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

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

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

Summary

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

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

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

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Methods

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

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

Prorating of serious injuries (large whales only)

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

unknown and the vessel's size and speed are unknown. For these cases, SI is prorated by 0.52 to reflect the known outcomes of the 25 cases with vessel-strike lacerations. For cases with sufficient vessel-strike injury details, other SI codes are applied. If a vessel-strike laceration is superficial and does not extend below the blubber layer, this is considered a NSI. If the laceration extends below the blubber layer ('deep'), the whale is considered seriously injured (equivalent to a SI 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

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

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

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

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

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

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

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

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

Discussion

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

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

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

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

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

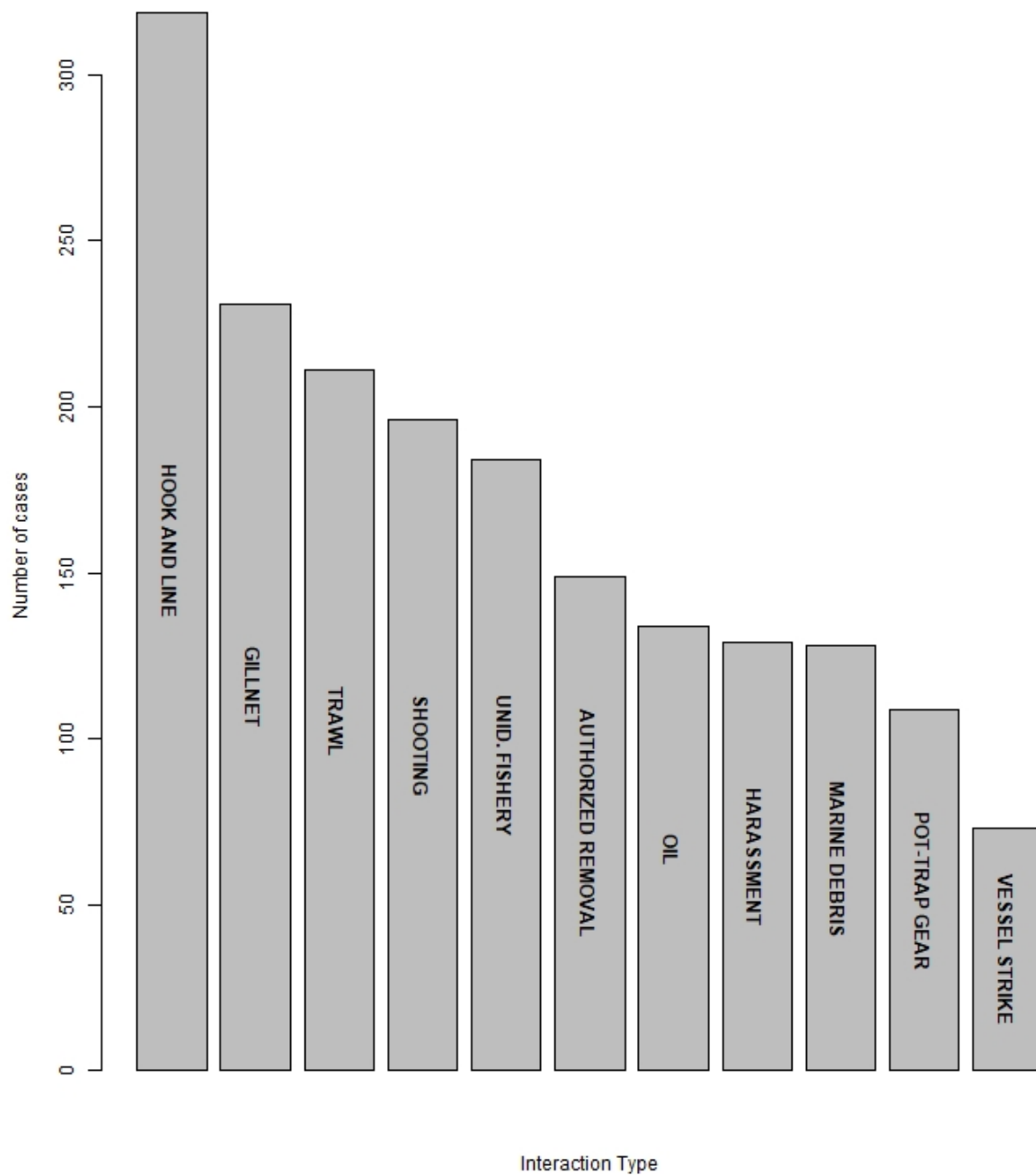


Table 1 (page 1 of 2). Sources of human–caused injury and mortality to marine mammals, 2014–2018.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| | DEAD | NSI | SI |
|-------|------|-----|----|
| ALIVE | 0 | 0 | 0 |
| NSI | 0 | 0 | 0 |
| SI | 4 | 0 | 3 |

Appendix 1. Pinniped Injury Criteria (NOAA 2012)

Summary of Pinniped¹ Injury Categories and Criteria

Instructions: Each pinniped injury event is recorded to the appropriate injury/information category using all available information and scientific judgment, as described in the Procedural Directive. For a single injury event to which several categories apply, the injury determination with the highest level of severity is assigned. More detailed information or extended observation on an individual case/animal may justify a determination differing from the guidance of this table. Any injury leading to apparent significant health decline (e.g., skin discoloration, fat loss) is a serious injury.

| Category | Injury/Information | Injury Determination ² | Additional factors for evaluating whether “case specific” injuries are serious or non-serious (additional factors at end