BLUE WHALE         | VESSEL STRIKE                                | VENTURA       | CA    | DEAD   | CARCASS; VERTEBRAL COLUMN SEVERED IN LUMBAR/CAUDAL REGION; LARGE HEMATOMA EXTENDING FROM DORSAL FIN TO PECTORAL FIN ON LEFT LATERAL SIDE  | DEAD   |                                      |                          |
| 2007 | 9     | 19  | 9/19/2007  | BLUE WHALE         | VESSEL STRIKE                                | SANTA BARBARA | CA    | DEAD   | CARCASS; CRANIAL RIBS, THORACIC VERTEBRAE & CAUDAL SKULL FRACTURED  | DEAD   |                                      |                          |
| 2007 | 11    | 30  | 11/30/2007 | BLUE WHALE         | VESSEL STRIKE                                | SANTA BARBARA | CA    | DEAD   | CARCASS; SEVERED RIGHT PECTORAL FIN   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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 HSI-VM PERSONNEL            | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 10    | 2   | 10/2/2010  | BLUE WHALE         | VESSEL STRIKE                                | SAN MATEO     | CA    | DEAD   | BROKEN BONES AND HEMORRAGE CONSISTENT WITH VESSEL STRIKE  | DEAD   |                                      |                          |
| 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                             |                          |
| 2010 | 11    | 13  | 11/13/2010 | BOTTLENOSE DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY           | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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                             |                          |
| 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   |                                      |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                 | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 1     | 1   | 1/1/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES     | CA    | SI   | LIVE STRANDING; FISH HOOK WITH LINE ATTACHED IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = LEPTOSPIROSIS)   | DEAD   | P5A                                  |                          |
| 2007 | 1     | 2   | 1/2/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | SAN DIEGO       | CA    | NSI  | LIVE STRANDING; FISH HOOK IN LEFT REAR FLIPPER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 1     | 2   | 1/2/2007  | CALIFORNIA SEA LION | SHOOTING   | PIERCE          | WA    | DEAD   | BULLET COLLECTED FROM CARCASS   | DEAD   |                                      |                          |
| 2007 | 1     | 9   | 1/9/2007  | CALIFORNIA SEA LION | SHOOTING   | THURSTON        | WA    | DEAD   | NECROPSY PERFORMED  | DEAD   |                                      |                          |
| 2007 | 1     | 17  | 1/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 1     | 19  | 1/19/2007 | CALIFORNIA SEA LION | SHOOTING   | PIERCE          | WA    | DEAD   | NECROPSY PERFORMED  | DEAD   |                                      |                          |
| 2007 | 1     | 20  | 1/20/2007 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY               | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 1     | 20  | 1/20/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                  | SAN LUIS OBISPO | CA    | SI   | LIVE STRANDING; GREEN MONOFILAMENT NETTING WRAPPED AROUND NECK, CUTTING INTO BOTH SIDES OF MOUTH; NON-FATAL INJURY. ANIMAL TAKEN INTO REHAB, TREATED & RELEASED.    | NSI  | P7B                                  |                          |
| 2007 | 2     | 2   | 2/2/2007  | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | MONTEREY        | CA    | SI   | LIVE STRANDING; BLACK RUBBER BAND CUTTING INTO NECK, EXPOSED SKIN. ANIMAL DISENTANGLED & RELEASED ON SITE.  | NSI  | P7B                                  |                          |
| 2007 | 2     | 3   | 2/3/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 2     | 8   | 2/8/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | LOS ANGELES     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 2     | 22  | 2/22/2007 | CALIFORNIA SEA LION | SHOOTING   | SAN DIEGO       | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO BACK; MORTALITY (ANIMAL DIED IN REHAB)   | DEAD   | P9                                   |                          |
| 2007 | 2     | 26  | 2/26/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                  | LOS ANGELES     | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT AROUND NECK, CUTTING INTO SKIN & SUBCUTANEOUS TISSUE ON RIGHT SIDE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED) | NSI  | P7B                                  |                          |
| 2007 | 3     | 6   | 3/6/2007  | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK       | OR    | SI   | PACKING BAND OR LINE AROUND NECK  | SI   | P8A                                  |                          |
| 2007 | 3     | 6   | 3/6/2007  | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK       | OR    | SI   | PACKING BAND OR LINE AROUND NECK  | SI   | P8A                                  |                          |
| 2007 | 3     | 7   | 3/7/2007  | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK       | OR    | SI   | THIN LINE AROUND NECK   | SI   | P8A                                  |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 10  | 3/10/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 12  | 3/12/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 12  | 3/12/2007 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISHING LINE WRAPPED AROUND FRONT FLIPPER TAG; MORTALITY (ANIMAL EUTHANIZED IN REHAB. CAUSE OF DEATH = NEUROLOGICAL PROBLEM.)                       | DEAD   | P6                                   |                          |
| 2007 | 3     | 12  | 3/12/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 3     | 16  | 3/16/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 3     | 16  | 3/16/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | ORANGE        | CA    | SI   | LIVE STRANDING; FISH HOOK WITH ATTACHED FISHING LINE IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)                                       | NSI  | P5A                                  |                          |
| 2007 | 3     | 21  | 3/21/2007 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK     | OR    | SI   | THICK BLACK BAND AROUND NECK  | SI   | P8A                                  |                          |
| 2007 | 3     | 25  | 3/25/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | ORANGE        | CA    | SI   | LIVE STRANDING; FISH HOOK IN GUM; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 3     | 31  | 3/31/2007 | CALIFORNIA SEA LION | VESSEL STRIKE                                    | LOS ANGELES   | CA    | SI   | LIVE STRANDING; SERIES OF LARGE, FRESH, PARALLEL LACERATIONS EXTENDING FROM FRONT FLIPPERS DOWN LEFT ABDOMEN TO REAR FLIPPERS. ANIMAL EUTHANIZED IN REHABILITATION. | DEAD   | P15                                  |                          |
| 2007 | 4     | 6   | 4/6/2007  | CALIFORNIA SEA LION | VESSEL STRIKE                                    | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING OFFSHORE; PROPELLER-LIKE WOUNDS TO ABDOMINAL AREA; INTERNAL ORGANS EXPOSED   | DEAD   |                                      |                          |
| 2007 | 4     | 9   | 4/9/2007  | CALIFORNIA SEA LION | SHOOTING   | LOS ANGELES   | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO RIGHT CAUDAL LUMBAR AREA; MORTALITY (ANIMAL DIED IN REHAB)   | DEAD   | P9                                   |                          |
| 2007 | 4     | 13  | 4/13/2007 | CALIFORNIA SEA LION | SHOOTING   | ORANGE        | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO BACK OF NECK  | DEAD   |                                      |                          |
| 2007 | 4     | 17  | 4/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 4     | 18  | 4/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK     | OR    | SI   | LINE WRAPPED AROUND NECK  | SI   | P8A                                  |                          |
| 2007 | 4     | 19  | 4/19/2007 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK     | OR    | SI   | LINE WRAPPED AROUND NECK  | SI   | P8A                                  |                          |
| 2007 | 4     | 20  | 4/20/2007 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT                       | TILLAMOOK     | OR    | SI   | LINE WRAPPED AROUND NECK  | SI   | P8A                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 4     | 21  | 4/21/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 4     | 21  | 4/21/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | ORANGE        | CA    | SI   | LIVE STRANDING; FISH HOOK IN NOSTRIL; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5C                                  |                          |
| 2007 | 4     | 28  | 4/28/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISH HOOK & FISHING LURE IN LEFT UPPER LIP; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5C                                  |                          |
| 2007 | 4     | 30  | 4/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                  | VENTURA       | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; RESCUE TEAM UNABLE TO CAPTURE ANIMAL; FINAL STATUS UNKNOWN   | SI   | P8A                                  |                          |
| 2007 | 4     | 30  | 4/30/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISH HOOK IN STOMACH; MORTALITY (CAUSE OF DEATH = FISH HOOK INGESTION RESULTING IN GASTRIC ULCERATION & BLEEDING)  | DEAD   | P2                                   |                          |
| 2007 | 5     | 1   | 5/1/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 1   | 5/1/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 6   | 5/6/2007  | CALIFORNIA SEA LION | GILLNET FISHERY                                  | MONTEREY      | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT EMBEDDED IN NECK; NON-FATAL INJURY (ANIMAL DISENTANGLED & RELEASED ON SITE)   | NSI  | P7B                                  |                          |
| 2007 | 5     | 6   | 5/6/2007  | CALIFORNIA SEA LION | GILLNET FISHERY                                  | SAN FRANCISCO | CA    | SI   | LIVE STRANDING; PINK GILLNET FRAGMENT AROUND NECK; ANIMAL DISENTANGLED & RELEASED ON SITE  | NSI  | P7B                                  |                          |
| 2007 | 5     | 6   | 5/6/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5C                                  |                          |
| 2007 | 5     | 9   | 5/9/2007  | CALIFORNIA SEA LION | SHOOTING   | SAN MATEO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUNDS TO PELVIC AREA; MORTALITY (ANIMAL DIED IN REHAB)  | DEAD   | P12                                  |                          |
| 2007 | 5     | 11  | 5/11/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 11  | 5/11/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 12  | 5/12/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 5     | 13  | 5/13/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                  | SANTA CRUZ    | CA    | SI   | LIVE STRANDING; GREEN MONOFILAMENT NETTING AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2007 | 5     | 13  | 5/13/2007 | CALIFORNIA SEA LION | SHOOTING   | LOS ANGELES   | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO BACK. ANIMAL EUTHANIZED IN REHAB.   | DEAD   | P9                                   |                          |
| 2007 | 5     | 14  | 5/14/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 5     | 16  | 5/16/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 5     | 17  | 5/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 4 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 17  | 5/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 4 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 17  | 5/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 4 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 17  | 5/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 4 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 5     | 19  | 5/19/2007 | CALIFORNIA SEA LION | MARINE DEBRIS INGESTION                          | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISH HOOK DEEPLY EMBEDDED IN RIGHT FRONT FLIPPER; 2 CIGARETTE BUTTS BLOCKING PYLORUS; MORTALITY (DIED IN REHAB, CAUSE OF DEATH RELATED TO MARINE DEBRIS INGESTION) | DEAD   | P2                                   |                          |
| 2007 | 5     | 20  | 5/20/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | SAN DIEGO     | CA    | NSI  | LIVE STRANDING; FISH HOOK IN LEFT SIDE OF BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5C                                  |                          |
| 2007 | 5     | 20  | 5/20/2007 | CALIFORNIA SEA LION | VESSEL STRIKE                                    | MONTEREY      | CA    | DEAD   | U.S. COAST GUARD VESSEL COLLIDED WITH FREE-SWIMMING ANIMAL; MORTALITY  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type   | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 5     | 21  | 5/21/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY  | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISHING LURE IN MOUTH;<br>NON-FATAL INJURY (ANIMAL TAKEN INTO<br>REHAB, TREATED & RELEASED)   | NSI  | P2                                   |                          |
| 2007 | 5     | 22  | 5/22/2007 | CALIFORNIA SEA LION | SHOOTING   | SAN MATEO     | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 2007 | 5     | 23  | 5/23/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY OFFSHORE |               | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 5     | 23  | 5/23/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 3 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 23  | 5/23/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 3 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 24  | 5/24/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 24  | 5/24/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 24  | 5/24/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY  | LOS ANGELES   | CA    | NSI  | LIVE STRANDING; FISH HOOK WITH<br>ATTACHED LINE IN LOWER LIP; NON-FATAL<br>INJURY (ANIMAL TAKEN INTO REHAB,<br>TREATED & RELEASED)                                      | NSI  | P5B                                  |                          |
| 2007 | 5     | 25  | 5/25/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2007 | 5     | 26  | 5/26/2007 | CALIFORNIA SEA LION | SHOOTING   | SANTA CRUZ    | CA    | SI   | LIVE STRANDING; GUNSHOT WOUNDS TO<br>FACE, RADIOGRAPHS SHOWED 8 BUCKSHOT<br>PELLETS IN FACE, NON-FATAL INJURY<br>(ANIMAL TAKEN INTO REHAB, TREATED &<br>RELEASED)       | NSI  | P9                                   |                          |
| 2007 | 5     | 26  | 5/26/2007 | CALIFORNIA SEA LION | SHOOTING   | MONTEREY      | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>HEAD; MORTALITY (ANIMAL EUTHANIZED IN<br>REHAB)   | DEAD   | P9                                   |                          |
| 2007 | 5     | 26  | 5/26/2007 | CALIFORNIA SEA LION | SHOOTING   | MONTEREY      | CA    | SI   | LIVE STRANDING; GUNSHOT WOUNDS TO<br>HEAD, RADIOGRAPHS SHOWED 4 BULLETS IN<br>SKULL; MORTALITY (ANIMAL EUTHANIZED IN<br>REHAB)  | DEAD   | P9                                   |                          |
| 2007 | 5     | 26  | 5/26/2007 | CALIFORNIA SEA LION | GILLNET FISHERY  | MONTEREY      | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>EMBEDDED IN NECK, 0.5 INCH DIAMETER<br>OPEN WOUND AROUND NECK; NON-FATAL<br>INJURY (ANIMAL TAKEN INTO REHAB,<br>TREATED & RELEASED) | NSI  | P7B                                  |                          |
| 2007 | 5     | 27  | 5/27/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 27  | 5/27/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 27  | 5/27/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY  | SANTA BARBARA | CA    | NSI  | LIVE STRANDING; FISH HOOK IN LEFT<br>FOREFLIPPER; NON-FATAL INJURY (ANIMAL<br>TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5C                                  |                          |
| 2007 | 5     | 28  | 5/28/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 28  | 5/28/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 5     | 28  | 5/28/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY  | LOS ANGELES   | CA    | SI   | LIVE STRANDING; MULTIPLE FISH HOOKS &<br>ATTACHED LINE IN LIP AND BOTH FRONT<br>FLIPPERS; NON-FATAL INJURY (ANIMAL TAKEN<br>INTO REHAB, TREATED & RELEASED)             | NSI  | P5C                                  |                          |
| 2007 | 5     | 28  | 5/28/2007 | CALIFORNIA SEA LION | GILLNET FISHERY  | LOS ANGELES   | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>AROUND NECK; NON-FATAL INJURY (ANIMAL<br>TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 2007 | 5     | 30  | 5/30/2007 | CALIFORNIA SEA LION | SHOOTING   | SAN MATEO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>CHEST; MORTALITY (ANIMAL DIED AT<br>STRANDING SITE, BULLET RETRIEVED FROM<br>CHEST DURING POST-MORTEM EXAM)                         | DEAD   | P12                                  |                          |
| 2007 | 5     | 31  | 5/31/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2007 | 6     | 1   | 6/1/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2007 | 6     | 2   | 6/2/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                      | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2007 | 6     | 2   | 6/2/2007  | CALIFORNIA SEA LION | SHOOTING   | SANTA CRUZ    | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO BODY  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type           | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|----------------------------|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 6     | 2   | 6/2/2007  | CALIFORNIA SEA LION | SHOOTING                   | SANTA CRUZ    | CA    | DEAD   | CARCASS: GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 2007 | 6     | 2   | 6/2/2007  | CALIFORNIA SEA LION | SHOOTING                   | SANTA CRUZ    | CA    | DEAD   | CARCASS: GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 2007 | 6     | 2   | 6/2/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISHING LINE COMING FROM MOUTH, RADIOGRAPHS REVEALED 2 FISH HOOKS, SWIVEL & SINKER IN STOMACH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED) | NSI  | P2                                   |                          |
| 2007 | 6     | 2   | 6/2/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | SAN DIEGO     | CA    | SI   | LIVE STRANDING; 2 FISH HOOKS IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5A                                  |                          |
| 2007 | 6     | 3   | 6/3/2007  | CALIFORNIA SEA LION | SHOOTING                   | SANTA CRUZ    | CA    | NSI  | LIVE STRANDING; RADIOGRAPHS REVEALED 2 PELLETS IN LEFT & RIGHT LOWER CHEEKS; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)                                   | NSI  | P9                                   |                          |
| 2007 | 6     | 3   | 6/3/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISH HOOK IN LIP; 2ND FISH HOOK WITH ATTACHED LINE COMING FROM MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)                          | NSI  | P5A                                  |                          |
| 2007 | 6     | 6   | 6/6/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 6     | 6   | 6/6/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | SAN DIEGO     | CA    | NSI  | LIVE STRANDING; FISH HOOK IN FLIPPER; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = UNKNOWN)  | DEAD   | P5C                                  |                          |
| 2007 | 6     | 8   | 6/8/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 6     | 8   | 6/8/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 6     | 8   | 6/8/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 6     | 10  | 6/10/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 6     | 10  | 6/10/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISHING LINE COMING OUT OF MOUTH & WRAPPED AROUND FLIPPER TAG; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)                                 | NSI  | P5A                                  |                          |
| 2007 | 6     | 11  | 6/11/2007 | CALIFORNIA SEA LION | GILLNET FISHERY            | CLATSOP       | OR    | SI   | SEA LION WITH FISHING NET WRAPPED TIGHT AROUND NECK. NO DISENTANGLEMENT ATTEMPT.  | SI   | P8A                                  |                          |
| 2007 | 6     | 13  | 6/13/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | SAN DIEGO     | CA    | SI   | LIVE STRANDING; 2 FISH HOOKS IN LOWER JAW; 2 FISH HOOKS ON VENTRUM; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 6     | 13  | 6/13/2007 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT | LINCOLN       | OR    | SI   | WHITISH BAND WRAPPED TIGHTLY AROUND LOWER NECK; APPEARED TO BE CUTTING INTO SKIN AND BLUBBER ON DORSAL ASPECT; ACTIVELY SWIMMING  | SI   | P8A                                  |                          |
| 2007 | 6     | 14  | 6/14/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | SAN DIEGO     | CA    | SI   | LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5A                                  |                          |
| 2007 | 6     | 14  | 6/14/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISHING LINE COMING FROM MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5A                                  |                          |
| 2007 | 6     | 16  | 6/16/2007 | CALIFORNIA SEA LION | SHOOTING                   | CLATSOP       | OR    | DEAD   | BACK OF SKULL BLOWN OUT, APPEARS TO HAVE BEEN SHOT  | DEAD   |                                      |                          |
| 2007 | 6     | 18  | 6/18/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | ORANGE        | CA    | SI   | LIVE STRANDING; FISH HOOKS IN BOTH CORNERS OF MOUTH & IN HINDQUARTERS; FISH HOOK IN STOMACH; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = STARVATION)                    | DEAD   | P2                                   |                          |
| 2007 | 6     | 20  | 6/20/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY        | SANTA CRUZ    | CA    | NSI  | LIVE STRANDING; FISH HOOK WITH ATTACHED LINE & SINKER EMBEDDED IN LEFT FRONT FLIPPER & HIP; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)                    | NSI  | P5C                                  |                          |
| 2007 | 6     | 20  | 6/20/2007 | CALIFORNIA SEA LION | SHOOTING                   | CLATSOP       | OR    | DEAD   | SKULL COLLECTED   | DEAD   |                                      |                          |
| 2007 | 6     | 21  | 6/21/2007 | CALIFORNIA SEA LION | SHOOTING                   | SAN DIEGO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO CHEST; MORTALITY (ANIMAL DIED IN REHAB)  | DEAD   | P12                                  |                          |
| 2007 | 6     | 24  | 6/24/2007 | CALIFORNIA SEA LION | STAB WOUNDS                | LOS ANGELES   | CA    | DEAD   | CARCASS; SPEAR FROM SPEAR GUN IN CHEST  | DEAD   |                                      |                          |
| 2007 | 6     | 27  | 6/27/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                  | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 6     | 30  | 6/30/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                           | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 6     | 30  | 6/30/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | ORANGE          | CA    | SI   | LIVE STRANDING; FISH HOOK IN RIGHT CHEEK; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = SEVERE PERITONITIS)   | DEAD   | P5B                                  |                          |
| 2007 | 7     | 3   | 7/3/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                           | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 7     | 3   | 7/3/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | SANTA CRUZ      | CA    | NSI  | LIVE STRANDING; FISH HOOKS IN LEFT FRONT & REAR FLIPPERS; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = ACUTE DOMOIC ACID TOXICITY)   | DEAD   | P5C                                  |                          |
| 2007 | 7     | 5   | 7/5/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                           | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 7     | 9   | 7/9/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | SANTA BARBARA   | CA    | NSI  | LIVE STRANDING; FISH HOOKS IN BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 7     | 11  | 7/11/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                           | LOS ANGELES     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 7     | 11  | 7/11/2007 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY ENTANGLEMENT             | SAN LUIS OBISPO | CA    | SI   | LIVE STRANDING; THICK WHITE STRAND OF NYLON NETTING CUTTING INTO NECK; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO CHRONIC DOMOIC ACID TOXICITY)   | DEAD   | P8A                                  |                          |
| 2007 | 7     | 14  | 7/14/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY  | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 7     | 14  | 7/14/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY  | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 7     | 14  | 7/14/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY  | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 7     | 14  | 7/14/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY  | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 7     | 14  | 7/14/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY  | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 7     | 15  | 7/15/2007 | CALIFORNIA SEA LION | SHOOTING  | SAN LUIS OBISPO | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO JAW, RESULTING IN BROKEN JAW; MORTALITY (ANIMAL EUTHANIZED IN REHAB)   | DEAD   | P10                                  |                          |
| 2007 | 7     | 20  | 7/20/2007 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY  | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 7     | 23  | 7/23/2007 | CALIFORNIA SEA LION | CRAB POT FISHERY ENTANGLEMENT/HOOK & LINE FISHERY | MARIN           | CA    | SI   | LIVE STRANDING; ANIMAL PULLED OUT OF CRAB POT BY PRIVATE CITIZEN; FISHING LURE IN LIP; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO DOMOIC ACID TOXICITY)   | DEAD   | P7B                                  |                          |
| 2007 | 7     | 24  | 7/24/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | LOS ANGELES     | CA    | NSI  | LIVE STRANDING; FISH HOOK IN FRONT FLIPPER; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 7     | 26  | 7/26/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | VENTURA         | CA    | SI   | LIVE STRANDING; FISH HOOK IN LEFT CORNER OF MOUTH; 2 FISH HOOKS IN STOMACH; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = SEPTICEMIA)   | DEAD   | P2                                   |                          |
| 2007 | 7     | 26  | 7/26/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | SANTA CRUZ      | CA    | SI   | LIVE STRANDING; FISH HOOKS IN MOUTH, LEFT FRONT FLIPPER, LEFT REAR FLIPPER & LEFT SIDE OF BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 7     | 27  | 7/27/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY AND STAB WOUNDS               | ORANGE          | CA    | SI   | LIVE STRANDING; 2 FISH HOOKS IN LEFT FRONT FLIPPER; 1 FISH HOOK IN RIGHT FRONT FLIPPER; 2 FISH HOOKS IN RIGHT REAR FLIPPER; 1 FISH HOOK IN ESOPHAGUS WITH ATTACHED LINE EXTENDING INTO STOMACH; KNIFE WOUNDS TO CHEST; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO SEVERITY OF KNIFE WOUNDS) | DEAD   | P12                                  |                          |
| 2007 | 7     | 30  | 7/30/2007 | CALIFORNIA SEA LION | SHOOTING  | SAN MATEO       | CA    | DEAD   | CARCASS; SHOTGUN WAD EMBEDDED IN FLESH BEHIND EYEBALL   | DEAD   |                                      |                          |
| 2007 | 7     | 30  | 7/30/2007 | CALIFORNIA SEA LION | SHOOTING  | SAN DIEGO       | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO BACK; MORTALITY (ANIMAL DIED IN REHAB)   | DEAD   | P9                                   |                          |
| 2007 | 7     | 30  | 7/30/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                               | MONTEREY        | CA    | SI   | LIVE STRANDING; FISH HOOK IN MOUTH; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                    | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 8     | 5   | 8/5/2007  | CALIFORNIA SEA LION | SHOOTING  | SAN DIEGO       | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO HEAD; MORTALITY (ANIMAL DIED IN REHAB, .22 CALIBER BULLET EXTRACTED FROM BRAIN)   | DEAD   | P9                                   |                          |
| 2007 | 8     | 6   | 8/6/2007  | CALIFORNIA SEA LION | GILLNET FISHERY                                     | SAN LUIS OBISPO | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2007 | 8     | 6   | 8/6/2007  | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | CLATSOP         | OR    | SI   | LIVE ENTANGLED SEA LION REPORTED ON DOCK; NO DISTENSANGLEMENT EFFORT.  | SI   | P6                                   |                          |
| 2007 | 8     | 8   | 8/8/2007  | CALIFORNIA SEA LION | STAB WOUNDS   | ORANGE          | CA    | SI   | LIVE STRANDING; 3 INCH STAB WOUND TO RIGHT SHOULDER; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH RELATED TO STAB WOUND)                                  | DEAD   | P9                                   |                          |
| 2007 | 8     | 12  | 8/12/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | LOS ANGELES     | CA    | NSI  | LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT SIDE OF BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)                            | NSI  | P5C                                  |                          |
| 2007 | 8     | 15  | 8/15/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                     | SANTA CRUZ      | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2007 | 8     | 17  | 8/17/2007 | CALIFORNIA SEA LION | UNIDENTIFIED FISHERY INTERACTION                    | MONTEREY        | CA    | SI   | LIVE STRANDING; BROKEN LOWER JAW; SUSPECTED 'SEAL BOMB' INJURY. MORTALITY (ANIMAL EUTHANIZED IN REHAB)   | DEAD   | P10                                  |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 18  | 8/18/2007 | CALIFORNIA SEA LION | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA         | CA    | DEAD   | 1 OF 7 CARCASSES IN ABANDONED NET THAT BECAME SNAGGED ON OIL PLATFORM  | DEAD   |                                      |                          |
| 2007 | 8     | 20  | 8/20/2007 | CALIFORNIA SEA LION | SHOOTING  | CONTRA COSTA    | CA    | NSI  | LIVE STRANDING; RADIOGRAPHS REVEALED 2 PELLETS IN SUBCUTANEOUS TISSUE ON BACK; MORTALITY (ANIMAL EUTHANIZED IN REHAB DUE TO CHRONIC DOMOIC ACID TOXICITY)    | DEAD   | P9                                   |                          |
| 2007 | 8     | 23  | 8/23/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SANTA CRUZ      | CA    | NSI  | LIVE STRANDING; FISH HOOK IN BACK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 8     | 24  | 8/24/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | LOS ANGELES     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 8     | 24  | 8/24/2007 | CALIFORNIA SEA LION | SHOOTING  | SAN LUIS OBISPO | CA    | NSI  | LIVE STRANDING; MORTALITY (ANIMAL DIED ON BEACH, NECROPSY REVEALED PELLET IN SOFT TISSUE ON RIGHT SIDE OF FACE, CAUSE OF DEATH = ACUTE DOMOIC ACID TOXICITY) | DEAD   | P9                                   |                          |
| 2007 | 8     | 31  | 8/31/2007 | CALIFORNIA SEA LION | SHOOTING  | SAN MATEO       | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD   | DEAD   |                                      |                          |
| 2007 | 9     | 7   | 9/7/2007  | CALIFORNIA SEA LION | SHOOTING  | CONTRA COSTA    | CA    | DEAD   | CARCASS; BACK OF SKULL BLOWN APART   | DEAD   |                                      |                          |
| 2007 | 9     | 10  | 9/10/2007 | CALIFORNIA SEA LION | SHOOTING  | SONOMA          | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO SHOULDER, FRACTURING SCAPULA; MORTALITY (ANIMAL EUTHANIZED IN REHAB)  | DEAD   | P10                                  |                          |
| 2007 | 9     | 14  | 9/14/2007 | CALIFORNIA SEA LION | SHOOTING  | SANTA CRUZ      | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO BODY   | DEAD   |                                      |                          |
| 2007 | 9     | 16  | 9/16/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SANTA CRUZ      | CA    | NSI  | LIVE STRANDING; FISH HOOK WITH ATTACHED LINE IN LEFT FRONT FLIPPER; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = OSTEOMYELITIS (BONE INFECTION))        | DEAD   | P5C                                  |                          |
| 2007 | 9     | 18  | 9/18/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | ORANGE          | CA    | NSI  | LIVE STRANDING; FISH HOOK IN LOWER LEFT GUM; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 9     | 26  | 9/26/2007 | CALIFORNIA SEA LION | SHOOTING  | VENTURA         | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD   | DEAD   |                                      |                          |

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| Year | Month | Day | Date       | Species             | Interaction Type                      | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|---------------------------------------|--------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 9     | 28  | 9/28/2007  | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL             | TILLAMOOK          | OR    | DEAD   | DEAD SEA LION IN RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2007 | 9     | 29  | 9/29/2007  | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT         | SAN DIEGO          | CA    | SI   | LIVE STRANDING; ANIMAL ENTANGLED IN<br>MASS OF FISH HOOKS & LINE; NON-FATAL<br>INJURY (ANIMAL TAKEN INTO REHAB,<br>TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2007 | 10    | 1   | 10/1/2007  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                   | LINCOLN            | OR    | SI   | LINE IS WRAPPED TIGHTLY AROUND NECK;<br>SKIN IS BROKEN, PINK BLUBBER VISIBLE;<br>ANIMAL OTHERWISE APPEARS ROBUST AND<br>ALERT AND RESPONSIVE; REMOVAL OF LINE<br>IS NOT DEEMED FEASIBLE AT THIS TIME | SI   | P8A                                  |                          |
| 2007 | 10    | 3   | 10/3/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | ORANGE             | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 10    | 3   | 10/3/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | SAN DIEGO          | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS<br>SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 10    | 3   | 10/3/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | LOS ANGELES        | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 10    | 7   | 10/7/2007  | CALIFORNIA SEA LION | VESSEL STRIKE                         | LOS ANGELES        | CA    | DEAD   | CARCASS FLOATING IN LOS ANGELES<br>HARBOR; PROPELLER WOUNDS TO VENTRUM   | DEAD   |                                      |                          |
| 2007 | 10    | 7   | 10/7/2007  | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT         | LOS ANGELES        | CA    | NSI  | FISHING LINE WRAPPED AROUND FLIPPER<br>TAG; NON-FATAL INJURY (ANIMAL TAKEN INTO<br>REHAB, TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 2007 | 10    | 8   | 10/8/2007  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 10    | 9   | 10/9/2007  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 10    | 10  | 10/10/2007 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 10    | 11  | 10/11/2007 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 10    | 12  | 10/12/2007 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 10    | 12  | 10/12/2007 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 10    | 12  | 10/12/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                       | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; OPEN GILLNET-LIKE WOUND<br>ACROSS BACK ABOVE BOTH FRONT<br>FLIPPERS; MORTALITY (ANIMAL EUTHANIZED<br>IN REHAB DUE TO CHRONIC DOMOIC ACID<br>TOXICITY)                                | DEAD   | P8A                                  |                          |
| 2007 | 10    | 23  | 10/23/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                       | SAN LUIS<br>OBISPO | CA    | SI   | LIVE STRANDING; GREEN MONOFILAMENT<br>GILLNET FRAGMENT AROUND NECK;<br>MORTALITY (ANIMAL EUTHANIZED IN REHAB)  | DEAD   | P8A                                  |                          |
| 2007 | 10    | 25  | 10/25/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | SAN LUIS<br>OBISPO | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 10    | 25  | 10/25/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                   | ORANGE             | CA    | SI   | LIVE STRANDING; FISH HOOK & FISHING LURE<br>IN LOWER LEFT SIDE OF MOUTH; NON-FATAL<br>INJURY (ANIMAL TAKEN INTO REHAB,<br>TREATED & RELEASED)  | NSI  | P2                                   |                          |
| 2007 | 10    | 26  | 10/26/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | LOS ANGELES        | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 10    | 28  | 10/28/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                   | ORANGE             | CA    | SI   | LIVE STRANDING; APPROXIMATELY 70 FISH<br>HOOKS & FISHING LURES (COMBINED) IN<br>MOUTH, ABDOMEN, ALL FLIPPERS, CHEST &<br>EAR; NON-FATAL INJURY (ANIMAL TAKEN INTO<br>REHAB, TREATED & RELEASED)      | NSI  | P5C                                  |                          |
| 2007 | 10    | 28  | 10/28/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                   | SAN DIEGO          | CA    | SI   | LIVE STRANDING; FISH HOOKS IN MOUTH &<br>RIGHT REAR FLIPPER; NON-FATAL INJURY<br>(ANIMAL TAKEN INTO REHAB, TREATED &<br>RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 10    | 29  | 10/29/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | SAN DIEGO          | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 11    | 3   | 11/3/2007  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | LOS ANGELES        | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 11    | 10  | 11/10/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                       | LOS ANGELES        | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>AROUND NECK; MORTALITY (ANIMAL DIED IN<br>REHAB, CAUSE OF DEATH = UNKNOWN)   | DEAD   | P8A                                  |                          |
| 2007 | 11    | 11  | 11/11/2007 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 11    | 15  | 11/15/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | LOS ANGELES        | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2007 | 11    | 18  | 11/18/2007 | CALIFORNIA SEA LION | BLUNT FORCE TRAUMA:<br>CLUBBING       | VENTURA            | CA    | DEAD   | CARCASS; HEAD INJURY; ANIMAL SEEN ALIVE<br>PREVIOUS EVENING; FOUND DEAD WITH<br>BLOOD PRESENT ON RIGHT EAR & MOUTH;<br>LARGE BLOOD-STAINED ROCK FOUND NEXT<br>TO CARCASS                             | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species             | Interaction Type                               | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 11    | 19  | 11/19/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                            | ORANGE        | CA    | SI   | LIVE STRANDING; FISHING LURE IN MOUTH;<br>NON-FATAL INJURY (ANIMAL TAKEN INTO<br>REHAB, TREATED & RELEASED)   | NSI  | P2                                   |                          |
| 2007 | 11    | 19  | 11/19/2007 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                            | LINCOLN       | OR    | SI   | MONOFILAMENT WRAPPED TIGHTLY AROUND<br>NECK; ANIMAL NOT ACCESSIBLE FOR<br>DISENTANGLEMENT   | SI   | P8A                                  |                          |
| 2007 | 11    | 27  | 11/27/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                        | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2007 | 12    | 17  | 12/17/2007 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2007 | 12    | 17  | 12/17/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | LOS ANGELES   | CA    | SI   | LIVE STRANDING; GILLNET-LIKE WOUNDS TO<br>SHOULDER AREA; NON-FATAL INJURY<br>(ANIMAL TAKEN INTO REHAB, TREATED &<br>RELEASED)   | NSI  | P1                                   |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | DEAD   | 1 OF 12 SEA LION CARCASSES ENTANGLED IN<br>ACTIVE MONOFILAMENT GILLNET  | DEAD   |                                      |                          |
| 2008 | 1     | 3   | 1/3/2008   | CALIFORNIA SEA LION | SHOOTING                                       | LOS ANGELES   | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO MID<br>DORSUM; MORTALITY (ANIMAL DIED IN<br>REHAB, SINGLE BULLET EXTRACTED FROM<br>SUBCUTANEOUS TISSUE IN THORAX DURING<br>NECROPSY)   | DEAD   | P9                                   |                          |
| 2008 | 1     | 16  | 1/16/2008  | CALIFORNIA SEA LION | HOOK & LINE FISHERY/MARINE<br>DEBRIS INGESTION | SAN JOAQUIN   | CA    | SI   | LIVE STRANDING; FISH HOOK IN STOMACH;<br>ANIMAL REGURGITATED PLASTIC BAG & FOAM<br>SPONGE; NON-FATAL INJURY (ANIMAL TAKEN<br>INTO REHAB, TREATED & RELEASED)  | NSI  | P2                                   |                          |
| 2008 | 1     | 16  | 1/16/2008  | CALIFORNIA SEA LION | SHOOTING                                       | SAN DIEGO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO MID<br>DORSUM; MORTALITY (ANIMAL DIED IN<br>REHAB, SINGLE BULLET EXTRACTED DORSAL<br>TO THORACOLUMBAR VERTEBRAE DURING<br>NECROPSY)  | DEAD   | P9                                   |                          |
| 2008 | 1     | 20  | 1/20/2008  | CALIFORNIA SEA LION | BAIT BARGE NET<br>ENTANGLEMENT                 | LOS ANGELES   | CA    | NSI  | ANIMAL ENTANGLED IN PROTECTIVE NETTING<br>ON BAIT BARGE; NON-FATAL INJURY (ANIMAL<br>DISENTANGLED & RELEASED ON SITE)   | NSI  | P7B                                  |                          |
| 2008 | 1     | 28  | 1/28/2008  | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                  | SANTA BARBARA | CA    | SI   | LIVE STRANDING; INNER TUBE BAND CUTTING<br>INTO SHOULDER; NON-FATAL INJURY (ANIMAL<br>TAKEN INTO REHAB, DISENTANGLED,<br>TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 2008 | 2     | 7   | 2/7/2008   | CALIFORNIA SEA LION | GILLNET FISHERY                                | ORANGE        | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>WRAPPED AROUND NECK; NON-FATAL INJURY<br>(ANIMAL TAKEN INTO REHAB, DISENTANGLED,<br>TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2008 | 3     | 16  | 3/16/2008  | CALIFORNIA SEA LION | SHOOTING                                       | SAN DIEGO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>CHEST NEAR LEFT FRONT FLIPPER;<br>RADIOGRAPHS REVEALED TWO BULLETS;<br>ONE BULLET FRAGMENTED INTO FOUR<br>PIECES (ONE SMALL FRAGMENT ABOVE LEFT<br>HUMERUS, TWO SMALL FRAGMENTS ON LEFT<br>SIDE OF CERVICAL VERTEBRAE, ONE LARGE<br>FRAGMENT TO RIGHT OF CERVICAL<br>VERTEBRAE); SECOND INTACT BULLET<br>LOCATED TO LEFT OF CAUDAL THORACIC<br>VERTEBRAE; NON-FATAL INJURY (ANIMAL<br>TAKEN INTO REHAB, INTACT BULLET<br>EXTRACTED & ANIMAL RELEASED AFTER 30<br>DAYS OF REHAB) | NSI  | P9                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                               | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2008 | 4     | 7   | 4/7/2008  | CALIFORNIA SEA LION | HOOK & LINE FISHERY/MARINE DEBRIS ENTANGLEMENT | SAN DIEGO       | CA    | NSI  | LIVE STRANDING; ANIMAL WRAPPED IN FISHING LINE; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2008 | 4     | 14  | 4/14/2008 | CALIFORNIA SEA LION | SALMON/STURGEON SCIENTIFIC RESEARCH ENTRAPMENT | YOLO            | CA    | DEAD   | CARCASS RETRIEVED FROM CDFG FYKE TRAP   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2008 | 4     | 17  | 4/17/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL                      | OFFSHORE        | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 4     | 18  | 4/18/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL                      | OFFSHORE        | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 4     | 20  | 4/20/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL                      | OFFSHORE        | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2008 | 4     | 27  | 4/27/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL                      | OFFSHORE        | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                               | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2008 | 5     | 28  | 5/28/2008 | CALIFORNIA SEA LION | HOOK & LINE FISHERY/MARINE DEBRIS ENTANGLEMENT | 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type          | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type          | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, S (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---------------------------|-----------------|-------|---|--|--|--------------------------------------|--------------------------|
| 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 SUBCUTIS AREA WITHIN BLUBBER LAYER AT BASE OF NECK)                     | DEAD   | P9                                   |                          |
| 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                                  |                          |
| 2008 | 7     | 28  | 7/28/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | HUMBOLDT        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2008 | 8     | 7   | 8/7/2008  | CALIFORNIA SEA LION | SHOOTING                  | SAN DIEGO       | CA    | DEAD  | CARCASS; GUNSHOT WOUNDS TO NECK & BACK   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008 | CALIFORNIA SEA LION | SCIENTIFIC RESEARCH TRAWL | OFFSHORE        | CA    | DEAD  | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species             | Interaction Type                       | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2008 | 9     | 6   | 9/6/2008   | CALIFORNIA SEA LION | RESEARCH SCIENTIFIC<br>LONGLINE        | VENTURA       | CA    | NSI  | LIVE ANIMAL HOOKED THROUGH LIP DURING<br>NMFS LONGLINE RESEARCH CRUISE; ANIMAL<br>RELEASED ALIVE BY CUTTING LEADER<br>APPROXIMATELY 1 FOOT ABOVE HOOK; FINAL<br>STATUS OF ANIMAL UNKNOWN  | NSI  | P5B                                  |                          |
| 2008 | 9     | 12  | 9/12/2008  | CALIFORNIA SEA LION | SHOOTING                               | SAN MATEO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>HEAD; MORTALITY (ANIMAL EUTHANIZED IN<br>REHAB; RADIOGRAPHS INDICATED LEAD<br>FRAGMENTS IN HEAD)  | DEAD   | P9                                   |                          |
| 2008 | 9     | 15  | 9/15/2008  | CALIFORNIA SEA LION | RESEARCH SCIENTIFIC<br>LONGLINE        | ORANGE        | CA    | NSI  | LIVE ANIMAL HOOKED THROUGH LIP DURING<br>NMFS LONGLINE RESEARCH CRUISE; ANIMAL<br>RELEASED ALIVE BY CUTTING LEADER<br>APPROXIMATELY 1 FOOT ABOVE HOOK; FINAL<br>STATUS OF ANIMAL UNKNOWN  | NSI  | P5B                                  |                          |
| 2008 | 9     | 16  | 9/16/2008  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                    | SANTA CRUZ    | CA    | DEAD   | CARCASS; FISH HOOK IN FLIPPER   | DEAD   | P5D                                  |                          |
| 2008 | 9     | 16  | 9/16/2008  | CALIFORNIA SEA LION | SHOOTING                               | SANTA CRUZ    | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO JAW;<br>MORTALITY (ANIMAL EUTHANIZED IN REHAB,<br>NECROPSY REVEALED BULLET FRAGMENTS<br>IN RIGHT SIDE OF JAW)  | DEAD   | P9                                   |                          |
| 2008 | 9     | 21  | 9/21/2008  | CALIFORNIA SEA LION | SHOOTING                               | SAN MATEO     | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO LEFT<br>FLIPPER AXILLARY AREA; FIELD NECROPSY<br>REVEALED TWO BROKEN RIBS, BULLET<br>LODGED IN RIB ON RIGHT SIDE OF BODY  | DEAD   |                                      |                          |
| 2008 | 9     | 21  | 9/21/2008  | CALIFORNIA SEA LION | SHOOTING                               | SAN MATEO     | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO SIDE; FIELD<br>NECROPSY REVEALED RIB WITH HOLE IN IT  | DEAD   |                                      |                          |
| 2008 | 9     | 22  | 9/22/2008  | CALIFORNIA SEA LION | GILLNET FISHERY                        | VENTURA       | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>WRAPPED AROUND CHEST & FLIPPERS; NON-<br>FATAL INJURY (ANIMAL TAKEN INTO REHAB,<br>DISENTANGLED, TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 2008 | 9     | 28  | 9/28/2008  | CALIFORNIA SEA LION | SHOOTING                               | SONOMA        | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>RIGHT EYE; MORTALITY (ANIMAL EUTHANIZED<br>IN REHAB, RADIOGRAPHS SHOWED BULLET IN<br>RIGHT EYE)   | DEAD   | P9                                   |                          |
| 2008 | 10    | 3   | 10/3/2008  | CALIFORNIA SEA LION | GILLNET FISHERY                        | VENTURA       | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>WRAPPED AROUND NECK; NON-FATAL INJURY<br>(ANIMAL TAKEN INTO REHAB, DISENTANGLED,<br>TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2008 | 10    | 6   | 10/6/2008  | CALIFORNIA SEA LION | SHOOTING                               | MARIN         | CA    | DEAD   | CARCASS; SHOTGUN-LIKE WOUNDS TO NECK<br>& BACK  | DEAD   |                                      |                          |
| 2008 | 10    | 7   | 10/7/2008  | CALIFORNIA SEA LION | SHOOTING                               | MARIN         | CA    | SI   | LIVE STRANDING; MORTALITY (ANIMAL DIED<br>ON BEACH, SHOTGUN-LIKE WOUND TO BACK)   | DEAD   | P9                                   |                          |
| 2008 | 10    | 16  | 10/16/2008 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2008 | 10    | 23  | 10/23/2008 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT          | MONTEREY      | CA    | SI   | LIVE STRANDING; PACKING STRAP AROUND<br>NECK; NON-FATAL INJURY (ANIMAL TAKEN<br>INTO REHAB, DISENTANGLED, TREATED &<br>RELEASED)  | NSI  | P7B                                  |                          |
| 2008 | 10    | 25  | 10/25/2008 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                    | SANTA CRUZ    | CA    | SI   | LIVE STRANDING; FISH HOOK IN MOUTH;<br>MORTALITY (ANIMAL EUTHANIZED IN REHAB<br>DUE TO BLINDNESS; NECROPSY REVEALED<br>FISH HOOK WITH ATTACHED LINE EMBEDDED<br>IN TISSUE BEHIND ESOPHAGUS)   | DEAD   | P2                                   |                          |
| 2008 | 10    | 26  | 10/26/2008 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                    | LOS ANGELES   | CA    | SI   | LIVE STRANDING; FISH HOOK IN MOUTH;<br>MORTALITY (ANIMAL DIED IN REHAB;<br>NECROPSY REVEALED SUBCUTANEOUS<br>HEMORRHAGE & BRUISING IN TEMPORALIS<br>MUSCLE ON RIGHT SIDE OF SKULL; CAUSE OF<br>DEATH PROBABLY RELATED TO SKULL<br>TRAUMA OF UNKNOWN ORIGIN) | DEAD   | P5A                                  |                          |
| 2008 | 11    | 2   | 11/2/2008  | CALIFORNIA SEA LION | SHOOTING                               | SAN FRANCISCO | CA    | DEAD   | CARCASS; SHOTGUN WOUND TO HEAD  | DEAD   |                                      |                          |
| 2008 | 11    | 5   | 11/5/2008  | CALIFORNIA SEA LION | SHOOTING                               | ORANGE        | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO LEFT<br>EYE; MORTALITY (ANIMAL EUTHANIZED IN<br>REHAB DUE TO UROGENITAL CARCINOMA,<br>BULLET EXTRACTED FROM EYE DURING<br>NECROPSY)  | DEAD   | P9                                   |                          |
| 2008 | 11    | 6   | 11/6/2008  | CALIFORNIA SEA LION | SHOOTING/MARINE DEBRIS<br>ENTANGLEMENT | SAN DIEGO     | CA    | SI   | LIVE STRANDING; FISHING LINE WRAPPED<br>AROUND NMFS TAG; GUNSHOT WOUNDS TO<br>HEAD & NECK; NON-FATAL INJURY (ANIMAL<br>TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P9                                   |                          |
| 2008 | 11    | 7   | 11/7/2008  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET<br>FISHERY  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species             | Interaction Type                           | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|--|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2008 | 11    | 7   | 11/7/2008  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY         | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 11    | 8   | 11/8/2008  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY         | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 11    | 8   | 11/8/2008  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY         | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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                                   |                          |
| 2008 | 11    | 11  | 11/11/2008 | CALIFORNIA SEA LION | SHOOTING                                   | LINCOLN       | OR    | DEAD   | SHOTGUN PELLETS COLLECTED  | DEAD   |                                      |                          |
| 2008 | 11    | 23  | 11/23/2008 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY         | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2008 | 11    | 25  | 11/25/2008 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY         | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 1     | 8   | 1/8/2009   | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2009 | 1     | 18  | 1/18/2009  | CALIFORNIA SEA LION | GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT | SANTA BARBARA | CA    | SI   | LIVE STRANDING; OLD ENTANGLEMENT WOUND ON NECK, NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)   | NSI  | P9                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type    | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---------------------|--------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 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                                   |                          |
| 2009 | 1     | 26  | 1/26/2009 | CALIFORNIA SEA LION | SHOOTING            | SAN LUIS<br>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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 2009 | 2     | 6   | 2/6/2009  | CALIFORNIA SEA LION | SHOOTING            | SAN DIEGO          | CA    | SI   | LIVE STRANDING; 2 GUNSHOT WOUNDS TO BACK OF HEAD; MORTALITY (ANIMAL DIED IN REHAB; SMALL BULLET FRAGMENT REMOVED DURING NECROPSY; NECROPSY REVEALED HEMOTHORAX, PULMONARY HEMORRHAGE & SIMPLE TRAUMATIC RIB FRACTURE)  | DEAD   | P9                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type               | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--------------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2009 | 2     | 20  | 2/20/2009 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT  | VENTURA       | CA    | SI   | LIVE STRANDING; FAN BELT AROUND<br>HEAD/NECK AREA; NON-FATAL INJURY<br>(ANIMAL RELEASED FROM REHAB)  | NSI  | P7B                                  |                          |
| 2009 | 2     | 20  | 2/20/2009 | CALIFORNIA SEA LION | SHOOTING                       | SAN DIEGO     | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>HINDFLIPPER; MORTALITY (ANIMAL<br>EUTHANIZED IN REHAB DUE TO GUNSHOT; .22<br>CALIBER BULLET REMOVED FROM LEFT OF<br>TIBIA MEDIAL CONDYLE)  | DEAD   | P9                                   |                          |
| 2009 | 2     | 23  | 2/23/2009 | CALIFORNIA SEA LION | BAIT BARGE NET<br>ENTANGLEMENT | SAN DIEGO     | CA    | DEAD   | DEAD ANIMAL DISCOVERED INSIDE U.S. NAVY<br>MARINE MAMMAL PROGRAM BAIT PEN  | DEAD   |                                      |                          |
| 2009 | 2     | 28  | 2/28/2009 | CALIFORNIA SEA LION | GILLNET FISHERY                | ORANGE        | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>AROUND NECK; MORTALITY (ANIMAL DIED IN<br>REHAB; CAUSE OF DEATH = UNKNOWN)   | DEAD   | P8A                                  |                          |
| 2009 | 3     | 1   | 3/1/2009  | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | LOS ANGELES   | CA    | NSI  | LIVE STRANDING; FISH HOOK IN LOWER<br>RIGHT JAW; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)  | NSI  | P5C                                  |                          |
| 2009 | 3     | 3   | 3/3/2009  | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | ORANGE        | CA    | NSI  | LIVE STRANDING; FISH HOOKS IN FRONT &<br>REAR FLIPPERS; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)   | NSI  | P5C                                  |                          |
| 2009 | 3     | 14  | 3/14/2009 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT  | MONTEREY      | CA    | SI   | LIVE STRANDING; PACKING STRAP AROUND<br>NECK; NON-FATAL INJURY (ANIMAL<br>DISENTANGLED & RELEASED ON SITE)   | NSI  | P7B                                  |                          |
| 2009 | 3     | 14  | 3/14/2009 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT  | MONTEREY      | CA    | SI   | LIVE STRANDING; HARD PLASTIC GASKET<br>AROUND NECK; NON-FATAL INJURY (ANIMAL<br>DISENTANGLED & RELEASED ON SITE)   | NSI  | P7B                                  |                          |
| 2009 | 3     | 18  | 3/18/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | KING          | WA    | SI   | SEA LION HAULED OUT ON BUOY WITH<br>MONOFILAMENT FISHING LINE AROUND NECK  | SI   | P8A                                  |                          |
| 2009 | 3     | 19  | 3/19/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | SAN DIEGO     | CA    | NSI  | LIVE STRANDING; FISH HOOK IN LEFT<br>FLIPPER; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)   | NSI  | P5C                                  |                          |
| 2009 | 3     | 22  | 3/22/2009 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT  | MONTEREY      | CA    | SI   | LIVE STRANDING; BLACK RUBBER BELT (FAN<br>BELT?) AROUND LOWER NECK, CUTTING INTO<br>SHOULDERS, WOUND BLEEDING ; MORTALITY<br>(ANIMAL EUTHANIZED IN REHAB)  | DEAD   | P8A                                  |                          |
| 2009 | 3     | 26  | 3/26/2009 | CALIFORNIA SEA LION | GILLNET FISHERY                | LOS ANGELES   | CA    | SI   | LIVE STRANDING; OLD GILLNET WOUND<br>AROUND NECK, TISSUE NECROTIC &<br>INFECTED, NO GEAR ON ANIMAL; MORTALITY<br>(ANIMAL DIED IN REHAB)  | DEAD   | P1                                   |                          |
| 2009 | 4     | 1   | 4/1/2009  | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | ORANGE        | CA    | NSI  | LIVE STRANDING; FISH HOOK IN FRONT<br>FLIPPER; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)  | NSI  | P5C                                  |                          |
| 2009 | 4     | 12  | 4/12/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2009 | 4     | 13  | 4/13/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | SAN DIEGO     | CA    | SI   | LIVE STRANDING; ANIMAL RETRIEVED FROM<br>INSIDE BAIT HOLDING TANK; FISH HOOK IN<br>MOUTH; PERENNIAL STRANDER INTERACTING<br>WITH HOOK & LINE FISHERY, ALSO STRANDED<br>IN 2007 & 2008; NON-FATAL INJURY (ANIMAL<br>PERMANENTLY TRANSFERRED FROM REHAB<br>TO U.S. NAVY MARINE MAMMAL PROGRAM) | CAPTIVITY  | P5C                                  |                          |
| 2009 | 4     | 18  | 4/18/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | LOS ANGELES   | CA    | NSI  | LIVE STRANDING; FISH HOOK WITH<br>ATTACHED LINE IN FLIPPER; MORTALITY<br>(ANIMAL EUTHANIZED IN REHAB DUE TO<br>SEVERE HYPOGLYCEMIA)  | DEAD   | P9                                   |                          |
| 2009 | 4     | 19  | 4/19/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2009 | 4     | 24  | 4/24/2009 | CALIFORNIA SEA LION | GILLNET FISHERY                | LOS ANGELES   | CA    | SI   | OLD GILLNET SCAR AROUND NECK, NO GEAR<br>ON ANIMAL; MORTALITY (ANIMAL EUTHANIZED<br>IN REHAB DUE TO BLINDNESS &<br>DETERIORATING BODY CONDITION)   | DEAD   | P1                                   |                          |
| 2009 | 4     | 25  | 4/25/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2009 | 4     | 26  | 4/26/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY            | SAN DIEGO     | CA    | SI   | LIVE STRANDING; ANIMAL WRAPPED IN<br>FISHING LINE WITH MULTIPLE FISH HOOKS IN<br>BACK & MOUTH; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)  | NSI  | P5C                                  |                          |
| 2009 | 4     | 30  | 4/30/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2009 | 4     | 30  | 4/30/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2009 | 5     | 1   | 5/1/2009  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT        | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type           | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|----------------------------|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 5     | 9   | 5/9/2009  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 5     | 13  | 5/13/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 5     | 17  | 5/17/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                   |                          |
| 2009 | 5     | 19  | 5/19/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |

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|------|-------|-----|-----------|---------------------|----------------------------|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2009 | 5     | 23  | 5/23/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 5     | 27  | 5/27/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 5     | 28  | 5/28/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 5     | 30  | 5/30/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |

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|------|-------|-----|-----------|---------------------|-------------------------|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2009 | 6     | 12  | 6/12/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |

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| Year | Month | Day | Date      | Species             | Interaction Type                           | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2009 | 6     | 19  | 6/19/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 6     | 20  | 6/20/2009 | CALIFORNIA SEA LION | SHOOTING/SPEARING                          | SAN DIEGO       | CA    | DEAD   | DEAD STRANDING; 3 CENTIMETER DIAMETER HOLE IN VENTRAL THORAX EXTENDING 7 CENTIMETERS, PENETRATING LUNG; HEMMORRHAGE IN MUSCLE SURROUNDING WOUND; CARCASS EXAMINED BY SWFSC PERSONNEL | DEAD   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 6     | 21  | 6/21/2009 | CALIFORNIA SEA LION | GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT | SANTA BARBARA   | CA    | NSI  | LIVE STRANDING; OLD ENTANGLEMENT WOUND ON NECK. NO GEAR ON ANIMAL; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)   | NSI  | P9                                   |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---------------------------------|--------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2009 | 6     | 27  | 6/27/2009 | CALIFORNIA SEA LION | BLUNT FORCE TRAUMA:<br>CLUBBING | 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 & MEDIALY & 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                                   |                          |
| 2009 | 6     | 27  | 6/27/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY             | SAN LUIS<br>OBISPO | CA    | SI   | LIVE STRANDING; BLUE FLASHER FISHING LURE IN MOUTH; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = MALNUTRITION & VERMINOUS PNEUMONIA)  | DEAD   | P2                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 2009 | 6     | 28  | 6/28/2009 | CALIFORNIA SEA LION | MARINE DEBRIS<br>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                                  |                          |
| 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                                  |                          |

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| Year | Month | Day | Date      | Species             | Interaction Type    | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---------------------|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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  | P6A                                  |                          |
| 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                                   |                          |
| 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                                   |                          |

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| Year | Month | Day | Date      | Species             | Interaction Type        | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|-------------------------|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type           | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|----------------------------|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 7     | 19  | 7/19/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT    | SAN DIEGO       | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                               | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 7     | 30  | 7/30/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY/MARINE DEBRIS ENTANGLEMENT | 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

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

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|------|-------|-----|-----------|---------------------|---|--------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2009 | 8     | 15  | 8/15/2009 | CALIFORNIA SEA LION | GILLNET FISHERY/MARINE<br>DEBRIS ENTANGLEMENT | MONTEREY           | CA    | NSI  | LIVE STRANDING; OLD ENTANGLEMENT SCAR<br>ON NECK, NO GEAR ON ANIMAL; NON-FATAL<br>INJURY (ANIMAL RELEASED ON SITE)   | NSI  | P7B                                  |                          |
| 2009 | 8     | 15  | 8/15/2009 | CALIFORNIA SEA LION | GILLNET FISHERY                               | MONTEREY           | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>AROUND NECK; NON-FATAL INJURY (ANIMAL<br>DISENTANGLED & RELEASED ON SITE)  | NSI  | P7B                                  |                          |
| 2009 | 8     | 15  | 8/15/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                           | MONTEREY           | CA    | SI   | LIVE STRANDING; FISH HOOK WITH<br>ATTACHED LINE IN LEFT EYEBROW, ANOTHER<br>FISH HOOK IN BODY; NON-FATAL INJURY<br>(FISHING GEAR REMOVED & ANIMAL<br>RELEASED ON SITE)                                   | NSI  | P5C                                  |                          |
| 2009 | 8     | 16  | 8/16/2009 | CALIFORNIA SEA LION | SHOOTING                                      | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; MORTALITY (ANIMAL DIED IN<br>REHAB; NECROPSY REVEALED BIRD SHOT IN<br>THORAX AREA; CAUSE OF DEATH =<br>MALNUTRITION & INFECTION FROM LEFT<br>FRONT FLIPPER ABSCESS)                      | DEAD   | P9                                   |                          |
| 2009 | 8     | 18  | 8/18/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                           | SAN MATEO          | CA    | SI   | LIVE STRANDING; FISHING LINE COMING<br>FROM MOUTH; MORTALITY (ANIMAL DIED IN<br>REHAB; NECROPSY REVEALED FISH HOOK IN<br>STOMACH; CAUSE OF DEATH = UNKNOWN)  | DEAD   | P2                                   |                          |
| 2009 | 8     | 19  | 8/19/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                           | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; FISH HOOK WITH<br>ATTACHED LINE IN RIGHT LOWER LIP;<br>MORTALITY (ANIMAL DIED IN REHAB; CAUSE<br>OF DEATH = MALNUTRITION & VERMINOUS<br>PNEUMONIA)                                       | DEAD   | P5B                                  |                          |
| 2009 | 8     | 22  | 8/22/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                           | MARIN              | CA    | SI   | LIVE STRANDING; TREBLE HOOK WITH LINE<br>ATTACHED IN MOUTH, FISHING LINE<br>WRAPPED AROUND REAR FLIPPERS; NON-<br>FATAL INJURY (ANIMAL RELEASED FROM<br>REHAB)   | NSI  | P5C                                  |                          |
| 2009 | 8     | 23  | 8/23/2009 | CALIFORNIA SEA LION | GILLNET FISHERY/MARINE<br>DEBRIS ENTANGLEMENT | SAN LUIS<br>OBISPO | CA    | NSI  | LIVE STRANDING; OLD HEALING<br>ENTANGLEMENT WOUND IN UPPER NECK<br>AREA, NO GEAR ON ANIMAL, BULGE ABOVE<br>WOUND; MORTALITY (ANIMAL DIED IN REHAB;<br>CAUSE OF DEATH = CARCINOMA)                        | DEAD   | P9                                   |                          |
| 2009 | 8     | 23  | 8/23/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                           | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; FISHING LINE COMING<br>FROM MOUTH; RADIOGRAPHS REVEALED<br>FISH HOOK IN STOMACH; NON-FATAL INJURY<br>(ANIMAL RELEASED FROM REHAB)  | SI   | P2                                   |                          |
| 2009 | 8     | 24  | 8/24/2009 | CALIFORNIA SEA LION | SHOOTING                                      | LOS ANGELES        | CA    | SI   | LIVE STRANDING; LEFT REAR LIMB<br>PARALYSIS; MORTALITY (ANIMAL EUTHANIZED<br>IN REHAB; RADIOGRAPHS REVEALED BULLET<br>ADJACENT TO SPINE)   | DEAD   | P9                                   |                          |
| 2009 | 8     | 25  | 8/25/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                       | SAN DIEGO          | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL  | DEAD   |                                      |                          |
| 2009 | 8     | 26  | 8/26/2009 | CALIFORNIA SEA LION | SHOOTING                                      | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; MORTALITY (ANIMAL<br>EUTHANIZED IN REHAB DUE TO LEFT FRONT<br>FLIPPER ABSCESS; NECROPSY REVEALED<br>PELLET IN LEFT SHOULDER)   | DEAD   | P9                                   |                          |
| 2009 | 8     | 30  | 8/30/2009 | CALIFORNIA SEA LION | SHOOTING                                      | SAN MATEO          | CA    | DEAD   | DEAD STRANDING; GUNSHOT WOUNDS TO<br>DORSAL HIND END & CHEST; BULLET HOLE IN<br>RIB; LARGE AMOUNT OF BLOOD INSIDE<br>THORACIC & ABDOMINAL CAVITIES; CARCASS<br>EXAMINED BY CAS PERSONNEL                 | DEAD   |                                      |                          |
| 2009 | 9     | 1   | 9/1/2009  | CALIFORNIA SEA LION | SHOOTING                                      | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; RADIOGRAPHS REVEALED<br>TWO PELLETS IN CHEST; MORTALITY (ANIMAL<br>DIED IN REHAB; CAUSE OF DEATH =<br>PERFORATED ULCER & PERITONITIS)  | DEAD   | P9                                   |                          |
| 2009 | 9     | 5   | 9/5/2009  | CALIFORNIA SEA LION | GILLNET FISHERY                               | SAN LUIS<br>OBISPO | CA    | SI   | LIVE STRANDING; BLUE GILLNET FRAGMENT<br>AROUND NECK; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)   | NSI  | P7B                                  |                          |
| 2009 | 9     | 7   | 9/7/2009  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                           | SAN MATEO          | CA    | NSI  | LIVE STRANDING; FISH HOOK IN RIGHT REAR<br>FLIPPER; MORTALITY (ANIMAL EUTHANIZED IN<br>REHAB DUE TO SHARK BITE WOUND TO<br>HINDQUARTERS)   | DEAD   | P9                                   |                          |
| 2009 | 9     | 8   | 9/8/2009  | CALIFORNIA SEA LION | SHOOTING                                      | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO<br>SPINE; MORTALITY (ANIMAL EUTHANIZED IN<br>REHAB DUE TO LOWER BODY PARALYSIS<br>RESULTING FROM GUNSHOT WOUND; SINGLE<br>BULLET FRAGMENT EXTRACTED DURING<br>NECROPSY) | DEAD   | P9                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species             | Interaction Type                | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|---------------------------------|--------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 2009 | 9     | 18  | 9/18/2009  | CALIFORNIA SEA LION | RESEARCH SCIENTIFIC<br>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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2009 | 9     | 22  | 9/22/2009  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT         | SAN DIEGO          | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2009 | 10    | 2   | 10/2/2009  | CALIFORNIA SEA LION | HOOK & LINE FISHERY             | SAN LUIS<br>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                                   |                          |
| 2009 | 10    | 4   | 10/4/2009  | CALIFORNIA SEA LION | SHOOTING                        | SAN LUIS<br>OBISPO | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO LEFT EYE. PELLETT EXTRACTED; MORTALITY (ANIMAL DIED IN REHAB; CAUSE OF DEATH = DOMOIC ACID TOXICITY)  | DEAD   | P9                                   |                          |
| 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                                   |                          |
| 2009 | 10    | 10  | 10/10/2009 | CALIFORNIA SEA LION | BLUNT FORCE TRAUMA:<br>CLUBBING | LOS ANGELES        | CA    | SI   | LIVE STRANDING; BILATERAL FRACTURE OF MANDIBLE; NECROTIC MANDIBLE BONE FRAGMENTS; MORTALITY (ANIMAL EUTHANIZED IN REHAB)   | DEAD   | P9                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |

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| Year | Month | Day | Date       | Species             | Interaction Type              | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|-------------------------------|--------------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 2009 | 10    | 19  | 10/19/2009 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT | MENDOCINO          | CA    | SI   | LIVE STRANDING; 3-4 LAYERS OF DUCT TAPE AROUND NECK; NON-FATAL INJURY (ANIMAL RELEASED FROM REHAB)  | NSI  | P7B                                  |                          |
| 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                                  |                          |
| 2009 | 10    | 20  | 10/20/2009 | CALIFORNIA SEA LION | SHOOTING                      | MASON              | WA    | DEAD   | BULLET IN HEAD  | DEAD   |                                      |                          |
| 2009 | 10    | 23  | 10/23/2009 | CALIFORNIA SEA LION | HOOK & LINE FISHERY           | SAN LUIS<br>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                                  |                          |
| 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                                   |                          |
| 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 SEZURES LINKED TO DOMOIC ACID TOXICITY)   | DEAD   | P8A                                  |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2009 | 10    | 31  | 10/31/2009 | CALIFORNIA SEA LION | SPRAY PAINTING                | SAN LUIS<br>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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |

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|------|-------|-----|------------|---------------------|---------------------------------------|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 2009 | 11    | 15  | 11/15/2009 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 11    | 23  | 11/23/2009 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                   |                          |
| 2009 | 12    | 4   | 12/4/2009  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2009 | 12    | 5   | 12/5/2009  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2009 | 12    | 6   | 12/6/2009  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 12    | 10  | 12/10/2009 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 1     | 4   | 1/4/2010   | CALIFORNIA SEA LION | SHOOTING                              | KING          | WA    | DEAD   | BULLET FRAGMENTS IN SKULL   | DEAD   |                                      |                          |
| 2010 | 1     | 6   | 1/6/2010   | CALIFORNIA SEA LION | SHOOTING                              | PIERCE        | WA    | DEAD   | BULLETS FOUND DURING NECROPSY   | DEAD   |                                      |                          |
| 2010 | 1     | 9   | 1/9/2010   | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | SAN DIEGO     | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 1     | 12  | 1/12/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT               | SAN DIEGO     | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 1     | 24  | 1/24/2010  | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY ENTANGLEMENT | MONTEREY      | CA    | SI   | ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED   | NSI  | P7B                                  |                          |
| 2010 | 1     | 27  | 1/27/2010  | CALIFORNIA SEA LION | SHOOTING                              | CLATSOP       | OR    | DEAD   | BULLET HOLE IN HEAD   | DEAD   |                                      |                          |
| 2010 | 2     | 7   | 2/7/2010   | CALIFORNIA SEA LION | SHOOTING                              | KING          | WA    | DEAD   | BULLET FOUND DURING NECROPSY  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 2     | 9   | 2/9/2010   | CALIFORNIA SEA LION | SHOOTING                              | KING          | WA    | DEAD   | BULLET FOUND IN BRAIN CAVITY  | DEAD   |                                      |                          |
| 2010 | 2     | 10  | 2/10/2010  | CALIFORNIA SEA LION | SHOOTING                              | KING          | WA    | DEAD   | BULLETS FOUND IN DORSAL MUSCLE  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 2     | 13  | 2/13/2010  | CALIFORNIA SEA LION | SHOOTING                              | KING          | WA    | DEAD   | BULLET FRAGMENTS FOUND IN MUSCLE  | DEAD   |                                      |                          |
| 2010 | 2     | 14  | 2/14/2010  | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY ENTANGLEMENT | LOS ANGELES   | CA    | SI   | GILLNET-LIKE LACERATIONS AROUND CIRCUMFERENCE OF ANIMAL, DIED IN REHAB  | DEAD   |                                      |                          |
| 2010 | 2     | 14  | 2/14/2010  | CALIFORNIA SEA LION | SHOOTING                              | KING          | WA    | DEAD   | BULLETS FOUND IN BRAIN  | DEAD   |                                      |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2010 | 2     | 18  | 2/18/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | SI   | ANIMAL DIED IN REHAB  | DEAD   |                                      |                          |
| 2010 | 2     | 22  | 2/22/2010 | CALIFORNIA SEA LION | SHOOTING   | PIERCE        | WA    | DEAD   | BULLETS CONFIRMED VIA RADIOGRAPH  | DEAD   |                                      |                          |
| 2010 | 2     | 23  | 2/23/2010 | CALIFORNIA SEA LION | SHOOTING   | PIERCE        | WA    | DEAD   | BULLET HOLE AND SHRAPNEL FOUND  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 3     | 12  | 3/12/2010 | CALIFORNIA SEA LION | SHOOTING   | PIERCE        | WA    | DEAD   | BULLET FRAGMENT IN BRAIN CAVITY   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 3     | 23  | 3/23/2010 | CALIFORNIA SEA LION | UNIDENTIFIED FISHERY INTERACTION                 | LOS ANGELES   | CA    | SI   | ANIMAL DIED IN REHAB  | DEAD   |                                      |                          |
| 2010 | 3     | 24  | 3/24/2010 | CALIFORNIA SEA LION | SHOOTING   | KING          | WA    | DEAD   | SHRAPNEL FOUND ON RADIOGRAPH  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 2010 | 3     | 25  | 3/25/2010 | CALIFORNIA SEA LION | SHOOTING   | MONTEREY      | CA    | SI   | BULLET TIP FOUND IN ABBCESS ON LEFT CHEEK. SMALL HOLE IN FOREHEAD. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED    | NSI  | P9                                   |                          |
| 2010 | 3     | 26  | 3/26/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 2010 | 3     | 30  | 3/30/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 3     | 30  | 3/30/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 3     | 31  | 3/31/2010 | CALIFORNIA SEA LION | CAR COLLISION                                    | SAN DIEGO     | CA    | SI   | EYE WITNESS ACCOUNT, ANIMAL EUTHANIZED IN REHAB   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 3     | 31  | 3/31/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 2010 | 4     | 1   | 4/1/2010  | CALIFORNIA SEA LION | SHOOTING   | SANTA CRUZ    | CA    | SI   | MULTIPLE PELLETS IN SKULL, LEFT EYE. ANIMAL EUTHANIZED IN REHAB   | DEAD   |                                      |                          |
| 2010 | 4     | 3   | 4/3/2010  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | NSI  | FISH HOOK. RIGHT REAR FLIPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED  | NSI  | P5C                                  |                          |
| 2010 | 4     | 3   | 4/3/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 2010 | 4     | 3   | 4/3/2010  | CALIFORNIA SEA LION | MARINE DEBRIS INGESTION                          | ORANGE        | CA    | SI   | VOMITED UP PLASTIC MATERIAL   | SI   | P2                                   |                          |
| 2010 | 4     | 7   | 4/7/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 8   | 4/8/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 8   | 4/8/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 8   | 4/8/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 9   | 4/9/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 9   | 4/9/2010  | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY                         | LOS ANGELES   | CA    | DEAD   | ENTANGLEMENT WOUNDS AROUND CIRCUMFERENCE OF ANIMAL  | DEAD   |                                      |                          |
| 2010 | 4     | 9   | 4/9/2010  | CALIFORNIA SEA LION | ENTANGLEMENT                                     | LOS ANGELES   | CA    | DEAD   | FRESH DEAD, ENTERED SCREEN BAY  | DEAD   |                                      |                          |
| 2010 | 4     | 9   | 4/9/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | LOS ANGELES   | CA    | DEAD   | FISH HOOKS IN LOWER LIP AND LEFT FRONT FLIPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED                       | NSI  | P5C                                  |                          |
| 2010 | 4     | 10  | 4/10/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | SI   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 2010 | 4     | 12  | 4/12/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | FISH HOOK IN RIGHT FRONT FLIPPER. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED                                     | NSI  | P5C                                  |                          |
| 2010 | 4     | 13  | 4/13/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | NSI  |   | NSI  | P5C                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                    | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---|--------------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2010 | 4     | 21  | 4/21/2010 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | SAN DIEGO          | CA    | SI   | PLASTIC PACKAGING STRAP, ANIMAL DIED IN REHAB   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 4     | 23  | 4/23/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 4     | 25  | 4/25/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 25  | 4/25/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 25  | 4/25/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 26  | 4/26/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 26  | 4/26/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 4     | 26  | 4/26/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | MONTEREY           | CA    | SI   | ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED   | NSI  | P7B                                  |                          |
| 2010 | 4     | 28  | 4/28/2010 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | LOS ANGELES        | CA    | SI   | ANIMAL DIED DURING TRANSPORTATION TO REHAB  | DEAD   |                                      |                          |
| 2010 | 5     | 2   | 5/2/2010  | CALIFORNIA SEA LION | SHOOTING  | PACIFIC            | WA    | DEAD   | OBVIOUS BULLET HOLE IN ABDOMENT   | DEAD   |                                      |                          |
| 2010 | 5     | 4   | 5/4/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT<br>MARINE DEBRIS            | SAN DIEGO          | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 2010 | 5     | 5   | 5/5/2010  | CALIFORNIA SEA LION | ENTANGLEMENT  | MONTEREY           | CA    | SI   | LINE WRAPPED AROUND NECK.   | SI   | P8A                                  |                          |
| 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                                   |                          |
| 2010 | 5     | 6   | 5/6/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO          | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 5     | 6   | 5/6/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO          | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 2010 | 5     | 6   | 5/6/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO          | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM   | DEAD   |                                      |                          |
| 2010 | 5     | 8   | 5/8/2010  | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | MONTEREY           | CA    | SI   | FISHING LINE AROUND NECK AND LACERATIONS FROM ENTANGLEMENT. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED | NSI  | P7B                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2010 | 5     | 10  | 5/10/2010 | CALIFORNIA SEA LION | SHOOTING  | MONTEREY           | CA    | SI   | BULLET FRAGMENT IN CHEST. ANIMAL DIED IN REHAB  | DEAD   |                                      |                          |
| 2010 | 5     | 11  | 5/11/2010 | CALIFORNIA SEA LION | SHOOTING  | SAN LUIS<br>OBISPO | CA    | SI   | BULLET LODGED IN VERTEBRAL COLUMN. ANIMAL EUTHANIZED IN REHAB   | DEAD   |                                      |                          |
| 2010 | 5     | 11  | 5/11/2010 | CALIFORNIA SEA LION | DOG ATTACK  | SANTA BARBARA      | CA    | DEAD   | NO DETAILS  | DEAD   |                                      |                          |
| 2010 | 5     | 12  | 5/12/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | MONTEREY           | CA    | SI   | ANIMAL DISENTANGLED, RELOCATED  | NSI  | P7B                                  |                          |
| 2010 | 5     | 12  | 5/12/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | MONTEREY           | CA    | SI   | ANIMAL DISENTANGLED, RELOCATED  | NSI  | P7B                                  |                          |
| 2010 | 5     | 14  | 5/14/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | LOS ANGELES        | CA    | DEAD   | FRESH DEAD  | DEAD   |                                      |                          |
| 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                                  |                          |

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| Year | Month | Day | Date      | Species             | Interaction Type                                    | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---|--------------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2010 | 5     | 14  | 5/14/2010 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | SAN MATEO          | CA    | SI   | THICK BLACK RUBBER BAND AROUND NECK.<br>ANIMAL DIED IN REHAB  | DEAD   |                                      |                          |
| 2010 | 5     | 14  | 5/14/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | ORANGE             | CA    | SI   | FISHING LINE AROUND NECK RESULTING IN<br>DEEP LACERATION. ANIMAL TAKEN INTO<br>REHAB, TREATED AND RELEASED  | NSI  | P7B                                  |                          |
| 2010 | 5     | 15  | 5/15/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | MONTEREY           | CA    | SI   | GREEN MONOFILAMENT NETTING WRAPPED<br>AROUND NECK 2X AND THROUGH MOUTH.<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED   | NSI  | P7B                                  |                          |
| 2010 | 5     | 15  | 5/15/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SAN LUIS<br>OBISPO | CA    | SI   | FISHING LINE AROUND NECK, CUTTING INTO<br>TISSUE. ANIMAL TAKEN INTO REHAB,<br>TREATED AND RELEASED  | NSI  | P7B                                  |                          |
| 2010 | 5     | 15  | 5/15/2010 | CALIFORNIA SEA LION | UNIDENTIFIED FISHERY<br>INTERACTION                 | MONTEREY           | CA    | SI   | GREEN MONOFILAMENT CUTTING INTO NECK.<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED   | NSI  | P7B                                  |                          |
| 2010 | 5     | 18  | 5/18/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | ORANGE             | CA    | SI   | 8 FISHHOOKS ON BODY AND FLIPPERS.<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED   | NSI  | P5C                                  |                          |
| 2010 | 5     | 20  | 5/20/2010 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | LINCOLN            | OR    | SI   | PLASTIC PACKING BAND HAD BEEN CUTTING<br>INTO NECK; ANIMAL WAS HERDED WITH<br>CROWDER BOARDS AND DISENTANGLED<br>WITH KNIFE AT END OF POLE; BRIEFLY WENT<br>TO WATER THEN RETURNED TO BEACH; WAS<br>VERY THIN; REMAINED ON BEACH REST OF<br>DAY | SI   | P1                                   |                          |
| 2010 | 5     | 21  | 5/21/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | SAN MATEO          | CA    | SI   | MONOFILAMENT NET/LINE EMBEDDED IN<br>NECK. ANIMAL DIED IN REHAB   | DEAD   |                                      |                          |
| 2010 | 5     | 25  | 5/25/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | SANTA CRUZ         | CA    | SI   | MONOFILAMENT NET/LINE AROUND NECK.<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED  | NSI  | P7B                                  |                          |
| 2010 | 5     | 26  | 5/26/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SANTA CRUZ         | CA    | SI   | FISH HOOK IN MOUTH. 3 FISH HOOKS IN<br>ESOPHAGUS. ANIMAL DIED IN REHAB  | DEAD   |                                      |                          |
| 2010 | 5     | 29  | 5/29/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 5     | 29  | 5/29/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM<br>FISH HOOKS IN FRONT AND REAR FLIPPERS.<br>LURE AND WEIGHT HANGING FROM MOUTH.<br>ANIMAL DIED IN REHAB   | DEAD   |                                      |                          |
| 2010 | 5     | 30  | 5/30/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SANTA CRUZ         | CA    | SI   | FISH HOOK IN TONGUE WITH LINE ATTACHED,<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED   | NSI  | P5C                                  |                          |
| 2010 | 5     | 31  | 5/31/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | ORANGE             | CA    | SI   | FISHING LINE, HOOK, AND WEIGHT IN MOUTH.<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED  | NSI  | P5C                                  |                          |
| 2010 | 5     | 31  | 5/31/2010 | CALIFORNIA SEA LION | SHOOTING  | TILLAMOOK          | OR    | DEAD   | BUCKSHOT PELLETS RECOVERED  | DEAD   |                                      |                          |
| 2010 | 6     | 2   | 6/2/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 6     | 2   | 6/2/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 6     | 2   | 6/2/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 6     | 2   | 6/2/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 6     | 4   | 6/4/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 6     | 5   | 6/5/2010  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 6     | 6   | 6/6/2010  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SANTA CRUZ         | CA    | SI   | HOOKS AND LINE WRAPPED AROUND REAR<br>FLIPPERS. ANIMAL DISENTANGLED,<br>RELEASED AT SITE  | NSI  | P5C                                  |                          |
| 2010 | 6     | 8   | 6/8/2010  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | ORANGE             | CA    | SI   | FISH HOOK IN RIGHT SIDE OF MOUTH.<br>ANIMAL TAKEN INTO REHAB, TREATED AND<br>RELEASED   | NSI  | P5C                                  |                          |
| 2010 | 6     | 8   | 6/8/2010  | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | SAN DIEGO          | CA    | DEAD   | ROPE AROUND NECK  | DEAD   |                                      |                          |
| 2010 | 6     | 9   | 6/9/2010  | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT            | MONTEREY           | CA    | SI   | GREEN NET ENTANGLED AROUND NECK AND<br>HEAD. ANIMAL TAKEN INTO REHAB, TREATED<br>AND RELEASED   | NSI  | P7B                                  |                          |
| 2010 | 6     | 9   | 6/9/2010  | CALIFORNIA SEA LION | SHOOTING  | CLATSOP            | OR    | DEAD   | BULLET FRAGMENT COLLECTED, SKULL<br>BLOWN AWAY  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type  | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2010 | 6     | 10  | 6/10/2010 | CALIFORNIA SEA LION | STAB WOUNDS   | LOS ANGELES   | CA    | SI   | ANIMAL EUTHANIZED IN REHAB. KNIFE LACERATION.  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 6     | 11  | 6/11/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                   | SAN DIEGO     | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM  | DEAD   |                                      |                          |
| 2010 | 6     | 11  | 6/11/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                   | SAN DIEGO     | CA    | DEAD   | ANIMAL DISCOVERED IN STATION COOLING WATER SYSTEM  | DEAD   |                                      |                          |
| 2010 | 6     | 12  | 6/12/2010 | CALIFORNIA SEA LION | SHOOTING  | SAN DIEGO     | CA    | SI   | XRAY. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED  | SI   | P9                                   |                          |
| 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                                  |                          |
| 2010 | 6     | 12  | 6/12/2010 | CALIFORNIA SEA LION | SHOOTING  | CLATSOP       | OR    | DEAD   | HOLE IN ANIMAL. ASSOCIATED HEMORRHAGING  | DEAD   |                                      |                          |
| 2010 | 6     | 13  | 6/13/2010 | CALIFORNIA SEA LION | UNIDENTIFIED FISHERY INTERACTION                          | SAN DIEGO     | CA    | SI   | RELEASED AT SITE   | SI   | P8A                                  |                          |
| 2010 | 6     | 14  | 6/14/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                       | LOS ANGELES   | CA    | SI   | FISHING LINE, ANIMAL DIED IN REHAB   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 6     | 15  | 6/15/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                       | MONTEREY      | CA    | SI   | ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED  | NSI  | P9                                   |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2010 | 6     | 24  | 6/24/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                       | LINCOLN       | OR    | SI   | LARGE SALMON FLASHER REPORTEDLY HANGING FROM MOUTH   | SI   | P2                                   |                          |
| 2010 | 6     | 25  | 6/25/2010 | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                       | LOS ANGELES   | CA    | SI   | FISH HOOKS. ANIMAL DIED IN REHAB   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 2010 | 7     | 3   | 7/3/2010  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                       | CLATSOP       | OR    | SI   | FISHING LURE ATTACHED TO HEAD, THROAT  | SI   | P5B                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2010 | 7     | 16  | 7/16/2010 | CALIFORNIA SEA LION | VESSEL STRIKE   | MONTEREY      | CA    | DEAD   | EYE WITNESSES SAW BOAT HIT SEA LION  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 7     | 21  | 7/21/2010 | CALIFORNIA SEA LION | BLUNT FORCE TRAUMA: CLUBBING                              | LOS ANGELES   | CA    | SI   | ANIMAL EUTHANIZED IN REHAB   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 8     | 20  | 8/20/2010 | CALIFORNIA SEA LION | SHOOTING  | SONOMA        | CA    | DEAD   | SHOT FOUND AT BASE OF SKULL  | DEAD   |                                      |                          |
| 2010 | 8     | 20  | 8/20/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                   | SAN DIEGO     | CA    | SI   | ENTRAINMENT INTO POWER GENERATING STATION  | DEAD   |                                      |                          |
| 2010 | 8     | 25  | 8/25/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                                   | LOS ANGELES   | CA    | SI   | ENTRAINMENT INTO POWER GENERATING STATION  | DEAD   |                                      |                          |
| 2010 | 8     | 30  | 8/30/2010 | CALIFORNIA SEA LION | SHOOTING  | SAN DIEGO     | CA    | SI   | ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED  | NSI  | P9                                   |                          |
| 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                                   |                          |
| 2010 | 9     | 15  | 9/15/2010 | CALIFORNIA SEA LION | SHOOTING  | SAN MATEO     | CA    | SI   | ANIMAL EUTHANIZED IN REHAB   | DEAD   |                                      |                          |
| 2010 | 9     | 15  | 9/15/2010 | CALIFORNIA SEA LION | HARASSMENT  | SAN FRANCISCO | CA    | SI   | -8" DART EMBEDDED IN FOREHEAD, NOT CAPTURED  | SI   | P9                                   |                          |
| 2010 | 9     | 18  | 9/18/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY OFFSHORE | CA            | DEAD  | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species             | Interaction Type                                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2010 | 9     | 20  | 9/20/2010  | CALIFORNIA SEA LION | SHOOTING   | PACIFIC       | WA    | DEAD   | BULLET HOLE IN NECK   | DEAD   |                                      |                          |
| 2010 | 9     | 26  | 9/26/2010  | CALIFORNIA SEA LION | SHOOTING   | SAN DIEGO     | CA    | SI   | ANIMAL EUTHANIZED IN REHAB  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                   |                          |
| 2010 | 10    | 5   | 10/5/2010  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | ENTRAINMENT INTO POWER GENERATING STATION   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 2010 | 10    | 11  | 10/11/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 10    | 11  | 10/11/2010 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 10    | 12  | 10/12/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY ENTANGLEMENT            | LOS ANGELES   | CA    | SI   | GILLNET PRESENT AROUND NECK AND MISCELLANEOUS MONOFILAMENT PRESENT  | DEAD   |                                      |                          |
| 2010 | 10    | 12  | 10/12/2010 | CALIFORNIA SEA LION | SHOOTING   | CLATSOP       | OR    | DEAD   | ANIMAL DIED IN REHAB.   | DEAD   |                                      |                          |
| 2010 | 10    | 14  | 10/14/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | NSI  | SMALL BULLET HOLES IN ABDOMEN   | DEAD   |                                      |                          |
| 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                                   |                          |
| 2010 | 10    | 26  | 10/26/2010 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                          | LOS ANGELES   | CA    | DEAD   | ENTERED SCREEN BAY THROUGH INTAKE TUNNEL  | DEAD   |                                      |                          |
| 2010 | 11    | 3   | 11/3/2010  | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY ENTANGLEMENT            | MONTEREY      | CA    | SI   | GREEN MONOFILAMENT NETTING AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.  | NSI  | P7B                                  |                          |
| 2010 | 11    | 5   | 11/5/2010  | CALIFORNIA SEA LION | SHOOTING   | TILLAMOOK     | OR    | DEAD   | BULLET WOUNDS   | DEAD   |                                      |                          |
| 2010 | 11    | 6   | 11/6/2010  | CALIFORNIA SEA LION | SHOOTING   | CLATSOP       | OR    | DEAD   | BULLET WOUNDS   | DEAD   |                                      |                          |
| 2010 | 11    | 11  | 11/11/2010 | CALIFORNIA SEA LION | SHOOTING   | PACIFIC       | WA    | DEAD   | BULLET WOUNDS   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 11    | 23  | 11/23/2010 | CALIFORNIA SEA LION | SHOOTING   | CLATSOP       | OR    | DEAD   | BULLET WOUNDS   | DEAD   |                                      |                          |
| 2010 | 11    | 24  | 11/24/2010 | CALIFORNIA SEA LION | UNIDENTIFIED NET FISHERY ENTANGLEMENT            | VENTURA       | CA    | SI   | GREEN MONOFILAMENT NETTING AROUND NECK. ANIMAL TAKEN INTO REHAB, TREATED AND RELEASED.  | NSI  | P7B                                  |                          |
| 2010 | 11    | 24  | 11/24/2010 | CALIFORNIA SEA LION | UNIDENTIFIED FISHERY INTERACTION                 | LOS ANGELES   | CA    | SI   | SEVERE ENTANGLEMENT INJURY AROUND NECK; EVIDENCE OF OLD (HEALED) ENTANGLEMENT INJURY CAUSING SKULL DEFORMATION. ANIMAL DIED IN REHAB.   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |

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| Year | Month | Day | Date       | Species             | Interaction Type                                    | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|---|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2010 | 12    | 29  | 12/29/2010 | CALIFORNIA SEA LION | UNIDENTIFIED FISHERY<br>INTERACTION                 | LOS ANGELES   | CA    | SI   | MONOFILAMENT LINE AROUND NECK. ANIMAL<br>DIED IN REHAB  | DEAD   |                                      |                          |
| 2011 | 2     | 24  | 2/24/2011  | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | LINCOLN       | OR    | SI   | HAD WHAT LOOKED LIKE A PLASTIC BAND<br>WRAPPED TIGHTLY AROUND NECK AND<br>CUTTING DEEPLY INTO TISSUE; ANIMAL MAY<br>HAVE BEEN SHOWING DIFFICULTY<br>BREATHING; ANIMAL WENT BACK INTO<br>WATER AFTER BEING APPROACHED CLOSELY<br>BY PASSERS-BY | SI   | P8A                                  |                          |
| 2011 | 2     | 25  | 2/25/2011  | CALIFORNIA SEA LION | SEAL BOMB   | LOS ANGELES   | CA    | SI   | DISLOCATED LOWER JAW. ANIMAL TAKEN<br>INTO REHABILITATION. FINAL STATUS<br>UNKNOWN  | SI   |                                      | P9                       |
| 2011 | 2     | 28  | 2/28/2011  | CALIFORNIA SEA LION | GILLNET FISHERY<br>UNIDENTIFIED NET FISHERY         | SAN DIEGO     | CA    | SI   | MONOFILAMENT GILLNET AROUND NECK,<br>CONSTRICTING. ANIMAL LETHARGIC.<br>TRANSFERRED TO REHABILITATION. FINAL<br>STATUS UNKNOWN.   | SI   |                                      | P8A                      |
| 2011 | 3     | 12  | 3/12/2011  | CALIFORNIA SEA LION | ENTANGLEMENT  | SANTA BARBARA | CA    | SI   | YELLOW 'POLY' FISHING NET AROUND NECK   | SI   |                                      | P8A                      |
| 2011 | 3     | 13  | 3/13/2011  | CALIFORNIA SEA LION | GILLNET FISHERY                                     | MONTEREY      | CA    | SI   | MONOFILAMENT NETTING AROUND NECK  | SI   |                                      | P8A                      |
| 2011 | 3     | 13  | 3/13/2011  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | MONTEREY      | CA    | SI   | FISHING LINE AROUND NECK  | SI   |                                      | P8A                      |
| 2011 | 3     | 17  | 3/17/2011  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2011 | 3     | 21  | 3/21/2011  | CALIFORNIA SEA LION | GILLNET FISHERY                                     | LOS ANGELES   | CA    | SI   | GILLNET EMBEDDED IN NECK, TRANSFERRED<br>TO REHABILITATION CENTER   | SI   |                                      | P8A                      |
| 2011 | 4     | 3   | 4/3/2011   | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | ORANGE        | CA    | SI   | UNDERWEIGHT ANIMAL WITH HOOK IN<br>NOSTRIL. ANIMAL TAKEN INTO<br>REHABILITATION FACILITY  | SI   |                                      | P5B                      |
| 2011 | 4     | 10  | 4/10/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | NSI  | ANIMAL RELEASED FROM COOLING WATER<br>SYSTEM  | NSI  |                                      | P9                       |
| 2011 | 4     | 12  | 4/12/2011  | CALIFORNIA SEA LION | SHOOTING  | PIERCE        | WA    | DEAD   | BULLET WOUNDS   | DEAD   |                                      |                          |
| 2011 | 4     | 16  | 4/16/2011  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | SANTA BARBARA | CA    | SI   | HUGE LURE IN MOUTH, BROKEN JAW.   | SI   |                                      | P5A, P10                 |
| 2011 | 4     | 17  | 4/17/2011  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | LOS ANGELES   | CA    | SI   | THIN ANIMAL. FISHING LINE REMOVED FROM<br>NECK  | SI   |                                      | P8A                      |
| 2011 | 4     | 18  | 4/18/2011  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | LOS ANGELES   | CA    | SI   | THIN ANIMAL. FISH HOOKS EMBEDDED UNDER<br>LEFT EYE, RIGHT LIP, LEFT AND RIGHT<br>FLIPPERS; GUMBALL ABSCESS LOWER LEFT<br>MUZZLE   | SI   |                                      | P5B                      |
| 2011 | 4     | 18  | 4/18/2011  | CALIFORNIA SEA LION | GILLNET FISHERY                                     | SANTA BARBARA | CA    | SI   | GILLNET, ANIMAL TAKEN INTO REHAB, FINAL<br>STATUS UNKNOWN   | SI   |                                      | P8A                      |
| 2011 | 4     | 20  | 4/20/2011  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2011 | 4     | 21  | 4/21/2011  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2011 | 4     | 21  | 4/21/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | SAN ONOFRE  | DEAD   |                                      |                          |
| 2011 | 4     | 21  | 4/21/2011  | CALIFORNIA SEA LION | VESSEL STRIKE                                       | MONTEREY      | CA    | DEAD   | HIT BY CAR  | DEAD   |                                      |                          |
| 2011 | 4     | 24  | 4/24/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE<br>CHANNEL   | DEAD   |                                      |                          |
| 2011 | 5     | 1   | 5/1/2011   | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | CARCASS FROM COOLING WATER SYSTEM OF<br>POWER PLANT   | DEAD   |                                      |                          |
| 2011 | 5     | 2   | 5/2/2011   | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | LOS ANGELES   | CA    | NSI  | LIVE ANIMAL RELEASED FROM COOLING<br>WATER INTAKE   | NSI  |                                      | P9                       |
| 2011 | 5     | 4   | 5/4/2011   | CALIFORNIA SEA LION | GILLNET FISHERY                                     | LOS ANGELES   | CA    | SI   | ENTANGLED IN GREEN GILL NET AROUND<br>NECK; SEVERAL LACERATIONS THROUGH<br>BLUBBER INTO MUSCLE LAYER. ANIMAL DIED<br>DURING TRANSPORTATION TO REHAB.  | DEAD   |                                      | P8A                      |
| 2011 | 5     | 8   | 5/8/2011   | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT                       | LINCOLN       | OR    | SI   | PLASTIC PACKING BAND CUTTING INTO NECK  | SI   |                                      | P8A                      |
| 2011 | 5     | 10  | 5/10/2011  | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2011 | 5     | 14  | 5/14/2011  | CALIFORNIA SEA LION | SHOOTING  | ALAMEDA       | CA    | SI   | RADIOGRAPHS DURING POST-MORTEM<br>EXAMINATION SHOWED ~30 PELLETS OF<br>DIFFERENT SIZES IN THE HEAD.   | DEAD   |                                      | P9                       |
| 2011 | 5     | 16  | 5/16/2011  | CALIFORNIA SEA LION | HOOK & LINE FISHERY                                 | LOS ANGELES   | CA    | SI   | THIN ANIMAL WITH FISH HOOKS IN LEFT REAR<br>FLIPPER, LEFT FRONT FLIPPER, AND RIGHT<br>FRONT FLIPPER, ANIMAL TRANSFERRED TO<br>REHABILITATION. FINAL STATUS UNKNOWN  | SI   |                                      | P1                       |
| 2011 | 5     | 29  | 5/29/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SANTA CRUZ    | CA    | DEAD   | ENTRAINMENT INTO POWER GENERATING<br>STATION. ANIMAL DISCOVERED IN STATION<br>COOLING WATER SYSTEM.   | DEAD   |                                      |                          |
| 2011 | 5     | 31  | 5/31/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | NSI  | ANIMAL CAUGHT AND RELEASED FROM<br>COOLING WATER INTAKE AREA  | NSI  |                                      | P9                       |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species             | Interaction Type                                    | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|---|--------------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                   |                          |
| 2011 | 6     | 7   | 6/7/2011  | CALIFORNIA SEA LION | GILLNET FISHERY                                     | ORANGE             | CA    | SI   | MALNUTRITION, GILLNET LACERATION AROUND NECK  | SI   | P8A                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2011 | 6     | 15  | 6/15/2011 | CALIFORNIA SEA LION | SHOOTING  | SAN LUIS<br>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                                   |                          |
| 2011 | 6     | 17  | 6/17/2011 | CALIFORNIA SEA LION | MARINE DEBRIS<br>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                                  |                          |
| 2011 | 6     | 17  | 6/17/2011 | CALIFORNIA SEA LION | SHOOTING  | PACIFIC            | WA    | DEAD   | HEAD BLOWN AWAY   | DEAD   |                                      |                          |
| 2011 | 6     | 20  | 6/20/2011 | CALIFORNIA SEA LION | GILLNET FISHERY/MARINE<br>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  |                                      |                          |
| 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                                   |                          |
| 2011 | 6     | 27  | 6/27/2011 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2011 | 6     | 27  | 6/27/2011 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT                             | LOS ANGELES        | CA    | DEAD   | ANIMAL CAUGHT IN SCREEN BAY AT POWER PLANT  | DEAD   |                                      |                          |
| 2011 | 6     | 27  | 6/27/2011 | CALIFORNIA SEA LION | GILLNET FISHERY                                     | SANTA BARBARA      | CA    | SI   | MONOFILAMENT GILLNET. ANIMAL TRANSFERRED TO REHABILITATION. FINAL STATUS UNKNOWN.   | SI   | P8A                                  |                          |
| 2011 | 6     | 28  | 6/28/2011 | CALIFORNIA SEA LION | GILLNET FISHERY                                     | LOS ANGELES        | 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                                  |                          |
| 2011 | 6     | 29  | 6/29/2011 | CALIFORNIA SEA LION | GILLNET FISHERY                                     | SANTA BARBARA      | CA    | SI   | MONOFILAMENT GILLNET AROUND NECK. ANIMAL SENT TO REHAB, FINAL STATUS UNKNOWN.   | SI   | P8A                                  |                          |
| 2011 | 7     | 6   | 7/6/2011  | 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                                   |                          |
| 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                                  |                          |
| 2011 | 7     | 9   | 7/9/2011  | CALIFORNIA SEA LION | MARINE DEBRIS INGESTION                             | CLALLAM            | WA    | DEAD   | SIGNS OF HUMAN INTERACTION OBSERVED ; CAN OF SPRAY AREASOL 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   |                                      |                          |
| 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                                  |                          |
| 2011 | 7     | 17  | 7/17/2011 | CALIFORNIA SEA LION | SHOOTING  | GRAY'S HARBOR      | WA    | DEAD   | BULLET FRAGMENT FOUND ON RADIOGRAPH   | DEAD   |                                      |                          |
| 2011 | 7     | 20  | 7/20/2011 | CALIFORNIA SEA LION | CA HALIBUT AND WHITE<br>SEABASS SET GILLNET FISHERY | OFFSHORE           | CA    | SI   | ANIMAL RELEASED ALIVE FROM GILLNET, NO TRAILING GEAR  | NSI  | P7B                                  |                          |

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| Year | Month | Day | Date      | Species             | Interaction Type              | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|---------------------|-------------------------------|--------------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2011 | 7     | 25  | 7/25/2011 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT | VENTURA            | CA    | SI   | ANIMAL DISENTANGLED FROM 'NETTING',<br>TAKEN TO REHAB CENTER  | NSI  | P7B                                  |                          |
| 2011 | 7     | 28  | 7/28/2011 | CALIFORNIA SEA LION | TRAWL FISHERY                 | CLALLAM            | WA    | DEAD   | TRIBAL FISHERY  | DEAD   |                                      |                          |
| 2011 | 8     | 2   | 8/2/2011  | CALIFORNIA SEA LION | HOOK & LINE FISHERY           | LINCOLN            | OR    | SI   | LARGE SILVER SALMON FLASHER STUCK TO<br>MOUTH; ANIMAL APPEARS SOMEWHAT THIN,<br>FLOATING GENERALLY MOTIONLESS AT<br>SURFACE   | SI   | P2                                   |                          |
| 2011 | 8     | 3   | 8/3/2011  | CALIFORNIA SEA LION | SHOOTING                      | LOS ANGELES        | CA    | SI   | NECROPSY RESULTS FOUND MULTIPLE<br>GUNSHOTS; REMOVED 2 BULLETS AND 1<br>PELLET.   | DEAD   | P12                                  |                          |
| 2011 | 8     | 8   | 8/8/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT       | SAN DIEGO          | CA    | NSI  | ENTRAINMENT INTO POWER GENERATING<br>STATION; ANIMAL DISCOVERED IN STATION<br>COOLING WATER SYSTEM AND RELEASED   | NSI  | P9                                   |                          |
| 2011 | 8     | 9   | 8/9/2011  | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT       | SAN DIEGO          | CA    | DEAD   | ENTRAINMENT INTO POWER GENERATING<br>STATION; ANIMAL DISCOVERED IN STATION<br>COOLING WATER SYSTEM  | DEAD   |                                      |                          |
| 2011 | 8     | 16  | 8/16/2011 | CALIFORNIA SEA LION | GILLNET FISHERY               | VENTURA            | CA    | DEAD   | ENTANGLED IN PINK MONOFILAMENT GILL<br>NET AROUND NECK AND BODY.  | DEAD   |                                      |                          |
| 2011 | 8     | 16  | 8/16/2011 | CALIFORNIA SEA LION | SHOOTING                      | SANTA CRUZ         | CA    | SI   | ON BEACH OVERNIGHT. GOOD BODY<br>CONDITION, LETHARGIC. SMALL OOZING<br>WOUND ON BACK. DIED IN REHAB. NECROPSY<br>FINDINGS: TRAUMA, GUNSHOT. PNEUMONIA   | DEAD   | P12                                  |                          |
| 2011 | 8     | 17  | 8/17/2011 | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT | COOS               | OR    | SI   | APPEARS TO HAVE SEVERAL WRAPS OF<br>LIGHT COLORED MATERIAL AROUND NECK,<br>CUTTING INTO FLESH/DEBRIS<br>ENTANGLEMENT; REPORTED AS 'TUNA<br>CABLE'; REPORTED AGAIN ON 8/20,<br>SWIMMING UNDER OBF DOCK   | SI   | P8A                                  |                          |
| 2011 | 8     | 17  | 8/17/2011 | CALIFORNIA SEA LION | SHOOTING                      | LOS ANGELES        | CA    | SI   | TEMPERATURE 99.0 F; FISH HOOK IN LEFT<br>CHEEK; MULTIPLE PUNCTURE WOUNDS<br>CONSISTENT WITH GUNSHOT; FIRM NODULE<br>LEFT LATERAL/VENTRAL NECK   | SI   | P12                                  |                          |
| 2011 | 8     | 22  | 8/22/2011 | CALIFORNIA SEA LION | POWER PLANT ENTRAINMENT       | SAN DIEGO          | CA    | DEAD   | ENTRAINMENT INTO POWER GENERATING<br>STATION; ANIMAL DISCOVERED IN STATION<br>COOLING WATER SYSTEM  | DEAD   |                                      |                          |
| 2011 | 9     | 1   | 9/1/2011  | CALIFORNIA SEA LION | SHOOTING                      | LOS ANGELES        | CA    | SI   | GUNSHOT RIGHT SHOULDER. RED WAXY<br>PAINT OR GREASE MARKER ON ABDOMEN;<br>RESPIRATION LABORED AND INCREASED;<br>ABDOMEN DISTENDED; NOT USING REAR<br>FLIPPERS. FINAL OUTCOME UNKNOWN.   | SI   | P9                                   |                          |
| 2011 | 9     | 4   | 9/4/2011  | CALIFORNIA SEA LION | SHOOTING                      | MONTEREY           | CA    | SI   | LETHARGIC, PUNCTURE NEAR SPINE,<br>MODERATELY UNDERWEIGHT. GUNSHOT ON<br>DORSAL SIDE OF ANIMAL, BULLET<br>FRAGMENTS WERE COLLECTED. ANIMAL<br>WAS EUTHANIZED IN REHAB   | DEAD   | P9                                   |                          |
| 2011 | 9     | 9   | 9/9/2011  | CALIFORNIA SEA LION | MARINE DEBRIS<br>ENTANGLEMENT | DOUGLAS            | OR    | SI   | INFECTED WOUND CAUSED BY IMBEDDED<br>BAND AROUND LOWER PORTION ON NECK,<br>LARGE FLAP OF FLESH HANGING FREE<br>UNDER THE NECK (-1 FOOT LONG), IT<br>APPEARS TO BE HAVING A DIFFICULT TIME<br>LIFTING ITS HEAD AND WALKING BUT IS VERY<br>ACTIVE; WAS GONE NEXT DAY  | SI   | P8A                                  |                          |
| 2011 | 9     | 9   | 9/9/2011  | CALIFORNIA SEA LION | RESEARCH ENTANGLEMENT         | OFFSHORE           | CA    | DEAD   | A MALE CALIFORNIA SEA LION WAS<br>ACCIDENTALLY CAPTURED AND DROWNED IN<br>A SURFACE TRAWL FOR JUVENILE SALMON<br>AS PART OF JUVENILE SALMON OCEAN<br>SURVEY.  | DEAD   |                                      |                          |
| 2011 | 9     | 11  | 9/11/2011 | CALIFORNIA SEA LION | GILLNET FISHERY               | SAN LUIS<br>OBISPO | CA    | SI   | GREEN MONOFILAMENT NETTING AROUND<br>NECK, BLEEDING, EMACIATED  | SI   | P1 AND P8A                           |                          |
| 2011 | 9     | 12  | 9/12/2011 | CALIFORNIA SEA LION | RESEARCH ENTANGLEMENT         | SOLANO             | CA    | NSI  | SEA LION WAS ENTANGLED AT THE SURFACE<br>OF A RESEARCH NET, TAKING CHINOOK<br>SALMON FROM THE NET. AFTER BEING<br>RELEASED, THE SEA LION WAS OBSERVED<br>SWIMMING AROUND THE BOAT AND<br>APPEARED UNHARMED  | NSI  | P7B                                  |                          |
| 2011 | 9     | 15  | 9/15/2011 | CALIFORNIA SEA LION | RESEARCH ENTANGLEMENT         | SOLANO             | CA    | NSI  | A SEA LION BECAME ENTANGLED IN THE NET<br>DURING A STURGEON TAGGING PROJECT.<br>SEA LION WAS RELEASED FROM THE NET<br>WHEN BROUGHT TO THE STERN OF THE<br>BOAT WITHOUT HAVING TO CUT THE NET,<br>THE NET WAS ONLY WRAPPED ONCE<br>AROUND THE SEA LION. THE SEA LION<br>IMMEDIATELY SWAM AWAY AND APPEARED<br>TO BE IN GOOD CONDITION. THE SEA LION<br>WAS OBSERVED TAKING CHINOOK SALMON<br>FROM THE NET. | NSI  | P7B                                  |                          |

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| Year | Month | Day | Date       | Species             | Interaction Type                   | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, S (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|---------------------|------------------------------------|-----------------|-------|---|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 2011 | 9     | 20  | 9/20/2011  | CALIFORNIA SEA LION | RESEARCH ENTANGLEMENT              | SOLANO          | CA    | DEAD  | DROWNED IN SCIENTIFIC RESEARCH NET   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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.  | DEAD   | P9                                   |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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, PELLETT 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                                   |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 2011 | 10    | 14  | 10/14/2011 | CALIFORNIA SEA LION | VESSEL STRIKE                      | CLATSOP         | OR    | DEAD  | VERTEBRA DISLOCATED WITH ASSOCIATED NECROSIS   | DEAD   |                                      |                          |
| 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                                   |                          |
| 2011 | 10    | 23  | 10/23/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE        | CA    | DEAD  | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2011 | 10    | 23  | 10/23/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE        | CA    | DEAD  | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2011 | 10    | 23  | 10/23/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE        | CA    | DEAD  | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE        | CA    | DEAD  | OBSERVER PROGRAM   | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species             | Interaction Type                   | County/Locale | STATE | Initial Injury Assessment: NSI, SI, SI (PRORATE), DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI, SI (PRORATE), DEAD, CAPTIVITY. | SI Criteria Supporting Assessment | SI Proration Value |
|------|-------|-----|------------|---------------------|------------------------------------|---------------|-------|--|---|--|-----------------------------------|--------------------|
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 25  | 10/25/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 27  | 10/27/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 27  | 10/27/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 27  | 10/27/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 27  | 10/27/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 27  | 10/27/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 10    | 29  | 10/29/2011 | CALIFORNIA SEA LION | VESSEL STRIKE                      | CLATSOP       | OR    | DEAD   | TREMENDOUS HEMORRHAGING   | DEAD   |                                   |                    |
| 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                                |                    |
| 2011 | 11    | 8   | 11/8/2011  | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 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                                |                    |
| 2011 | 11    | 15  | 11/15/2011 | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT         | CLATSOP       | OR    | DEAD   | ROPE LIKE MARKS ON LEFT VENTRAL PELVIC REGION   | DEAD   |                                   |                    |
| 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                                |                    |
| 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   |                                   |                    |
| 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   |                                   |                    |
| 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                                |                    |
| 2011 | 12    | 5   | 12/5/2011  | CALIFORNIA SEA LION | MARINE DEBRIS ENTANGLEMENT         | MONTEREY      | CA    | DEAD   | OLD ENTANGLEMENT SCAR AROUND NECK. PINK SCAR ON FLIPPER. ANIMAL LEFT ON BEACH, FINAL OUTCOME UNKNOWN.   | DEAD   |                                   |                    |
| 2011 | 12    | 17  | 12/17/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2011 | 12    | 18  | 12/18/2011 | CALIFORNIA SEA LION | SHOOTING                           | PIERCE        | WA    | DEAD   | BULLET FOUND IN SKULL   | DEAD   |                                   |                    |
| 2011 | 12    | 19  | 12/19/2011 | CALIFORNIA SEA LION | VESSEL STRIKE                      | PACIFIC       | WA    | DEAD   | PROPELLER MARKS   | DEAD   |                                   |                    |
| 2011 | 12    | 30  | 12/30/2011 | CALIFORNIA SEA LION | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                   |                    |
| 2008 | 10    | 19  | 10/19/2008 | FIN WHALE           | VESSEL STRIKE                      | LOS ANGELES   | CA    | DEAD   | CARCASS BROUGHT INTO HARBOR ON BOW OF FREIGHTER   | DEAD   |                                   |                    |
| 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               |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species    | Interaction Type                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|------------|----------------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 9     | 20  | 9/20/2010  | FIN WHALE  | VESSEL STRIKE                    | SAN FRANCISCO | CA    | DEAD   | BROKEN VERTEBRAE; LINEAR LACERATION  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2007 | 4     | 2   | 4/2/2007   | GRAY WHALE | GILLNET FISHERY                  | LOS ANGELES   | CA    | NSI  | FREE-SWIMMING ANIMAL TOWING 3-5 FEET OF SMALL MESH BLUE/GREEN MONOFILAMENT NETTING FROM AROUND TAIL STOCK; RESCUE EFFORT INITIATED; MOST OF NETTING CUT AWAY, SMALL AMOUNT OF LOOSE NETTING REMAINING AROUND TAIL STOCK; FINAL STATUS UNKNOWN  | NSI  | L3                                   | 0                        |

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|------|-------|-----|-----------|------------|---|------------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 4     | 20  | 4/20/2007 | GRAY WHALE | CRAB POT FISHERY<br>ENTANGLEMENT              | LINCOLN                | OR    | SI   | ENTANGLED IN CRAB GEAR. SKIPPER OF<br>NEARBY VESSEL REMOVED 8 POTS BEFORE<br>HE HAD TO RETURN TO PORT DUE TO<br>DARKNESS WHALE STILL HAD 8 BUOYS AND<br>SEVERAL WRAPS OF LINE AROUND MID-<br>SECTION, LEFT PECTORAL FLIPPER, AND<br>THROUGH MOUTH  | SI   | L2                                   | 1                        |
| 2007 | 6     | 1   | 6/1/2007  | GRAY WHALE | VESSEL STRIKE                                 | MARIN                  | CA    | DEAD   | CARCASS; 4 PROPELLER-LIKE WOUNDS TO<br>BODY  | DEAD   |                                      |                          |
| 2007 | 12    | 7   | 12/7/2007 | GRAY WHALE | RED KING CRAB POT FISHERY<br>ENTANGLEMENT     | OFFSHORE<br>BERING SEA | AK    | SI   | WHALE WAS SIGHTED IN HUMBOLDT BAY<br>TRAILING GEAR ON APRIL 12, 2008, APPX. 4<br>MONTHS AFTER BECOMING ENTANGLED IN<br>THE GEAR IN DECEMBER IN THE BERING SEA.<br>THE ANIMAL WAS TRAILING 40-50 FEET OF<br>LINE WITH THREE BUOYS ATTACHED. THEY<br>BUOYS WERE REMOVED BUT APPX. 20-30' OF<br>LINE REMAIN ATTACHED TO THE WHALE. THE<br>WHALE APPEARED SEVERLY MALNOURISHED<br>AND HAS AN S-SHAPED SPINE. | SI   | L2                                   | 1                        |
| 2008 | 2     | 7   | 2/7/2008  | GRAY WHALE | VESSEL STRIKE                                 | ORANGE                 | CA    | DEAD   | CARCASS; PROPELLER-LIKE WOUNDS TO<br>LEFT DORSUM FROM MID-BODY TO CAUDAL<br>PEDUNCLE; DEEP EXTERNAL BRUISING ON<br>RIGHT SIDE OF HEAD; FIELD NECROPSY<br>REVEALED MULTIPLE CRANIAL FRACTURES   | DEAD   |                                      |                          |
| 2008 | 3     | 1   | 3/1/2008  | GRAY WHALE | VESSEL STRIKE                                 | MEXICO                 | CA    | DEAD   | CARCASS BROUGHT INTO PORT ON BOW OF<br>CRUISE SHIP; COLLISION OCCURRED<br>BETWEEN PORTS OF SAN DIEGO & CABO<br>SAN LUCAS BETWEEN 5:00 P.M. ON 2/28 & 7:20<br>A.M. ON 3/1   | DEAD   |                                      |                          |
| 2009 | 1     | 31  | 1/31/2009 | GRAY WHALE | UNIDENTIFIED POT/TRAP<br>FISHERY ENTANGLEMENT | SAN DIEGO              | CA    | SI (PRORATE)   | FREE-SWIMMING ANIMAL TOWING<br>UNIDENTIFIED POT/TRAP GEAR; USCG<br>REPORTED GEAR AS 4 LOBSTER POTS; FINAL<br>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<br>WRAPPED AROUND HEAD, TRAILING 4 FEET<br>OF VISIBLE NETTING; REPORT RECEIVED VIA<br>NATURALIST ON LOCAL WHALEWATCH<br>VESSEL; NO RESCUE EFFORT INITIATED;<br>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;<br>EXTENSIVE HEMORRHAGE HEAD AND<br>THORAX; SUB-ADULT MALE  | DEAD   |                                      |                          |
| 2009 | 4     | 5   | 4/5/2009  | GRAY WHALE | VESSEL STRIKE                                 | ORANGE                 | CA    | DEAD   | DEAD STRANDING; 3 DEEP PROPELLER-LIKE<br>CUTS ON RIGHT SIDE, JUST ANTERIOR OF<br>GENITAL OPENING; CARCASS TOWED OUT TO<br>SEA ON 6-APR, RESTRANDED AT 29TH STREET<br>IN DEL MAR ON 10-APR; CARCASS TOWED<br>OUT & RESTRANDED AT TORREY PINES STATE<br>BEACH ON 12-APR; CARCASS EXAMINED BY<br>LACMNH & SWFSC PERSONNEL   | DEAD   |                                      |                          |
| 2009 | 4     | 9   | 4/9/2009  | GRAY WHALE | MARINE DEBRIS<br>ENTANGLEMENT                 | SITKA                  | AK    | SI   | THICK BLACK LINE WRAPPED TWICE AROUND<br>WHALE'S BODY POSTERIOR TO THE EYES.<br>PRIVATE CITIZEN CUT AND PULLED AWAY THE<br>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,<br>BRUISING IN SOME AREAS OF BLUBBER<br>LAYER AND IN SOME INTERNAL ORGANS.<br>FINDINGS SUGGESTIVE OF BLUNT FORCE<br>TRAUMA LIKELY CAUSED BY COLLISION WITH<br>A LARGE SHIP.  | DEAD   |                                      |                          |
| 2009 | 5     | 1   | 5/1/2009  | GRAY WHALE | VESSEL STRIKE                                 | LOS ANGELES            | CA    | SI   | CATALINA ISLAND TRANSPORT VESSEL<br>COLLIDED WITH FREE-SWIMMING CALF<br>ACCOMPANIED BY ADULT ANIMAL; CALF WAS<br>SUBMERGED AT TIME OF COLLISION; PIECES<br>OF FLESH & BLOOD OBSERVED IN WATER;<br>CALF NEVER SURFACED; PRESUMED<br>MORTALITY. VESSEL SIZE = 85 FT. SPEED =<br>27 KTS.  | SI   | L6A                                  | 1                        |

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|------|-------|-----|-----------|------------|---|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2009 | 6     | 24  | 6/24/2009 | GRAY WHALE | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | 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 WEBBINGS. 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.   | SI   | L2                                   | 1                        |
| 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   |                                      |                          |
| 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<br>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<br>ENTANGLEMENT        | CLATSOP       | OR    | DEAD   | ENTANGLED IN CRAB POT LINES   | DEAD   |                                      |                          |
| 2010 | 5     | 7   | 5/7/2010  | GRAY WHALE | CRAB POT FISHERY<br>ENTANGLEMENT        | LINCOLN       | OR    | SI (PRORATE)   | ENTANGLED IN 3 CRAB POTS, WHALE NOT RELOCATED   | SI (PRORATE)   | L10                                  | 0.75                     |
| 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 DOHERTY STATE BEACH BEFORE WASHING UP DEAD ON BEACH   | DEAD   |                                      |                          |
| 2010 | 8     | 17  | 8/17/2010 | GRAY WHALE | CRAB POT FISHERY<br>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                        |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species    | Interaction Type                           | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|------------|--|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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                        |
| 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                        |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species            | Interaction Type  | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|--------------------|---|--------------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2011 | 9     | 27  | 9/27/2011  | GRAY WHALE         | COD POT FISHERY<br>ENTANGLEMENT                               | KODIAK             | AK    | SI   | ENTANGLED IN COD POT GEAR; 3-5 WRAPS<br>OF LINE AROUND PEDUNCLE AND WHALE<br>IMMOBILIZED; 2-3 WRAPS OF FLOATING POLY<br>BUOY LINES WRAPPED CLOSE TO FLUKES,<br>SINGLE WRAP OF POT LINE AROUND<br>PEDUNCLE EXTENDED DOWN TO THE POT AT<br>AN ANGLE; FLUKES IMMOBILIZED;<br>COMPLETELY DISENTANGLED AFTER 2 HRS<br>AND OBSERVED SWIMMING SLOWLY, NON-<br>SERIOUS INJURY BECAUSE WHALE'S<br>CONDITION WAS REPORTED AS GOOD AND<br>ALL GEAR REMOVED. | NSI  | L2                                   |                          |
| 2007 | 6     | 10  | 6/10/2007  | GUADALUPE FUR SEAL | GILLNET FISHERY   | SAN LUIS<br>OBISPO | CA    | SI   | LIVE STRANDING; GREEN MONOFILAMENT<br>GILLNET FRAGMENT WRAPPED AROUND<br>LOWER PART OF NECK; NON-FATAL INJURY<br>(ANIMAL TAKEN INTO REHAB, TREATED &<br>RELEASED)  | NSI  | P7B                                  |                          |
| 2007 | 8     | 6   | 8/6/2007   | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | DEL NORTE          | CA    | SI   | LIVE STRANDING; BALLOON RIBBON AROUND<br>SHOULDERS; NON-FATAL INJURY (ANIMAL<br>TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 2008 | 2     | 7   | 2/7/2008   | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | SANTA CRUZ         | CA    | SI   | LIVE STRANDING; WHITE STRING AROUND<br>NECK; NON-FATAL INJURY (ANIMAL TAKEN<br>INTO REHAB, DISENTANGLED, TREATED &<br>RELEASED)  | NSI  | P7B                                  |                          |
| 2009 | 3     | 29  | 3/29/2009  | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | SAN MATEO          | CA    | SI   | LIVE STRANDING; BALLOON STRING<br>WRAPPED AROUND SHOULDERS; NON-FATAL<br>INJURY (ANIMAL RELEASED FROM REHAB)   | NSI  | P7B                                  |                          |
| 2009 | 5     | 4   | 5/4/2009   | GUADALUPE FUR SEAL | GILLNET FISHERY   | SAN LUIS<br>OBISPO | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT<br>AROUND NECK; NON-FATAL INJURY (ANIMAL<br>RELEASED FROM REHAB)  | NSI  | P7B                                  |                          |
| 2009 | 6     | 15  | 6/15/2009  | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | SAN MATEO          | CA    | DEAD   | DEAD STRANDING; GREEN NYLON NETTING<br>AROUND NECK; STRETCHED NET MESH<br>DIAMETER = 4 INCHES; CARCASS EXAMINED<br>BY CAS PERSONNEL  | DEAD   |                                      |                          |
| 2009 | 11    | 22  | 11/22/2009 | GUADALUPE FUR SEAL | GILLNET FISHERY   | COOS               | OR    | DEAD   | ENTANGLED IN GREEN NETTING   | DEAD   |                                      |                          |
| 2010 | 1     | 16  | 1/16/2010  | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | LOS ANGELES        | CA    | SI   | ANIMAL DIED IN REHAB   | DEAD   |                                      |                          |
| 2010 | 6     | 14  | 6/14/2010  | GUADALUPE FUR SEAL | GILLNET FISHERY   | PACIFIC            | WA    | DEAD   | HEAD ENTANGLED IN NETTING  | DEAD   |                                      |                          |
| 2011 | 1     | 25  | 1/25/2011  | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | LOS ANGELES        | CA    | SI   | FISHING ENTANGLEMENT; AROUND NECK BUT<br>NOT EMBEDDED; 2 HOOKS IN LEFT REAR<br>FLIPPER ON DORSAL AND ONE VENTRAL,<br>TRANSFERRED TO REHABILITATION CENTER,<br>FINAL STATUS UNKNOWN   | SI   | P7B                                  |                          |
| 2011 | 5     | 6   | 5/6/2011   | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | SAN MATEO          | CA    | DEAD   | ENTANGLED AROUND SHOULDERS WITH<br>BALLOON RIBBON, ADVANCED<br>DECOMPOSITION - RIBBON DID NOT<br>PENETRATE SKIN  | DEAD   |                                      |                          |
| 2011 | 6     | 9   | 6/9/2011   | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | SAN LUIS<br>OBISPO | CA    | SI   | WHITE BALLOON STRING AROUND NECK.<br>ANIMAL DIED IN REHAB  | DEAD   | P8A                                  |                          |
| 2011 | 6     | 18  | 6/18/2011  | GUADALUPE FUR SEAL | GILLNET FISHERY/MARINE<br>DEBRIS ENTANGLEMENT                 | SAN MATEO          | CA    | SI   | ANIMAL ENTANGLED IN GREEN TWINE /<br>NETTING. NETTING HAD BARNACLES ON IT,<br>INDICATIVE OF GHOST NETTING / MARINE<br>DEBRIS   | SI   | P8A                                  |                          |
| 2011 | 7     | 1   | 7/1/2011   | GUADALUPE FUR SEAL | MARINE DEBRIS<br>ENTANGLEMENT                                 | GRAY'S HARBOR      | WA    | DEAD   |  | DEAD   |                                      |                          |
| 2011 | 7     | 18  | 7/18/2011  | GUADALUPE FUR SEAL | GILLNET FISHERY   | JEFFERSON          | WA    | DEAD   | CUTS ON ANIMAL SUGGESTIVE OF<br>ENTANGLING NET FISHERY INTERACTION   | DEAD   |                                      |                          |
| 2007 | 7     | 6   | 7/6/2007   | HARBOR PORPOISE    | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT                      | DEL NORTE          | CA    | DEAD   | CARCASS; LINE/ROPE LACERATIONS<br>ENCIRCLING CAUDAL PEDUNCLE   | DEAD   |                                      |                          |
| 2007 | 8     | 5   | 8/5/2007   | HARBOR PORPOISE    | UNIDENTIFIED FISHERY<br>INTERACTION                           | PACIFIC            | WA    | DEAD   | CARCASS; ROPE MARKS, HEMORRHAGE AND<br>BRUISING AROUND HEAD, NEAR DORSAL FIN<br>AND ON TAIL STOCK  | DEAD   |                                      |                          |
| 2007 | 8     | 27  | 8/27/2007  | HARBOR PORPOISE    | MARINE DEBRIS<br>ENTANGLEMENT/RIVER<br>SALMON GILLNET FISHERY | HUMBOLDT           | CA    | DEAD   | 1 OF 2 CARCASSES ENTANGLED IN LOST<br>RIVER NET THAT PROBABLY DRIFTED OUT TO<br>SEA  | DEAD   |                                      |                          |
| 2007 | 8     | 27  | 8/27/2007  | HARBOR PORPOISE    | MARINE DEBRIS<br>ENTANGLEMENT/RIVER<br>SALMON GILLNET FISHERY | HUMBOLDT           | CA    | DEAD   | 1 OF 2 CARCASSES ENTANGLED IN LOST<br>RIVER NET THAT PROBABLY DRIFTED OUT TO<br>SEA  | DEAD   |                                      |                          |
| 2007 | 10    | 19  | 10/19/2007 | HARBOR PORPOISE    | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT                      | CLATSOP            | OR    | DEAD   | CARCASS; CUTS POSTERIOR TO DORSAL FIN<br>IN TAIL STOCK; NET INDENTATIONS; FOAM IN<br>TRACHEA   | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species         | Interaction Type                         | County/Locale      | STATE | Initial Injury Assessment:<br>NSI, SI, S1 (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI<br>Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-----------------|--|--------------------|-------|--|--|--|---|--------------------------|
| 2007 | 10    | 29  | 10/29/2007 | HARBOR PORPOISE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT | PIERCE             | WA    | DEAD   | SINGLE LINE IMPRESSION AROUND HEAD ON<br>LOWER JAW JUST BEHIND EYE; POTENTIAL<br>ENTANGLEMENT SCARRING AT TIP OF<br>ROSTRUM ON BOTH SIDES OF LOWER JAW;<br>HEMORRHAGE IN MOUTH; FISH PARTS IN<br>ESOPHAGUS AND STOMACH | DEAD   |   |                          |
| 2008 | 5     | 24  | 5/24/2008  | HARBOR PORPOISE | GILLNET FISHERY                          | GRAYS HARBOR       | WA    | DEAD   | CARCASS: APPEARS TO BE MONOFILAMENT<br>NET SCARRING ALONG TAILSTOCK, WITH<br>ASSOCIATED HEMORRHAGING IN BLUBBER<br>UNDER SURFACE MARKINGS  | DEAD   |   |                          |
| 2008 | 8     | 26  | 8/26/2008  | HARBOR PORPOISE | GILLNET FISHERY                          | SAN LUIS<br>OBISPO | CA    | DEAD   | CARCASS: GILLNET-LIKE IMPRINT ON CAUDAL<br>PEDUNCLE  | DEAD   |   |                          |
| 2009 | 3     | 23  | 3/23/2009  | HARBOR PORPOISE | UNIDENTIFIED FISHERY<br>INTERACTION      | CLATSOP            | OR    | DEAD   | PATTERNS OF HEMORRHAGE; BLOOD IN<br>THORAX AND ABDOMEN; FOAM IN LUNGS AND<br>RIB MARKS ON RIGHT AND LEFT LUNGS   | DEAD   |   |                          |
| 2009 | 4     | 9   | 4/9/2009   | HARBOR PORPOISE | UNIDENTIFIED FISHERY<br>INTERACTION      | CLATSOP            | OR    | DEAD   | CARCASS: LINE MARKS, CUTS, EXTENSIVE<br>HEMORRHAGE, AND BRUISING; BLOODY<br>FOAM IN TRACHEA; RIB MARKS ON LUNGS  | DEAD   |   |                          |
| 2009 | 4     | 26  | 4/26/2009  | HARBOR PORPOISE | MARINE DEBRIS<br>ENTANGLEMENT            | KING               | WA    | DEAD   | CARCASS: WIDE INDENTATION ON TAILSTOCK<br>(LOOKS LIKE WIDE (5/8") ROPE), 6 CM<br>POSTERIOR TO ANUS, EXTENDING HALFWAY<br>UP LEFT SIDE; ASSOCIATED HEMORRHAGE IN<br>BLUBBER UNDERNEATH                                  | DEAD   |   |                          |
| 2009 | 8     | 11  | 8/11/2009  | HARBOR PORPOISE | UNIDENTIFIED FISHERY<br>INTERACTION      | PACIFIC            | WA    | DEAD   | CARCASS: EXTENSIVE BRUISING; FOAM IN<br>TRACHEA; CUTS AROUND HEAD; RIGHT FLUKE<br>AND FLIPPER CUT OFF  | DEAD   |   |                          |
| 2009 | 8     | 26  | 8/26/2009  | HARBOR PORPOISE | MARINE DEBRIS<br>ENTANGLEMENT            | KITSAP             | WA    | SI   | REPEATED LIVE STANDINGS; NO SIGNS OF<br>ENTANGLEMENT AROUND<br>MOUTH/FLIPPERS/DORSAL FIN; SIGNS OF<br>ENTANGLEMENT ON TAILSTOCK; DIED<br>DURING TRANSPORT  | DEAD   | S1                                      |                          |
| 2009 | 10    | 20  | 10/20/2009 | HARBOR PORPOISE | GILLNET FISHERY                          | KITSAP             | WA    | DEAD   | MARKS CONSISTENT WITH MONOFILAMENT<br>LINE AROUND MOUTH  | DEAD   |   |                          |
| 2009 | 10    | 20  | 10/20/2009 | HARBOR PORPOISE | GILLNET FISHERY                          | KITSAP             | WA    | DEAD   | CARCASS: NON-TRIBAL PURSE SEINES AND<br>TRIBAL GILLNETS IN AREA; EVIDENCE OF<br>FRESH MONOFILAMENT INJURIES  | DEAD   |   |                          |
| 2009 | 10    | 22  | 10/22/2009 | HARBOR PORPOISE | SALMON GILLNET FISHERY<br>ENTANGLEMENT   | JEFFERSON          | WA    | DEAD   | MONOFILAMENT IMPRESSIONS ON ROSTRUM,<br>PECTORAL FINS, TAILSTOCK, FLUKES   | DEAD   |   |                          |
| 2010 | 1     | 4   | 1/4/2010   | HARBOR PORPOISE | UNIDENTIFIED FISHERY<br>INTERACTION      | CLALLAM            | WA    | DEAD   | CARCASS: POSSIBLE ENTANGLEMENT<br>INJURIES ON LOWER JAW WITH<br>CORRESPONDING HEMORRHAGE; INTERNAL<br>EVIDENCE OF DROWNING   | DEAD   |   |                          |
| 2010 | 2     | 23  | 2/23/2010  | HARBOR PORPOISE | MARINE DEBRIS<br>ENTANGLEMENT            | GRAYS HARBOR       | WA    | DEAD   | CARCASS: TWO ENTANGLEMENT SCARS ON<br>TAILSTOCK WITH HEMORRHAGE<br>UNDERNEATH  | DEAD   |   |                          |
| 2010 | 7     | 4   | 7/4/2010   | HARBOR PORPOISE | MARINE DEBRIS<br>ENTANGLEMENT            | CLATSOP            | OR    | DEAD   | CARCASS: LINE MARKS ON FLIPPERS AND<br>ALONG RIGHT SIDE; RIB MARKS ON LUNGS;<br>BLOODY FOAM FROM BLOWHOLE; BLOOD IN<br>ABDOMINAL CAVITY  | DEAD   |   |                          |
| 2010 | 7     | 10  | 7/10/2010  | HARBOR PORPOISE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT | CLATSOP            | OR    | DEAD   | CARCASS: FISHING LINE/NET MARKS ON FIN<br>AND FLUKE EDGES; BLOOD IN PERICARDIUM<br>AND THORACIC AND ABDOMINAL CAVITIES   | DEAD   |   |                          |
| 2010 | 10    | 21  | 10/21/2010 | HARBOR PORPOISE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT | KITSAP             | WA    | DEAD   | CARCASS: NUMEROUS ENTANGLEMENT<br>SCARS, IMPRESSIONS AND LACERATIONS,<br>WITH ASSOCIATED HEMORRHAGE  | DEAD   |   |                          |
| 2011 | 1     | 2   | 1/2/2011   | HARBOR PORPOISE | VESSEL STRIKE                            | LINCOLN            | OR    | DEAD   | CARCASS: RIGHT LOBE OF FLUKE CUT OFF<br>CLEANLY; OTHER LACERATIONS INDICATE<br>PROPELLER WOUNDS  | DEAD   |   |                          |
| 2011 | 1     | 27  | 1/27/2011  | HARBOR PORPOISE | RESEARCH ENTANGLEMENT                    | MONTEREY           | CA    | NSI  | HARBOR PORPOISE BECAME ENTANGLED IN<br>SEABIRD RESEARCH NET DURING RETRIEVAL.<br>ANIMAL WAS IMMEDIATELY FREED OF NET<br>AND SPENT LESS THAN 2 MINUTES<br>ENTANGLED. PORPOISE SWAM AWAY<br>STRONGLY.                    | NSI  | S7B                                     |                          |
| 2011 | 5     | 5   | 5/5/2011   | HARBOR PORPOISE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT | PACIFIC            | WA    | DEAD   | CARCASS: SUBSTANTIAL FOAM IN TRACHEA;<br>SEROUS FLUID IN PLEURAL CAVITY;<br>THORACIC ORGANS BRUISED; EXTERNAL<br>MARKS (NET?) AND RUBBED AREAS   | DEAD   |   |                          |
| 2011 | 5     | 14  | 5/14/2011  | HARBOR PORPOISE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT | PACIFIC            | WA    | DEAD   | CARCASS: SUBSTANTIAL BLOODY FOAM<br>FROM BLOWHOLE AND IN TRACHEA;<br>INDENTATIONS ALONG PEDUNCLE AND<br>MARKS NEAR FLIPPERS  | DEAD   |   |                          |

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| Year | Month | Day | Date      | Species         | Interaction Type                                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|-----------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2011 | 5     | 27  | 5/27/2011 | HARBOR PORPOISE | UNIDENTIFIED FISHERY INTERACTION                 | PACIFIC       | WA    | DEAD   | MANY PARALLEL CUTS ACROSS ANIMAL, TREMENDOUS HEMORRHAGING. UPPER JAW TIP BROKEN   | DEAD   |                                      |                          |
| 2011 | 6     | 3   | 6/3/2011  | HARBOR PORPOISE | UNIDENTIFIED FISHERY INTERACTION                 | PACIFIC       | WA    | DEAD   | MANY PARALLEL CUTS ACROSS ANIMAL, TREMENDOUS HEMORRHAGING   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2007 | 2     | 1   | 2/1/2007  | HARBOR SEAL     | MARINE DEBRIS ENTANGLEMENT                       | ISLAND        | WA    | DEAD   | ONE OF 4 HARBOR SEALS FOUND DEAD IN APPROXIMATELY 500 FT OF NETTING   | DEAD   |                                      |                          |
| 2007 | 2     | 1   | 2/1/2007  | HARBOR SEAL     | MARINE DEBRIS ENTANGLEMENT                       | ISLAND        | WA    | DEAD   | ONE OF 4 HARBOR SEALS FOUND DEAD IN APPROXIMATELY 500 FT OF NETTING   | DEAD   |                                      |                          |
| 2007 | 2     | 1   | 2/1/2007  | HARBOR SEAL     | MARINE DEBRIS ENTANGLEMENT                       | ISLAND        | WA    | DEAD   | ONE OF 4 HARBOR SEALS FOUND DEAD IN APPROXIMATELY 500 FT OF NETTING   | DEAD   |                                      |                          |
| 2007 | 2     | 1   | 2/1/2007  | HARBOR SEAL     | MARINE DEBRIS ENTANGLEMENT                       | ISLAND        | WA    | DEAD   | ONE OF 4 HARBOR SEALS FOUND DEAD IN APPROXIMATELY 500 FT OF NETTING   | DEAD   |                                      |                          |
| 2007 | 2     | 8   | 2/8/2007  | HARBOR SEAL     | GILLNET FISHERY                                  | VENTURA       | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT AROUND NECK, OPEN WOUND SHOWING; ANIMAL HAULED OUT ON HARBOR SEAL ROOKERY IN VICINITY OF OTHER ANIMALS; FINAL STATUS UNKNOWN                         | SI   | P8A                                  |                          |
| 2007 | 2     | 20  | 2/20/2007 | HARBOR SEAL     | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 3     | 1   | 3/1/2007  | HARBOR SEAL     | VESSEL STRIKE                                    | VENTURA       | CA    | SI   | LIVE STRANDING; 12 INCH PROPELLER-LIKE WOUND ON BACK; ANIMAL HAULED OUT AMONGST 100 OTHER SEALS ON HARBOR SEAL ROOKERY; FINAL STATUS UNKNOWN  | SI   | P9 AND P15                           |                          |
| 2007 | 3     | 6   | 3/6/2007  | HARBOR SEAL     | SHOOTING   | GRAYS HARBOR  | WA    | SI   | LIVE STRANDING; SECRETING MUCOUS FROM NOSE; DEAD NEXT DAY; TWO BULLET HOLES SEEN EXTERNALLY, CONFIRMED BY RADIOGRAPHS; SHRAPNEL FOUND IN BRAIN CAVITY                                 | DEAD   | P9                                   |                          |
| 2007 | 3     | 26  | 3/26/2007 | HARBOR SEAL     | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 4     | 4   | 4/4/2007  | HARBOR SEAL     | VESSEL STRIKE                                    | ISLAND        | WA    | DEAD   | FRESH DEAD SEAL WITH PART OF HEAD MISSING AND CUT ON NOSE   | DEAD   |                                      |                          |
| 2007 | 4     | 6   | 4/6/2007  | HARBOR SEAL     | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 4     | 7   | 4/7/2007  | HARBOR SEAL     | VESSEL STRIKE                                    | ISLAND        | WA    | DEAD   | FRESH DEAD SEAL WITH TOP OF HEAD MISSING.   | DEAD   |                                      |                          |
| 2007 | 4     | 9   | 4/9/2007  | HARBOR SEAL     | HOOK & LINE FISHERY                              | LOS ANGELES   | CA    | NSI  | LIVE STRANDING; FISH HOOK IN RIGHT FRONT FLIPPER; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = GASTROENTERITIS)  | DEAD   | P5C                                  |                          |
| 2007 | 4     | 11  | 4/11/2007 | HARBOR SEAL     | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 4     | 23  | 4/23/2007 | HARBOR SEAL     | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 4     | 24  | 4/24/2007 | HARBOR SEAL     | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2007 | 4     | 25  | 4/25/2007 | HARBOR SEAL     | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2007 | 5     | 1   | 5/1/2007  | HARBOR SEAL     | HOOK & LINE FISHERY                              | SANTA BARBARA | CA    | NSI  | LIVE STRANDING; FISH HOOK & FISHING LURE IN BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 5     | 5   | 5/5/2007  | HARBOR SEAL     | SHOOTING   | MARIN         | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 2007 | 5     | 23  | 5/23/2007 | HARBOR SEAL     | POWER PLANT ENTRAINMENT                          | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 3 ANIMALS FOUND AT THIS SITE ON THIS DATE  | DEAD   |                                      |                          |
| 2007 | 6     | 3   | 6/3/2007  | HARBOR SEAL     | GILLNET FISHERY                                  | SAN DIEGO     | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P7B                                  |                          |
| 2007 | 6     | 23  | 6/23/2007 | HARBOR SEAL     | GILLNET FISHERY                                  | ORANGE        | CA    | SI   | LIVE STRANDING; GILLNET FRAGMENT WRAPPED AROUND NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P7B                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species     | Interaction Type                                    | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-------------|---|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 6     | 28  | 6/28/2007  | HARBOR SEAL | HOOK & LINE FISHERY                                 | SAN DIEGO     | CA    | NSI  | LIVE STRANDING; 3 FISH HOOKS & FISHING LURE IN BODY; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)  | NSI  | P5C                                  |                          |
| 2007 | 7     | 17  | 7/17/2007  | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 7     | 19  | 7/19/2007  | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 7     | 29  | 7/29/2007  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT/NET FISHERY ENTANGLEMENT | SKAGIT        | WA    | SI   | LIVE PUP WITH FLIPPER CAUGHT IN NETTING; PUP WAS FREED AND SWAM AWAY (A DEAD PUP WAS ALSO CAUGHT IN THE SAME NETTING)  | NSI  | P7B                                  |                          |
| 2007 | 7     | 29  | 7/29/2007  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT/NET FISHERY ENTANGLEMENT | SKAGIT        | WA    | DEAD   | DEAD PUP FOUND IN SAME NETTING AS LIVE PUP THAT WAS RELEASED.  | DEAD   |                                      |                          |
| 2007 | 8     | 1   | 8/1/2007   | HARBOR SEAL | DOG ATTACK  | SKAGIT        | WA    | SI   | PUP ATTACKED BY DOG; FOUR PUNCTURE WOUNDS ON BACK; DIED FROM INJURIES  | DEAD   | P9                                   |                          |
| 2007 | 8     | 6   | 8/6/2007   | HARBOR SEAL | VESSEL STRIKE                                       | SAN JUAN      | WA    | DEAD   | CARCASS; ADULT FEMALE WITH PROPELLER WOUNDS ACROSS BACK.   | DEAD   |                                      |                          |
| 2007 | 8     | 23  | 8/23/2007  | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 9     | 18  | 9/18/2007  | HARBOR SEAL | SHOOTING  | THURSTON      | WA    | DEAD   | CARCASS; TRACKING WOUND (WITH HEMORRHAGE) THROUGH NECK, PASSING BETWEEN TRACHEA AND VERTEBRAL COLUMN; RIGHT UPPER JAW AND LOWER RIGHT PORTION OF CRANIUM SHATTERED; NO BULLETS RECOVERED   | DEAD   |                                      |                          |
| 2007 | 9     | 19  | 9/19/2007  | HARBOR SEAL | SHOOTING  | THURSTON      | WA    | DEAD   | CARCASS; MULTIPLE SMALL HOLES INTO BLUBBER ON LEFT AND VENTRAL SIDE OF NECK; SMALL PIECE OF WHAT APPEARED TO BE SHRAPNEL PULLED OUT OF ONE OF THE SITES  | DEAD   |                                      |                          |
| 2007 | 9     | 21  | 9/21/2007  | HARBOR SEAL | SHOOTING  | THURSTON      | WA    | DEAD   | CARCASS; BULLET RECOVERED FROM TISSUE ON TOP OF HEAD, ANOTHER BULLET HOLE FOUND ABOVE LEFT EYE; SKULL RADIOGRAPHED AND SECOND BULLET FOUND EMBEDDED IN BRAIN   | DEAD   |                                      |                          |
| 2007 | 9     | 23  | 9/23/2007  | HARBOR SEAL | HOOK & LINE FISHERY                                 | KING          | WA    | NSI  | LIVE STRANDING WITH FISH HOOK IN LIP; TRANSPORTED TO REHAB FOR HOOK REMOVAL AND ASSESSMENT; DIED OVERNIGHT   | DEAD   | P5C                                  |                          |
| 2007 | 9     | 25  | 9/25/2007  | HARBOR SEAL | SHOOTING  | WHATCOM       | WA    | DEAD   | CARCASS; ENTRY WOUND ON TOP OF CRANIUM, SLIGHTLY POSTERIOR OF ORBITS, PROBABLY FROM SMALL-CALIBER BULLET; APPEARS THAT BULLET LODGED IN OR PASSED THROUGH LEFT ORBIT, CAUSING MASSIVE HEMORRHAGING ACROSS ENTIRE CRANIUM AND BRUISING EXTENDING 15-20 CM POSTERIOR OF ENTRY POINT; NO BULLET RECOVERED | DEAD   |                                      |                          |
| 2007 | 9     | 27  | 9/27/2007  | HARBOR SEAL | VESSEL STRIKE                                       | JEFFERSON     | WA    | DEAD   | CARCASS; SEAL WAS SEVERELY DISEMBOWELED, MOST LIKELY FROM BEING STRUCK BY A BOAT PROPELLER   | DEAD   |                                      |                          |
| 2007 | 10    | 3   | 10/3/2007  | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL; 1 OF 2 ANIMALS FOUND AT THIS SITE ON THIS DATE   | DEAD   |                                      |                          |
| 2007 | 10    | 23  | 10/23/2007 | HARBOR SEAL | GAFF INJURY   | KING          | WA    | SI   | LIVE STRANDING; VERY DEEP HUMAN-CAUSED PUNCTURE INJURY (CONSISTENT WITH A SHARP GAFF WOUND) IN FLIPPER; NO BITE MARKS; PUP TAKEN INTO REHAB; STRUGGLED WITH LUNG CONGESTION AND WOUND INFRACTION; WOUND WAS HEALING, BUT PUP NEVER GAINED WEIGHT AND LUNGS WERE VERY CONGESTED; DIED IN REHAB          | DEAD   | P9                                   |                          |
| 2007 | 10    | 29  | 10/29/2007 | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 11    | 6   | 11/6/2007  | HARBOR SEAL | SHOOTING  | SANTA CLARA   | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD   | DEAD   |                                      |                          |
| 2007 | 11    | 12  | 11/12/2007 | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 11    | 24  | 11/24/2007 | HARBOR SEAL | POWER PLANT ENTRAINMENT                             | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2007 | 12    | 5   | 12/5/2007  | HARBOR SEAL | HOOK & LINE FISHERY                                 | PIERCE        | WA    | DEAD   | CARCASS; DOUBLE FISH HOOK JUST BEFORE COLON PERFORATED SMALL INTESTINES AND CAUSED PERITONITIS AND INTESTINAL TORSION; MOUTH ULCERATION, POSSIBLY WHERE FISH HOOK WAS INITIALLY STUCK  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species     | Interaction Type                           | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-------------|--|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 12    | 29  | 12/29/2007 | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2008 | 4     | 17  | 4/17/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2008 | 4     | 17  | 4/17/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2008 | 4     | 27  | 4/27/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2008 | 5     | 5   | 5/5/2008   | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2008 | 5     | 5   | 5/5/2008   | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2008 | 5     | 10  | 5/10/2008  | HARBOR SEAL | VESSEL STRIKE                              | MARIN         | CA    | DEAD   | CARCASS; PROPELLER-LIKE WOUNDS TO BODY  | DEAD   |                                      |                          |
| 2008 | 5     | 15  | 5/15/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2008 | 5     | 19  | 5/19/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 2008 | 5     | 19  | 5/19/2008  | HARBOR SEAL | OIL SPILL                                  | ORANGE        | CA    | SI   | LIVE STRANDING; 80% OF BODY COVERED WITH BUNKER TAR; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P9                                   |                          |
| 2008 | 5     | 23  | 5/23/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2008 | 5     | 28  | 5/28/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                   |                          |
| 2008 | 6     | 3   | 6/3/2008   | HARBOR SEAL | GILLNET FISHERY/MARINE DEBRIS ENTANGLEMENT | SANTA BARBARA | CA    | DEAD   | CARCASS FLOATING IN KELP BED WRAPPED IN GILLNET MASS  | DEAD   |                                      |                          |
| 2008 | 6     | 4   | 6/4/2008   | HARBOR SEAL | POWER PLANT ENTRAINMENT                    | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |

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|------|-------|-----|------------|-------------|---|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 2008 | 7     | 28  | 7/28/2008  | HARBOR SEAL | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | CLALLAM       | WA    | DEAD   | FOUND DEAD IN TRIBAL GILLNET FISHERY.  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2008 | 8     | 14  | 8/14/2008  | HARBOR SEAL | SHOOTING                                | SKAGIT        | WA    | DEAD   | CARCASS; APPEARED TO BE SMALL CALIBER BULLET HOLE IN REAR LEFT LATERAL NECK REGION; DISCRETE 2-MM PUNCTURE HOLE OFF LEFT LATERAL NECK; MOUTH FULL OF CLOTTED BLOOD AND EXTENSIVE HEMORRHAGING IN INTERNAL NECK AREA AND BASE OF SKULL; NO BALLISTICS FOUND | DEAD   |                                      |                          |
| 2008 | 8     | 22  | 8/22/2008  | HARBOR SEAL | MARINE DEBRIS<br>ENTANGLEMENT           | PIERCE        | WA    | DEAD   | PUP WAS REMOVED FROM DERELICT NET  | DEAD   |                                      |                          |
| 2008 | 8     | 24  | 8/24/2008  | HARBOR SEAL | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | THURSTON      | WA    | SI   | LIVE ANIMAL CAUGHT IN TRIBAL GILL NETTING; NETS WERE TIGHT AROUND ITS NECK AND IT WAS STRUGGLING   | SI   | P8A                                  |                          |
| 2008 | 8     | 24  | 8/24/2008  | HARBOR SEAL | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | THURSTON      | WA    | DEAD   | CARCASS; CAUGHT IN TRIBAL FISHING GEAR   | DEAD   |                                      |                          |
| 2008 | 8     | 24  | 8/24/2008  | HARBOR SEAL | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | THURSTON      | WA    | DEAD   | CARCASS; CAUGHT IN TRIBAL FISHING GEAR SEAL PULLED OUT OF SET GILLNET THAT WAS UNATTENDED FOR AT LEAST 48 HRS  | DEAD   |                                      |                          |
| 2008 | 8     | 25  | 8/25/2008  | HARBOR SEAL | GILLNET FISHERY                         | PIERCE        | WA    | DEAD   | 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 28 AUG.  | DEAD   | P15                                  |                          |
| 2008 | 9     | 2   | 9/2/2008   | HARBOR SEAL | RESEARCH ENTANGLEMENT                   | SOLANO        | CA    | DEAD   | CARCASS RETRIEVED FROM CDFG STURGEON RESEARCH TRAMMEL NET  | DEAD   |                                      |                          |
| 2008 | 9     | 12  | 9/12/2008  | HARBOR SEAL | RESEARCH ENTANGLEMENT                   | PIERCE        | WA    | DEAD   | DIED IN RESEARCH NET   | DEAD   |                                      |                          |
| 2008 | 10    | 5   | 10/5/2008  | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2008 | 11    | 4   | 11/4/2008  | HARBOR SEAL | GILLNET FISHERY                         | ISLAND        | WA    | DEAD   | CAUGHT IN DRIFT GILLNET  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2008 | 11    | 20  | 11/20/2008 | HARBOR SEAL | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | PIERCE        | WA    | DEAD   | PULLED FROM TRIBAL NET   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2008 | 12    | 15  | 12/15/2008 | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 1     | 13  | 1/13/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 3     | 10  | 3/10/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 5     | 16  | 5/16/2009  | HARBOR SEAL | SALMON RESEARCH TRAWL                   | OFFSHORE      | WA    | NSI  | LIVE PUP IN TRAWL NET; PUP WAS ROLLED OUT OF NET AS NET WAS RETRIEVED; SWAM AWAY UNHARMED  | NSI  | P7B                                  |                          |
| 2009 | 5     | 16  | 5/16/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 5     | 17  | 5/17/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | LOS ANGELES   | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 5     | 22  | 5/22/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT                 | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species     | Interaction Type           | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-------------|----------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2009 | 6     | 16  | 6/16/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 7     | 4   | 7/4/2009   | HARBOR SEAL | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 7     | 5   | 7/5/2009   | HARBOR SEAL | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 7     | 20  | 7/20/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 2009 | 7     | 31  | 7/31/2009  | HARBOR SEAL | DOG ATTACK                 | PIERCE        | WA    | SI   | DOG GRABBED LIVE PUP AND TOOK OFF WITH IT  | DEAD   | P9                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 2009 | 8     | 10  | 8/10/2009  | HARBOR SEAL | GAFF INJURY                | KITSAP        | WA    | DEAD   | CARCASS; LEFT EYE PROPTOSED AND SWELLING ON LEFT SIDE OF HEAD; HOLE IN LEFT SIDE OF HEAD (SKIN AND SKULL) MOST LIKELY CAUSED BY GAFF; BLEEDING FROM NOSTRILS; SWELLING ON LEFT SIDE OF HEAD, CAUDAL SKULL FRACTURE, AND HEMATOMA | DEAD   |                                      |                          |
| 2009 | 8     | 18  | 8/18/2009  | HARBOR SEAL | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | CARCASS; BULLET HOLES IN THORAX; TREMENDOUS BRUISING ACROSS BACK; SMASHED NOSE   | DEAD   |                                      |                          |
| 2009 | 8     | 20  | 8/20/2009  | HARBOR SEAL | SHOOTING                   | CLATSOP       | WA    | DEAD   | CARCASS; FISH HOOK LODGED IN STOMACH ATTACHED TO LINE THROUGHOUT GI TRACT  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 9     | 21  | 9/21/2009  | HARBOR SEAL | VESSEL STRIKE              | WHATCOM       | WA    | DEAD   | LARGE LACERATIONS ON FOREFLIPPER   | DEAD   |                                      |                          |
| 2009 | 9     | 30  | 9/30/2009  | HARBOR SEAL | VESSEL STRIKE              | WHATCOM       | WA    | DEAD   | CARCASS; SLASHES, GASHES, AND MARKS ALONG SIDE AND BACK  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2009 | 10    | 6   | 10/6/2009  | HARBOR SEAL | HOOK & LINE FISHERY        | SAN MATEO     | CA    | DEAD   | DEAD STRANDING; FIELD EXAMINATION REVEALED FISH HOOK IN ESPOHAGUS; CARCASS EXAMINED BY CAS PERSONNEL   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2009 | 11    | 12  | 11/12/2009 | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT | 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   |                                      |                          |
| 2009 | 12    | 1   | 12/1/2009  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT | SAN JUAN      | WA    | DEAD   | ONE OF 2 ANIMALS CAUGHT IN DERELICT GILLNET. FRESH DEAD.   | DEAD   |                                      |                          |
| 2009 | 12    | 1   | 12/1/2009  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT | SAN JUAN      | WA    | DEAD   | ONE OF 2 ANIMALS CAUGHT IN DERELICT GILLNET. MODERATE DECOMPOSITION.   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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;  | DEAD   |                                      |                          |
| 2010 | 1     | 25  | 1/25/2010  | HARBOR SEAL | POWER PLANT ENTRAINMENT    | SAN DIEGO     | CA    | DEAD   | GASTRITIS  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 1     | 26  | 1/26/2010  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT | KITSAP        | WA    | DEAD   | DEAD SEAL FOUND IN DERELICT NET  | DEAD   |                                      |                          |
| 2010 | 2     | 19  | 2/19/2010  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT | KITSAP        | WA    | DEAD   | MUMMIFIED/SKELETAL SEAL FOUND IN DERELICT GILLNET  | DEAD   |                                      |                          |
| 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   |                                      |                          |

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|------|-------|-----|-----------|-------------|--|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 2010 | 3     | 18  | 3/18/2010 | HARBOR SEAL | POWER PLANT ENTRAINMENT                          | SAN DIEGO       | CA    | DEAD   | ENTRAINMENT  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 3     | 22  | 3/22/2010 | HARBOR SEAL | POWER PLANT ENTRAINMENT                          | SAN DIEGO       | CA    | NSI  | IMMEDIATELY RELEASED AT SITE   | NSI  | P9                                   |                          |
| 2010 | 3     | 22  | 3/22/2010 | HARBOR SEAL | POWER PLANT ENTRAINMENT                          | SAN DIEGO       | CA    | NSI  | IMMEDIATELY RELEASED AT SITE   | NSI  | P9                                   |                          |
| 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   |                                      |                          |
| 2010 | 3     | 30  | 3/30/2010 | HARBOR SEAL | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2010 | 4     | 9   | 4/9/2010  | HARBOR SEAL | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 2010 | 5     | 1   | 5/1/2010  | HARBOR SEAL | HOOK & LINE FISHERY                              | GRAYS HARBOR    | WA    | DEAD   | CARCASS; FISH HOOK AT BASE OF STOMACH  | DEAD   |                                      |                          |
| 2010 | 6     | 5   | 6/5/2010  | HARBOR SEAL | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 7     | 25  | 7/25/2010 | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT/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                                  |                          |
| 2010 | 8     | 2   | 8/2/2010  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT                       | SAN JUAN        | WA    | DEAD   | CARCASS FOUND IN DERELICT GILLNET  | DEAD   |                                      |                          |
| 2010 | 8     | 16  | 8/16/2010 | HARBOR SEAL | VESSEL STRIKE                                    | SAN JUAN        | WA    | DEAD   | CARCASS; OBVIOUS PROP WOUNDS ON FACE AND UPPER BODY, INCLUDING 3-CM LACERATION ON LEFT VENTRAL NECK AREA, 3.5 CM DEEP; MANDIBLE HAD 8.5-CM LACERATIONS THROUGH LOWER MANDIBLE, ACROSS ROSTRUM, AND INTO UPPER PALLET                               | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 8     | 24  | 8/24/2010 | HARBOR SEAL | UNIDENTIFIED NET FISHERY ENTANGLEMENT            | WHATCOM         | WA    | DEAD   | CARCASS; PUP FOUND DEAD IN FISHING NET WITH FRESH BLOOD COMING FROM NOSE AND MOUTH; DROWNED  | DEAD   |                                      |                          |
| 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                                   |                          |

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| Year | Month | Day | Date       | Species     | Interaction Type                 | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-------------|----------------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                  |                          |
| 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                                   |                          |
| 2010 | 9     | 7   | 9/7/2010   | HARBOR SEAL | SHOOTING                         | WHATCOM       | WA    | DEAD   | CARCASS; PROBE PASSED EASILY INTO HEAD WOUND, THROUGH SKULL, AND OUT EXIT WOUND  | DEAD   |                                      |                          |
| 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                                  |                          |
| 2010 | 9     | 28  | 9/28/2010  | HARBOR SEAL | SHOOTING                         | PACIFIC       | WA    | DEAD   | CARCASS; BULLET RETRIEVED FROM LEFT SIDE OF BACK OF SKULL, PROBABLE EXIT WOUND; ENTRY WOUND THROUGH RIGHT EYE  | DEAD   |                                      |                          |
| 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 DIAMETER, WITH ASSOCIATED TREMENDOUS HEMORRHAGE, CLOTTED BLOOD, AND BROKEN BONES (E.G. BULLA AND MASTOID PROCESS); EUTHANIZED AT SITE  | DEAD   | P9                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 2011 | 3     | 22  | 3/22/2011  | HARBOR SEAL | MARINE DEBRIS ENTANGLEMENT       | KITSAP        | WA    | SI   | ANIMAL WITH ROPE OR LINE AROUND NECK AND TOP OF HEAD REPORTED IN OR NEAR POULSBO HARBOR  | SI   | P8A                                  |                          |
| 2011 | 4     | 2   | 4/2/2011   | HARBOR SEAL | POWER PLANT ENTRAINMENT          | SAN DIEGO     | CA    | DEAD   | SAN ONOFRE POWER PLANT ENTRAINMENT   | DEAD   |                                      |                          |
| 2011 | 4     | 21  | 4/21/2011  | HARBOR SEAL | POWER PLANT ENTRAINMENT          | SAN DIEGO     | CA    | NSI  | ENTRAINED ANIMAL CAPTURED AND RELEASED   | NSI  | P9                                   |                          |
| 2011 | 4     | 25  | 4/25/2011  | HARBOR SEAL | SHOOTING                         | MARIN         | CA    | DEAD   | NECROPSY PERFORMED   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                   |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species     | Interaction Type                        | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-------------|---|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2011 | 7     | 9   | 7/9/2011   | HARBOR SEAL | VESSEL STRIKE                           | CLATSOP       | OR    | DEAD   | CARCASS; PROPELLER CUTS AT LEFT AXILLA AND LEFT ANKLE; TREMENDOUS HEMORRHAGING AROUND NECK, PROPELLER CUTS, AND PELVIC AREA  | DEAD   |                                      |                          |
| 2011 | 7     | 15  | 7/15/2011  | HARBOR SEAL | HOOK & LINE FISHERY                     | WHATCOM       | WA    | DEAD   | CARCASS FOUND WITH HOOK THROUGH LIP  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2011 | 8     | 1   | 8/1/2011   | HARBOR SEAL | DOG ATTACK                              | LINCOLN       | OR    | SI   | LIVE PUP REPORTEDLY ATTACKED BY THREE DOGS   | DEAD   | P9                                   |                          |
| 2011 | 8     | 1   | 8/1/2011   | HARBOR SEAL | RESEARCH SCIENTIFIC<br>LONGLINE         | TILLAMOOK     | OR    | DEAD   | CARCASS; CAUGHT ON HOOK OF IPHC (INTERNATIONAL PACIFIC HALIBUT COMMISSION) LONGLINE GEAR   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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 BLEED OUT   | DEAD   |                                      |                          |
| 2011 | 9     | 5   | 9/5/2011   | HARBOR SEAL | HOOK & LINE FISHERY                     | KING          | WA    | NSI  | LIVE STRANDING; FISH HOOK IN FACE  | NSI  | P5B                                  |                          |
| 2011 | 9     | 8   | 9/8/2011   | HARBOR SEAL | SHOOTING                                | ISLAND        | WA    | DEAD   | CARCASS; 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 FRAGMENT'S FOUND  | DEAD   |                                      |                          |
| 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                                   |                          |
| 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; ANIMAL SHOT AND EVIDENCE OF BLUNT-FORCE TRAUMA TO HEAD   | DEAD   |                                      |                          |
| 2011 | 9     | 14  | 9/14/2011  | HARBOR SEAL | UNIDENTIFIED FISHERY<br>INTERACTION     | SAN JUAN      | WA    | SI   | LIVE ANIMAL; PHOTO SHOWED PUP HAD SOME FISHING GEAR ATTACHED TO ITS REAR FLIPPERS; ANIMAL NEVER LOCATED SO UNABLE TO EXAMINE   | SI   | P6                                   |                          |
| 2011 | 9     | 19  | 9/19/2011  | HARBOR SEAL | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY | KING          | WA    | NSI  | LIVE ENTANGLEMENT IN TRIBAL FISHING NET; ANIMAL DISENTANGLED AND RELEASED  | NSI  | P7B                                  |                          |
| 2011 | 9     | 23  | 9/23/2011  | HARBOR SEAL | PACIFIC WHITING TRAWL<br>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   |                                      |                          |
| 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                                   |                          |
| 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   |                                      |                          |
| 2011 | 10    | 14  | 10/14/2011 | HARBOR SEAL | GILLNET FISHERY                         | SAN DIEGO     | CA    | SI   | ADULT HARBOR SEAL WITH FISHING NET DEEPLY CUTTING INTO NECK, BAR.  | SI   | P8A                                  |                          |
| 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                                   |                          |
| 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   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species        | Interaction Type                           | County/Locale       | STATE          | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|----------------|--|---------------------|----------------|--|--|--|--------------------------------------|--------------------------|
| 2011 | 10    | 30  | 10/30/2011 | HARBOR SEAL    | GILLNET FISHERY                            | GRAYS HARBOR        | WA             | DEAD   | CARCASS; ENTANGLED IN MONOFILAMENT NET; CIRCULAR HOLE ON DORSAL LEFT SIDE OF THORACIC AREA (LIKELY GAFF RATHER THAN BULLET HOLE) WITH ABDOMEN CUT OPEN   | DEAD   |                                      |                          |
| 2011 | 11    | 1   | 11/1/2011  | HARBOR SEAL    | GILLNET FISHERY                            | GRAYS HARBOR        | WA             | DEAD   | CARCASS; ENTANGLED IN ~36-FT MONOFILAMENT NET WITH LEAD LINE ATTACHED AND TWINE THAT WAS USED TO REPAIR HOLES IN NET; ACTIVE TRIBAL FISHERY AREA   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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                                   |                          |
| 2011 | 11    | 20  | 11/20/2011 | HARBOR SEAL    | GILLNET ENTANGLEMENT:<br>TRIBAL FISHERY    | UNKNOWN             | WA             | DEAD   | REPORTED TO NOAA BY TRIBE AS KILLED IN GILLNET   | DEAD   |                                      |                          |
| 2007 | 5     | 9   | 5/9/2007   | HUMPBACK WHALE | VESSEL STRIKE                              | SACRAMENTO          | CA             | SI   | THE CALF'S WOUND IS A LATERAL (ON ITS SIDE) LACERATION THAT IS ABOUT 2/3 OF THE WAY DOWN THE BODY. IT HAS ONLY BEEN SEEN INFREQUENTLY, BECAUSE THAT PART OF THE ANIMAL TYPICALLY REMAINS UNDERWATER, EXCEPT WHEN THE ANIMAL STRONGLY ARCHES ITS BACK. THIS CUT APPEARS TO BE DEEPER, AND IS BELIEVED TO EXTEND INTO THE MUSCLE LAYER AND MAY BE BLEEDING.          | SI   | L11                                  | 0.52                     |
| 2007 | 5     | 9   | 5/9/2007   | HUMPBACK WHALE | VESSEL STRIKE                              | SACRAMENTO          | CA             | NSI  | THE ADULT COW HAS A STRAIGHT LACERATION ON HER DORSAL SURFACE THAT IS ESTIMATED TO BE 2-3' LONG AND 6" DEEP. THE CUT DOES NOT EXTEND INTO THE MUSCLE LAYER, AND NO BLOOD HAS BEEN SEEN FROM THIS WOUND. A SECOND SUPERFICIAL CUT CAN BE SEEN JUST BEFORE THE DORSAL FIN. VETERINARIANS DO NOT BELIEVE THAT THIS ANIMAL IS IN ANY IMMEDIATE DANGER FROM THIS WOUND. | NSI  | L5B                                  | 0                        |
| 2007 | 5     | 10  | 5/10/2007  | HUMPBACK WHALE | GILLNET FISHERY                            | ORANGE              | CA             | SI   | FREE-SWIMMING ANIMAL WITH PINK MONOFILAMENT GILLNET DRAPED OVER BACK; ANIMAL RESIGHTED OFF PALOS VERDES BAY CLUB LATER IN DAY; NO RESCUE EFFORT INITIATED; FINAL STATUS UNKNOWN, NET IDENTIFIED AS HALIBUT SET GILLNET GEAR FROM PHOTOS.   | SI   | L10                                  | 0.75                     |
| 2007 | 7     | 10  | 7/10/2007  | HUMPBACK WHALE | LOBSTER TRAP<br>ENTANGLEMENT               | ORANGE              | CA             | SI   | FREE-SWIMMING ANIMAL TOWING LOBSTER TRAP GEAR; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS; FINAL STATUS UNKNOWN  | SI   | L10                                  | 0.75                     |
| 2007 | 8     | 16  | 8/16/2007  | HUMPBACK WHALE | CRAB POT FISHERY<br>ENTANGLEMENT           | LINCOLN             | OR             | SI   | LIVE HUMPBACK SIGHTED WITH CRAB GEAR WRAPPED AROUND RIGHT PECTORAL FLIPPER; OSU ATTEMPTS TO DISENTANGLE WHALE FAILED AS IT WAS TOO ACTIVE TO APPROACH CLOSELY ENOUGH.  | SI   | L10                                  | 0.75                     |
| 2007 | 10    | 13  | 10/13/2007 | HUMPBACK WHALE | VESSEL STRIKE                              | MARIN               | CA             | DEAD   | CARCASS; FRACTURED SKULL   | DEAD   |                                      |                          |
| 2007 | 10    | 16  | 10/16/2007 | HUMPBACK WHALE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT   | SAN MATEO           | CA             | SI (PRORATE)   | FREE-SWIMMING ANIMAL; YELLOW ROPE WRAPPED AROUND TAIL STOCK; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS; FINAL STATUS UNKNOWN  | SI (PRORATE)   | L10                                  | 0.75                     |
| 2007 | 10    | 29  | 10/29/2007 | HUMPBACK WHALE | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT   | SAN FRANCISCO       | CA             | SI   | FREE-SWIMMING ANIMAL WITH 3 INDIVIDUAL ROPES DRAPED ACROSS DORSAL FIN & EXTENDING TO & AROUND FLUKES; ROPES = 0.5 INCHES IN DIAMETER, TWISTED; 3-STRAND, BLUE-GREEN IN COLOR; LINE LENGTH IN EXCESS OF 100 FEET; MULTIPLE LOOPS, SEVERAL BALLS OF ROPE (RATS-NEST-LIKE); NO RESCUE EFFORT INITIATED; NO RESIGHTINGS; FINAL STATUS UNKNOWN                          | SI   | L2                                   | 1                        |
| 2008 | 5     | 10  | 5/10/2008  | HUMPBACK WHALE | DUNGENESS CRAB POT<br>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<br>ISLAND | B.C.<br>CANADA | SI (PRORATE)   | DRAGGER STRUCK WHALE IN THE FOG. SNAPPED STABILIZER ON BOAT.   | SI (PRORATE)   | L12                                  | 0.36                     |

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|------|-------|-----|-----------|----------------|---|---------------------|-------------------------|--|---|--|--------------------------------------|--------------------------|
| 2008 | 5     | 31  | 5/31/2008 | HUMPBACK WHALE | CRAB POT FISHERY<br>ENTANGLEMENT                          | VANCOUVER<br>ISLAND | BRITISH<br>COLUMBI<br>A | 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   |                                      |                          |
| 2008 | 7     | 5   | 7/5/2008  | HUMPBACK WHALE | CRAB POT FISHERY<br>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<br>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<br>ENTANGLEMENT/VESSEL<br>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<br>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<br>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   |                                      |                          |
| 2009 | 10    | 1   | 10/1/2009 | HUMPBACK WHALE | UNIDENTIFIED NET FISHERY<br>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<br>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<br>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                     |
| 2010 | 7     | 25  | 7/25/2010 | HUMPBACK WHALE | VESSEL STRIKE   | MARIN               | CA                      | DEAD   | CARCASS OBSERVED FLOATING; PROPELLER WOUNDS OBSERVED  | DEAD   |                                      |                          |

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| Year | Month | Day | Date      | Species                       | Interaction Type                              | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|-------------------------------|---|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2010 | 8     | 2   | 8/2/2010  | HUMPBACK WHALE                | UNIDENTIFIED FISHERY<br>INTERACTION           | MONTEREY      | CA    | SI   | GREEN ROPES WRAPPED AROUND MID-SECTION, CUTTING INTO SKIN ON RIGHT SIDE; SIGHTING ORIGINALLY REPORTED BY LOCAL DIVE BOAT OPERATOR   | SI   | L2                                   | 1                        |
| 2010 | 8     | 16  | 8/16/2010 | HUMPBACK WHALE                | CRAB POT FISHERY<br>ENTANGLEMENT              | LINCOLN       | OR    | DEAD   | MULTIPLE CRAB BUOYS ATTACHED TO ITS TAIL AND IT APPEARED TO BE ANCHORED BY THEM. CARCASS PHOTOGRAPHED   | DEAD   |                                      |                          |
| 2010 | 8     | 17  | 8/17/2010 | HUMPBACK WHALE                | CRAB POT FISHERY<br>ENTANGLEMENT              | MENDOCINO     | CA    | SI   | LINE & BUOY'S 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<br>INTERACTION           | HUMBOLDT      | CA    | SI   | 3 GREEN ROPES WRAPPED AROUND MID-BODY. ANIMAL DIVING AND BREACHING  | SI (PRORATE)   | L10                                  | 0.75                     |
| 2010 | 8     | 24  | 8/24/2010 | HUMPBACK WHALE                | UNIDENTIFIED FISHERY<br>INTERACTION           | MONTEREY      | CA    | SI   | 10 FEET OF RED ROPE TRAILING FROM FLUKES  | SI (PRORATE)   | L10                                  | 0.75                     |
| 2010 | 8     | 31  | 8/31/2010 | HUMPBACK WHALE                | CRAB POT FISHERY<br>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.   | DEAD   |                                      |                          |
| 2011 | 5     | 8   | 5/8/2011  | HUMPBACK WHALE                | VESSEL STRIKE                                 | LOS ANGELES   | CA    | DEAD   | 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   |                                      |                          |
| 2011 | 5     | 10  | 5/10/2011 | HUMPBACK WHALE                | UNIDENTIFIED POT/TRAP<br>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<br>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<br>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                        |
| 2011 | 8     | 25  | 8/25/2011 | HUMPBACK WHALE                | CRAB POT FISHERY<br>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<br>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                     |
| 2007 | 5     | 28  | 5/28/2007 | LONG-BEAKED COMMON<br>DOLPHIN | UNIDENTIFIED NET FISHERY<br>ENTANGLEMENT      | SAN DIEGO     | CA    | DEAD   | CARCASS; LACERATION AT VENTRAL INSERTION OF FLUKE; STRAIGHT LINE MARKS ON PECTORAL FIN  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species                    | Interaction Type                      | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|----------------------------|---------------------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 5     | 30  | 5/30/2007  | LONG-BEAKED COMMON DOLPHIN | SHOOTING                              | SAN DIEGO     | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD, BULLET RECOVERED FROM HEAD   | DEAD   |                                      |                          |
| 2007 | 5     | 31  | 5/31/2007  | LONG-BEAKED COMMON DOLPHIN | SHOOTING                              | SAN DIEGO     | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD; 3 CENTIMETER LONG STRAIGHT CUTS IN BLUBBER ALONG ABDOMEN IN VARIOUS ORIENTATIONS; VERTICAL LACERATIONS ALONG TAIL STOCK  | DEAD   |                                      |                          |
| 2007 | 6     | 2   | 6/2/2007   | LONG-BEAKED COMMON DOLPHIN | SHOOTING                              | SAN DIEGO     | CA    | DEAD   | CARCASS; MULTIPLE GUNSHOT WOUNDS; BULLET EXTRACTED FROM MUSCLE TISSUE POSTERIOR TO BASE OF SKULL; 1.5 CENTIMETER HOLE IN SUPRACCCIPITAL BONE, BONE CRACKED IN REGION ABOVE HOLE  | DEAD   |                                      |                          |
| 2007 | 6     | 5   | 6/5/2007   | LONG-BEAKED COMMON DOLPHIN | SHOOTING                              | SAN DIEGO     | CA    | DEAD   | CARCASS; 2 GUNSHOT WOUNDS TO DORSUM; 1 BULLET LODGED IN BLUBBER/MUSCLE INTERFACE NEAR HYOID COMPLEX, APPROXIMATELY 15 CENTIMETERS VENTRAL & DIAGONAL TO CRANIAL BULLET WOUND   | DEAD   |                                      |                          |
| 2007 | 9     | 26  | 9/26/2007  | LONG-BEAKED COMMON DOLPHIN | SHOOTING                              | VENTURA       | CA    | DEAD   | CARCASS; 1 CENTIMETER GUNSHOT ENTRY WOUND IN RIGHT SIDE OF CAUDAL PEDUNCLE; 3-4 LUMBAR VERTEBRAE WITH BROKEN LATERAL PROCESSES; HEAVILY DAMAGED LIVER; LACERATED RIGHT LUNG  | DEAD   |                                      |                          |
| 2007 | 11    | 24  | 11/24/2007 | LONG-BEAKED COMMON DOLPHIN | UNIDENTIFIED NET FISHERY ENTANGLEMENT | SAN DIEGO     | CA    | DEAD   | CARCASS; GOOD BODY CONDITION; FULL STOMACH; ROPE MARKS AROUND CAUDAL PEDUNCLE  | DEAD   |                                      |                          |
| 2007 | 12    | 21  | 12/21/2007 | LONG-BEAKED COMMON DOLPHIN | UNIDENTIFIED NET FISHERY ENTANGLEMENT | SAN DIEGO     | CA    | DEAD   | CARCASS; LINE IMPRESSION FROM MULTI-FILAMENT LINE AROUND BODY AT ANTERIOR INSERTION POINT OF DORSAL & PECTORAL FINS & AROUND ROSTRUM; FROTH IN LUNGS   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2008 | 6     | 14  | 6/14/2008  | LONG-BEAKED COMMON DOLPHIN | UNIDENTIFIED NET FISHERY ENTANGLEMENT | VENTURA       | CA    | DEAD   | CARCASS; FLUKES CLEANLY CUT OFF  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2008 | 11    | 7   | 11/7/2008  | LONG-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 1     | 18  | 1/18/2010  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                       | LOS ANGELES   | CA    | DEAD   | FLUKES CUT OFF   | DEAD   |                                      |                          |
| 2010 | 1     | 20  | 1/20/2010  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                       | LOS ANGELES   | CA    | DEAD   | MISSING FLUKE, CUT OFF, POSSIBLY POST-MORTEM   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 2     | 19  | 2/19/2010  | LONG-BEAKED COMMON DOLPHIN | UNIDENTIFIED FISHERY INTERACTION      | LOS ANGELES   | CA    | DEAD   | FLUKE MISSING  | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species                    | Interaction Type                                 | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|----------------------------|--|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2010 | 4     | 16  | 4/16/2010  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                                  | SAN DIEGO       | CA    | DEAD   | TAIL STOCK CUT OFF   | DEAD   |                                      |                          |
| 2010 | 6     | 21  | 6/21/2010  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                                  | VENTURA         | CA    | DEAD   | PEDUNCLE CLEANLY CUT   | DEAD   |                                      |                          |
| 2010 | 7     | 17  | 7/17/2010  | LONG-BEAKED COMMON DOLPHIN | KNIFE WOUNDS                                     | VENTURA         | CA    | DEAD   | SEVERAL KNIFE SLASHES ON BODY  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2010 | 9     | 5   | 9/5/2010   | LONG-BEAKED COMMON DOLPHIN | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2010 | 11    | 19  | 11/19/2010 | LONG-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY               | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2011 | 3     | 4   | 3/4/2011   | LONG-BEAKED COMMON DOLPHIN | UNDERWATER DETONATION EXERCISES                  | SAN DIEGO       | CA    | DEAD   | SEE DANIL AND ST LEGER 2011  | DEAD   |                                      |                          |
| 2011 | 3     | 4   | 3/4/2011   | LONG-BEAKED COMMON DOLPHIN | UNDERWATER DETONATION EXERCISES                  | SAN DIEGO       | CA    | DEAD   | SEE DANIL AND ST LEGER 2011  | DEAD   |                                      |                          |
| 2011 | 3     | 4   | 3/4/2011   | LONG-BEAKED COMMON DOLPHIN | UNDERWATER DETONATION EXERCISES                  | SAN DIEGO       | CA    | DEAD   | SEE DANIL AND ST LEGER 2011  | DEAD   |                                      |                          |
| 2011 | 3     | 7   | 3/7/2011   | LONG-BEAKED COMMON DOLPHIN | UNDERWATER DETONATION EXERCISES                  | SAN DIEGO       | CA    | DEAD   | SEE DANIL AND ST LEGER 2011  | DEAD   |                                      |                          |
| 2011 | 4     | 10  | 4/10/2011  | LONG-BEAKED COMMON DOLPHIN | MARINE DEBRIS INGESTION                          | SAN DIEGO       | CA    | DEAD   | CHEETOS BAG LODGED IN ESOPHAGUS  | DEAD   |                                      |                          |
| 2011 | 5     | 12  | 5/12/2011  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                                  | ORANGE          | CA    | DEAD   | ENTANGLED IN 8.5 INCH MESH NET   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2011 | 7     | 14  | 7/14/2011  | LONG-BEAKED COMMON DOLPHIN | UNIDENTIFIED FISHERY INTERACTION                 | VENTURA         | CA    | DEAD   | CUT HALF WAY THROUGH DORSAL FIN  | DEAD   |                                      |                          |
| 2011 | 7     | 23  | 7/23/2011  | LONG-BEAKED COMMON DOLPHIN | UNIDENTIFIED FISHERY INTERACTION                 | VENTURA         | CA    | DEAD   | RED ROPE TIED AROUND BASE OF FLUKE   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2011 | 9     | 17  | 9/17/2011  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                                  | VENTURA         | CA    | DEAD   | FLUKES CLEANLY CUT OFF   | DEAD   |                                      |                          |
| 2011 | 9     | 28  | 9/28/2011  | LONG-BEAKED COMMON DOLPHIN | GILLNET FISHERY                                  | VENTURA         | CA    | DEAD   | FLUKES CLEANLY CUT OFF   | DEAD   |                                      |                          |
| 2011 | 11    | 4   | 11/4/2011  | LONG-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY               | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2010 | 4     | 17  | 4/17/2010  | MINKE WHALE                | GILLNET FISHERY                                  | MONTEREY        | CA    | SI (PRORATE)   | ROPE & NETTING AROUND HEAD AREA  | SI (PRORATE)   | L10                                  | 0.75                     |
| 2011 | 12    | 18  | 12/18/2011 | MINKE WHALE                | CA SWORDFISH DRIFT GILLNET FISHERY               | OFFSHORE        | CA    | NSI  | ANIMAL DISENTANGLED AND RELEASED WITHOUT TRAILING GEAR.  | NSI  | L3                                   |                          |
| 2007 | 1     | 28  | 1/28/2007  | NORTHERN ELEPHANT SEAL     | MARINE DEBRIS ENTANGLEMENT                       | SAN LUIS OBISPO | CA    | SI   | LIVE STRANDING; RED PACKING STRAP CUTTING DEEP INTO NECK; ANIMAL HAULED OUT ON NORTHERN ELEPHANT SEAL ROOKERY IN VICINITY OF OTHER ANIMALS; FINAL STATUS UNKNOWN   | SI   | P8A                                  |                          |
| 2007 | 3     | 27  | 3/27/2007  | NORTHERN ELEPHANT SEAL     | SHOOTING   | CLALLAM         | WA    | DEAD   | ANIMAL APPEARED TO HAVE BEEN SHOT IN RIGHT SIDE OF HEAD  | DEAD   |                                      |                          |
| 2007 | 6     | 2   | 6/2/2007   | NORTHERN ELEPHANT SEAL     | MARINE DEBRIS ENTANGLEMENT                       | LOS ANGELES     | CA    | SI   | LIVE STRANDING; PLASTIC FRAGMENTS AROUND HEAD & NECK; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P7B                                  |                          |
| 2007 | 6     | 13  | 6/13/2007  | NORTHERN ELEPHANT SEAL     | HOOK & LINE FISHERY                              | LOS ANGELES     | CA    | SI   | LIVE STRANDING; FISH HOOK IN ESOPHAGUS, ATTACHED FISHING LINE DOWN THROAT; MORTALITY (ANIMAL DIED IN REHAB, CAUSE OF DEATH = HEAVY GASTRIC AND PULMONARY PARASITISM)   | DEAD   | P2                                   |                          |
| 2007 | 7     | 13  | 7/13/2007  | NORTHERN ELEPHANT SEAL     | ENTRAPMENT                                       | VENTURA         | CA    | DEAD   | CARCASS DISCOVERED UNDER INVERTED TRASH CAN; IT IS BELIEVED THAT THE ANIMAL HAULED OUT ALIVE THE PREVIOUS EVENING & THAT A PRIVATE CITIZEN PLACED THE INVERTED TRASH CAN OVER THE ANIMAL; CAUSE OF DEATH = SUFFOCATION OR HEAT PROSTRATION | DEAD   |                                      |                          |
| 2007 | 10    | 26  | 10/26/2007 | NORTHERN ELEPHANT SEAL     | CA SWORDFISH DRIFT GILLNET FISHERY               | OFFSHORE        | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |

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| Year | Month | Day | Date       | Species                | Interaction Type           | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|------------------------|----------------------------|-----------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2007 | 11    | 15  | 11/15/2007 | NORTHERN ELEPHANT SEAL | STAB WOUNDS                | DEL NORTE       | CA    | SI   | LIVE STRANDING; ANIMAL HAULED OUT IN HARBOR, STABBED IN LEFT EYE WITH SHARP OBJECT BY UNKNOWN PERSON ON 10TH DAY OF HAULOUT; MORTALITY (ANIMAL DIED IN REHAB FROM COMPLICATIONS FROM EYE INJURY)  | DEAD   | P9                                   |                          |
| 2007 | 12    | 20  | 12/20/2007 | NORTHERN ELEPHANT SEAL | CAR COLLISION              | SAN MATEO       | CA    | DEAD   | CARCASS REMOVED FROM SHOULDER OF HIGHWAY 1; NECROPSY REVEALED INTERNAL INJURIES CONSISTENT WITH CAR COLLISION   | DEAD   |                                      |                          |
| 2007 | 12    | 30  | 12/30/2007 | NORTHERN ELEPHANT SEAL | MARINE DEBRIS ENTANGLEMENT | SAN LUIS OBISPO | CA    | SI   | LIVE STRANDING; SUBADULT ANIMAL HAULED OUT ON ELEPHANT SEAL ROOKERY; SINGLE LOOP OF 3- STRAND ROPE EMBEDDED IN NECK; NO RESCUE INITIATED; FINAL STATUS OF ANIMAL UNKNOWN  | SI   | P8A                                  |                          |
| 2007 | 12    | 31  | 12/31/2007 | NORTHERN ELEPHANT SEAL | CAR COLLISION              | SAN LUIS OBISPO | CA    | DEAD   | CARCASS REMOVED FROM HIGHWAY 1 BY CALTRANS PERSONNEL; SUSPECTED CAR COLLISION   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2008 | 5     | 3   | 5/3/2008   | NORTHERN ELEPHANT SEAL | SHOOTING                   | SAN LUIS OBISPO | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 2008 | 5     | 3   | 5/3/2008   | NORTHERN ELEPHANT SEAL | SHOOTING                   | SAN LUIS OBISPO | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 2008 | 5     | 3   | 5/3/2008   | NORTHERN ELEPHANT SEAL | SHOOTING                   | SAN LUIS OBISPO | CA    | DEAD   | CARCASS; GUNSHOT WOUND TO HEAD  | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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   |                                      |                          |
| 2008 | 7     | 17  | 7/17/2008  | NORTHERN ELEPHANT SEAL | MARINE DEBRIS ENTANGLEMENT | SAN DIEGO       | CA    | DEAD   | CARCASS; ROPE TIGHTLY WOUND AROUND NECK   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species                | Interaction Type  | County/Locale   | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|------------------------|---|-----------------|-------|--|--|--|--------------------------------------|--------------------------|
| 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                                   |                          |
| 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   |                                      |                          |
| 2009 | 5     | 16  | 5/16/2009  | NORTHERN ELEPHANT SEAL | POWER PLANT ENTRAINMENT                                       | VENTURA         | CA    | DEAD   | CARCASS FLOATING IN POWER PLANT INTAKE CHANNEL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                  |                          |
| 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                                   |                          |
| 2010 | 2     | 2   | 2/2/2010   | NORTHERN ELEPHANT SEAL | SHOOTING  | PACIFIC         | WA    | DEAD   | BULLET FOUND IN BRAIN CAVITY   | DEAD   |                                      |                          |
| 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   | NSI  | P14                                  |                          |
| 2010 | 3     | 31  | 3/31/2010  | NORTHERN ELEPHANT SEAL | POWER PLANT ENTRAINMENT                                       | VENTURA         | CA    | DEAD   | FOUND IN POWER STATION'S INTAKE TAKE   | DEAD   |                                      |                          |
| 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                                   |                          |
| 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                                  |                          |
| 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                                  |                          |
| 2011 | 4     | 3   | 4/3/2011   | NORTHERN ELEPHANT SEAL | RESEARCH  | SAN MATEO       | CA    | DEAD   | RESEARCH ANIMAL DIED UNDER ANAESTHESIA   | DEAD   |                                      |                          |
| 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                                   |                          |

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| Year | Month | Day | Date       | Species                      | Interaction Type  | County/Locale          | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|------------------------------|---|------------------------|-------|--|---|--|--------------------------------------|--------------------------|
| 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                              |                          |
| 2007 | 4     | 28  | 4/28/2007  | NORTHERN FUR SEAL            | SCIENTIFIC RESEARCH TRAWL                                 | MONTEREY               | CA    | DEAD   | CARCASS; SCIENTIFIC SARDINE SURFACE TRAWL ENTANGLEMENT  | DEAD   |                                      |                          |
| 2007 | 8     | 9   | 8/9/2007   | NORTHERN FUR SEAL            | SHOOTING  | SONOMA                 | CA    | SI   | LIVE STRANDING; GUNSHOT WOUND TO RIGHT SIDE OF HEAD, BULLET FRAGMENTS RECOVERED; ANIMAL EUTHANIZED IN REHAB   | DEAD   | P9                                   |                          |
| 2007 | 11    | 9   | 11/9/2007  | NORTHERN FUR SEAL            | HOOK & LINE FISHERY                                       | SAN JOAQUIN            | CA    | NSI  | LIVE STRANDING; FISHING LURE IN UPPER LIP; ANIMAL TAKEN INTO REHAB, TREATED, AND RELEASED   | NSI  | P5B                                  |                          |
| 2007 | 11    | 9   | 11/9/2007  | NORTHERN FUR SEAL            | HOOK & LINE FISHERY                                       | SAN JOAQUIN            | CA    | NSI  | LIVE STRANDING; FISHING LURE IN UPPER LIP; NON-FATAL INJURY (ANIMAL TAKEN INTO REHAB, TREATED & RELEASED)   | NSI  | P5B                                  |                          |
| 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   |                                      |                          |
| 2008 | 6     | 11  | 6/11/2008  | NORTHERN FUR SEAL            | MARINE DEBRIS ENTANGLEMENT                                | 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                                  |                          |
| 2008 | 7     | 9   | 7/9/2008   | NORTHERN FUR SEAL            | MARINE DEBRIS ENTANGLEMENT                                | LOS ANGELES            | CA    | DEAD   | CARCASS; PLASTIC BAND AROUND NECK   | DEAD   |                                      |                          |
| 2008 | 7     | 31  | 7/31/2008  | NORTHERN FUR SEAL            | SCIENTIFIC RESEARCH TRAWL                                 | MENDOCINO              | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 8     | 2   | 8/2/2008   | NORTHERN FUR SEAL            | SCIENTIFIC RESEARCH TRAWL                                 | SAN FRANCISCO          | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 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                                  |                          |
| 2009 | 2     | 1   | 2/1/2009   | NORTHERN FUR SEAL            | UNIDENTIFIED NET FISHERY ENTANGLEMENT                     | CLATSOP                | OR    | DEAD   | CARCASS; NET ENTANGLEMENT; EMACIATED, HEAVY BRUISING ON VENTRAL THORAX AND ABDOMEN  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2009 | 5     | 25  | 5/25/2009  | NORTHERN FUR SEAL            | SCIENTIFIC RESEARCH TRAWL                                 | UNKNOWN                | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2011 | 4     | 8   | 4/8/2011   | NORTHERN FUR SEAL            | MARINE DEBRIS ENTANGLEMENT/TRAWL NET FISHERY ENTANGLEMENT | LINCOLN                | OR    | DEAD   | CARCASS; PLASTIC PACKING BAND CUTTING INTO NECK; OBVIOUS DAMAGE TO SKIN, BLUBBER, AND MUSCLE; ENTANGLED IN GREENISH TRAWL NET   | DEAD   |                                      |                          |
| 2011 | 6     | 22  | 6/22/2011  | NORTHERN FUR SEAL            | UNIDENTIFIED TRAWL FISHERY/MARINE DEBRIS ENTANGLEMENT     | 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   |                                      |                          |
| 2007 | 12    | 14  | 12/14/2007 | NORTHERN RIGHT WHALE DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                        | OFFSHORE               | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2008 | 8     | 8   | 8/8/2008   | NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                                 | OFFSHORE               | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 8     | 8   | 8/8/2008   | NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                                 | OFFSHORE               | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 8     | 8   | 8/8/2008   | NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                                 | OFFSHORE               | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 8     | 8   | 8/8/2008   | NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                                 | OFFSHORE               | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 8     | 8   | 8/8/2008   | NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                                 | OFFSHORE               | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 8     | 8   | 8/8/2008   | NORTHERN RIGHT WHALE DOLPHIN | SCIENTIFIC RESEARCH TRAWL                                 | OFFSHORE               | CA    | DEAD   | CARCASS RETRIEVED FROM NMFS SCIENTIFIC RESEARCH TRAWL   | DEAD   |                                      |                          |
| 2008 | 12    | 8   | 12/8/2008  | NORTHERN RIGHT WHALE DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                        | OFFSHORE               | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |
| 2010 | 12    | 6   | 12/6/2010  | NORTHERN RIGHT WHALE DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                        | OFFSHORE               | CA    | DEAD   | OBSERVER PROGRAM  | DEAD   |                                      |                          |



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| Year | Month | Day | Date       | Species                     | Interaction Type                                    | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-----------------------------|---|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2009 | 10    | 7   | 10/7/2009  | PACIFIC WHITE-SIDED DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2009 | 10    | 7   | 10/7/2009  | PACIFIC WHITE-SIDED DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2010 | 4     | 18  | 4/18/2010  | PACIFIC WHITE-SIDED DOLPHIN | SCIENTIFIC RESEARCH TRAWL                           | MONTEREY      | CA    | SI   | ANIMAL CAUGHT IN RESEARCH TRAWL, RELEASED AT SEA   | SI   | S4                                   |                          |
| 2010 | 4     | 25  | 4/25/2010  | PACIFIC WHITE-SIDED DOLPHIN | SCIENTIFIC RESEARCH TRAWL                           | OFFSHORE      | CA    | DEAD   | ANIMAL CAUGHT IN RESEARCH TRAWL, RELEASED AT SEA   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2007 | 6     | 25  | 6/25/2007  | RISSO'S DOLPHIN             | UNIDENTIFIED NET FISHERY ENTANGLEMENT/VESSEL STRIKE | ORANGE        | CA    | DEAD   | CARCASS; ABDOMEN CUT OPEN FROM STERNUM TO GENITAL SLIT; FLUKES HANGING FROM TAIL STOCK; BROKEN SKULL & RIBS          | DEAD   |                                      |                          |
| 2008 | 10    | 18  | 10/18/2008 | RISSO'S DOLPHIN             | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2010 | 1     | 22  | 1/22/2010  | RISSO'S DOLPHIN             | UNIDENTIFIED FISHERY INTERACTION                    | LOS ANGELES   | CA    | DEAD   | MULTIPLE PARALLEL LACERATIONS  | DEAD   |                                      |                          |
| 2011 | 9     | 29  | 9/29/2011  | RISSO'S DOLPHIN             | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 1     | 18  | 1/18/2007  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 6     | 5   | 6/5/2007   | SHORT-BEAKED COMMON DOLPHIN | UNIDENTIFIED NET FISHERY ENTANGLEMENT               | SAN DIEGO     | CA    | DEAD   | CARCASS; POSSIBLE TWISTED ROPE IMPRESSION & INDENTATION ON TAIL STOCK  | DEAD   |                                      |                          |
| 2007 | 7     | 14  | 7/14/2007  | SHORT-BEAKED COMMON DOLPHIN | UNIDENTIFIED NET FISHERY ENTANGLEMENT               | SAN MATEO     | CA    | DEAD   | CARCASS; 0.75 INCH X 0.5 INCH HOLE AT BASE OF CRANIUM; PROBABLE GAFF WOUND   | DEAD   |                                      |                          |
| 2007 | 10    | 18  | 10/18/2007 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 11    | 5   | 11/5/2007  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 11    | 7   | 11/7/2007  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 11    | 7   | 11/7/2007  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 11    | 17  | 11/17/2007 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 12    | 3   | 12/3/2007  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 12    | 15  | 12/15/2007 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 12    | 17  | 12/17/2007 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 10    | 17  | 10/17/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 10    | 25  | 10/25/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 10    | 26  | 10/26/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 10    | 26  | 10/26/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 10    | 26  | 10/26/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 11    | 12  | 11/12/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 11    | 23  | 11/23/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 12    | 20  | 12/20/2008 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2009 | 12    | 4   | 12/4/2009  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY                  | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species                     | Interaction Type                      | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|-----------------------------|---------------------------------------|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2009 | 12    | 17  | 12/17/2009 | SHORT-BEAKED COMMON DOLPHIN | 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   |                                      |                          |
| 2010 | 9     | 18  | 9/18/2010  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2010 | 9     | 18  | 9/18/2010  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2010 | 12    | 5   | 12/5/2010  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2011 | 10    | 14  | 10/14/2011 | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2011 | 12    | 4   | 12/4/2011  | SHORT-BEAKED COMMON DOLPHIN | CA SWORDFISH DRIFT GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2007 | 2     | 21  | 2/21/2007  | SPERM WHALE                 | VESSEL STRIKE                         | LANE          | OR    | DEAD   | OBVIOUS EVIDENCE OF PROPELLER TRAUMA; DEEP GASH ON DORSAL SIDE, CAUDAL END OF BODY CUT OFF AT PEDUNCLE   | DEAD   |                                      |                          |
| 2007 | 8     | 15  | 8/15/2007  | SPERM WHALE                 | VESSEL STRIKE                         | OFFSHORE      | WA    | NSI  | 58 FOOT SABLEFISH LONGLINE VESSEL HIT WHALE AT IDLE SPEED. OBSERVER REPORTED NO EVIDENCE OF INJURY TO THE WHALE. DAY OF OBSERVATION WAS NOT PROVIDED BY OBSERVER PROGRAM, THUS, 'DAY' IS REPORTED AS '15TH', OR MIDPOINT OF MONTH.   | NSI  | L6C                                  |                          |
| 2008 | 2     | 1   | 2/1/2008   | SPERM WHALE                 | MARINE DEBRIS INGESTION               | DEL NORTE     | CA    | DEAD   | CARCASS; STOMACH CRAMMED WITH NETS OF DIFFERING TYPE   | DEAD   |                                      |                          |
| 2008 | 3     | 14  | 3/14/2008  | SPERM WHALE                 | GILLNET FISHERY                       | PACIFIC       | WA    | DEAD   | APPEARED TO HAVE ENTANGLEMENT SCARS  | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 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   |                                      |                          |
| 2007 | 3     | 24  | 3/24/2007  | UNIDENTIFIED DOLPHIN        | GILLNET FISHERY                       | LOS ANGELES   | CA    | DEAD   | CARCASS; 1 OF 2 ANIMALS FOUND ENTANGLED IN FISHING NET   | DEAD   |                                      |                          |
| 2007 | 3     | 24  | 3/24/2007  | UNIDENTIFIED DOLPHIN        | GILLNET FISHERY                       | LOS ANGELES   | CA    | NSI  | LIVE STRANDING; 1 OF 2 ANIMALS FOUND ENTANGLED IN FISHING NET; NON-FATAL INJURY (ANIMAL FREED FROM NET BY LIFEGUARDS & SWAM OFF IN NO APPARENT DISTRESS)   | NSI  | S7B                                  |                          |
| 2007 | 6     | 18  | 6/18/2007  | UNIDENTIFIED PINNIPED       | VESSEL STRIKE                         | SAN DIEGO     | CA    | DEAD   | CARCASS FLOATING IN BAY; PROPELLER-LIKE WOUNDS TO BODY   | DEAD   |                                      |                          |
| 2007 | 8     | 7   | 8/7/2007   | UNIDENTIFIED PINNIPED       | VESSEL STRIKE                         | SAN DIEGO     | CA    | DEAD   | CARCASS; PROPELLER-LIKE WOUNDS TO BODY   | DEAD   |                                      |                          |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date      | Species               | Interaction Type                                    | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments   | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|-----------|-----------------------|---|---------------|-------|--|--|--|--------------------------------------|--------------------------|
| 2007 | 8     | 8   | 8/8/2007  | UNIDENTIFIED PINNIPED | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY    | OFFSHORE      | CA    | DEAD   | OBSERVER PROGRAM   | DEAD   |                                      |                          |
| 2008 | 5     | 19  | 5/19/2008 | UNIDENTIFIED PINNIPED | MARINE DEBRIS/UNIDENTIFIED NET FISHERY ENTANGLEMENT | LOS ANGELES   | CA    | DEAD   | CARCASS: ROPE AROUND NECK  | DEAD   |                                      |                          |
| 2008 | 5     | 24  | 5/24/2008 | UNIDENTIFIED PINNIPED | VESSEL STRIKE                                       | ORANGE        | CA    | DEAD   | CARCASS; PROPELLER-LIKE WOUNDS TO BODY   | DEAD   |                                      |                          |
| 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   |                                      |                          |
| 2007 | 4     | 7   | 4/7/2007  | UNIDENTIFIED WHALE    | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT          | SAN MATEO     | CA    | SI   | FREE-SWIMMING ANIMAL TOWING POT/TRAP GEAR; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS; FINAL STATUS UNKNOWN  | SI   | L10                                  | 0.75                     |
| 2007 | 6     | 14  | 6/14/2007 | UNIDENTIFIED WHALE    | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT          | SANTA CRUZ    | CA    | SI   | FREE-SWIMMING ANIMAL WITH 3 WRAPS OF POT/TRAP GEAR AROUND TAIL STOCK, TOWING 3 BUOYS; ACCOMPANIED BY SMALLER NON-ENTANGLED ANIMAL; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS; FINAL STATUS UNKNOWN  | SI   | L2                                   | 1                        |
| 2007 | 6     | 27  | 6/27/2007 | UNIDENTIFIED WHALE    | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT          | MONTEREY      | CA    | SI   | FREE-SWIMMING ANIMAL TOWING 2 POT/TRAP BUOYS FROM TAIL STOCK; NO RESCUE EFFORT INITIATED; NO RESIGHTINGS; FINAL STATUS UNKNOWN   | SI   | L10                                  | 0.75                     |
| 2007 | 7     | 3   | 7/3/2007  | UNIDENTIFIED WHALE    | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT          | MENDOCINO     | CA    | NSI  | FREE-SWIMMING ANIMAL TOWING POT/TRAP GEAR; NO RESCUE EFFORT INITIATED; NON-FATAL INJURY (USCG REPORTED THAT ANIMAL FREED ITSELF FROM GEAR)   | NSI  | L3                                   | 0                        |
| 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                     |

Appendix 4. Human-related injury and mortality records, 2007 to 2011. Records are sorted by common name and date.

| Year | Month | Day | Date       | Species            | Interaction Type                              | County/Locale | STATE | Initial Injury Assessment:<br>NSI, SI, SI (PRORATE),<br>DEAD, CAPTIVITY. | Comments  | Final Injury Assessment: NSI, SI,<br>SI (PRORATE), DEAD,<br>CAPTIVITY. | SI Criteria Supporting<br>Assessment | SI<br>Proration<br>Value |
|------|-------|-----|------------|--------------------|---|---------------|-------|--|---|--|--------------------------------------|--------------------------|
| 2010 | 3     | 29  | 3/29/2010  | UNIDENTIFIED WHALE | VESSEL STRIKE                                 | LOS ANGELES   | CA    | SI   | COMMERCIAL ISLAND PASSENGER<br>TRANSPORT CATAMARAN VESSEL, 37 METERS<br>LONG DOING 28 KNOTS. COLLIDED WITH<br>FREE-SWIMMING ANIMAL; NO BLOOD<br>OBSERVED IN WATER; COLLISION DISLODGED<br>VESSEL'S STARBOARD T-FOIL; FINAL STATUS<br>UNKNOWN  | SI   | L6A                                  | 1                        |
| 2010 | 4     | 8   | 4/8/2010   | UNIDENTIFIED WHALE | UNIDENTIFIED FISHERY<br>INTERACTION           | MARIN         | CA    | SI (PRORATE)   | ROPE WRAPPED AROUND CAUDAL<br>PEDUNCLE; UNIDENTIFIED FISHERY  | SI (PRORATE)   | L10                                  | 0.75                     |
| 2010 | 5     | 2   | 5/2/2010   | UNIDENTIFIED WHALE | UNIDENTIFIED FISHERY<br>INTERACTION           | SANTA BARBARA | CA    | SI   | ANIMAL ENTANGLED IN ROPE. ANIMAL<br>THRASHING AT SURFACE; NO RESCUE<br>EFFORT INITIATED; NO RESIGHTINGS<br>REPORTED; FINAL STATUS UNKNOWN   | SI   | L10                                  | 0.75                     |
| 2010 | 7     | 7   | 7/7/2010   | UNIDENTIFIED WHALE | UNIDENTIFIED FISHERY<br>INTERACTION           | SANTA BARBARA | CA    | SI   | ANIMAL TOWING NET-LIKE MATERIAL;<br>SIGHTING REPORTED BY OIL PLATFORM<br>WORKERS, FREE-SWIMMING; NO RESCUE<br>EFFORT INITIATED; NO RESIGHTINGS<br>REPORTED; FINAL STATUS UNKNOWN  | SI   | L10                                  | 0.75                     |
| 2010 | 10    | 13  | 10/13/2010 | UNIDENTIFIED WHALE | UNIDENTIFIED FISHERY<br>INTERACTION           | SAN FRANCISCO | CA    | SI   | TOWING ORANGE BUOY. WHALE SIGHTED<br>FROM SHORE USING BINOCULARS.<br>APPEARED TO BE FREE-SWIMMING AND<br>DIVING; NO RESIGHTS; FINAL STATUS<br>UNKNOWN   | SI   | L10                                  | 0.75                     |
| 2011 | 7     | 16  | 7/16/2011  | UNIDENTIFIED WHALE | UNIDENTIFIED FISHERY<br>INTERACTION           | MONTEREY      | CA    | SI   | FREE-SWIMMING ENTANGLED WHALE IN<br>UNKNOWN GEAR  | SI   | L10                                  | 0.75                     |
| 2011 | 8     | 20  | 8/20/2011  | UNIDENTIFIED WHALE | UNIDENTIFIED POT/TRAP<br>FISHERY ENTANGLEMENT | SNOHOMISH     | WA    | SI (PRORATE)   | WHALE TRAILING A RED AND WHITE BOUY<br>OFF THE RIGHT SIDE. DID NOT SEE ANY LINES<br>WRAPPED AROUND THE BODY.  | SI (PRORATE)   | L10                                  | 0.75                     |
| 2011 | 9     | 5   | 9/5/2011   | UNIDENTIFIED WHALE | UNIDENTIFIED POT/TRAP<br>FISHERY ENTANGLEMENT | LINCOLN       | OR    | SI   | ENTANGLED LARGE WHALE ABOUT 6 NM NW<br>OF YAQUINA BAY. IT WAS OBSERVED BY<br>FISHERMAN WHO LOST SIGHT OF IT IN FOG<br>AND INCREASINGLY CHOPPY SEAS;<br>REPORTED SEEING A LARGE WHALE (FLUKES<br>ABOUT 6-7 FEET WIDE) WITH TWO BUOYS<br>ATTACHED TO IT: ONE RED AND WHITE NEAR<br>ANIMAL'S MID-SECTION AND ONE WHITISH<br>CLOSER TO THE TAIL OR DORSAL "RIDGE"<br>AREA; ANIMAL WAS SEEN DIVING (WITH<br>FLUKES UP) AND THEN REAPPEARING JUST<br>BELOW THE SURFACE. | SI   | L10                                  | 0.75                     |

# RECENT TECHNICAL MEMORANDUMS

SWFSC Technical Memorandums are accessible online at the SWFSC web site (<http://swfsc.noaa.gov>). Copies are also available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 (<http://www.ntis.gov>). Recent issues of NOAA Technical Memorandums from the NMFS Southwest Fisheries Science Center are listed below:

- NOAA-TM-NMFS-SWFSC-504 U.S. Pacific Marine Mammal Stock Assessments: 2012.  
J.V. CARRETTA, K.A. FORNEY, E. OLESON, K. MARTIEN, M.M. MUTO,  
M.S. LOWRY, J. BARLOW, J. BAKER, B. HANSON, D. LYNCH,  
L. CARSWELL, R.L. BROWNELL JR., J. ROBBINS, D.K. MATTILA,  
K. RALLS, and M.C. HILL  
(January 2013)
- 505 Spawning biomass of Pacific Sardine (*Sardinops sagax*) off U.S. in 2012.  
LO, N.C.H., B.J. MACEWICZ, AND D.A. GRIFFITH  
(March 2013)
- 506 Probability of taking a western North Pacific gray whale during the  
postponed Makah hunt.  
J. E. MOORE, and D. W. WELLER  
(March 2013)
- 507 Report of the National Marine Fisheries Service gray whale stock  
identification workshop.  
D. W. WELLER, S. BETTRIDGE, R. L. BROWNELL JR., J. L. LAAKE, J. E.  
MOORE, P. E. ROSEL, B. L. TAYLOR, and P. R. WADE  
(March 2013)
- 508 Inferring trackline detection probabilities from differences in apparent  
densities of beaked whales and dwarf & pygmy sperm whales in different  
survey conditions.  
J. BARLOW  
(April 2013)
- 509 Evaluation of an automated acoustic beaked whale detection algorithm  
using multiple validation and assessment methods.  
E.K. JACOBSON, T. M. YACK, J. BARLOW  
(March 2013)
- 510 Handbook for recognizing, evaluating, and documenting human interaction  
in stranded cetaceans and pinnipeds.  
MOORE K. T. and S. G. BARCO  
(March 2013)
- 511 A guide to constructing hydrophone arrays for passive acoustic data  
collection during NMFS shipboard cetacean surveys.  
RANKIN, S., BARLOW, J. BARKLEY, Y. and VALTIERRA, R.  
(May 2013)
- 512 The Sacramento Index (*SI*).  
O'FARRELL, M. R., M. S. MOHR, M. L. PALMER-ZWAHLEN, and A. M.  
GROVER  
(June 2013)
- 513 Sample size recommendations for estimating stock composition using  
genetic stock identification (GSI).  
ALLEN, S. D., W. H. SATTERTHWAITTE, and M. S. MOHR  
(June 2013)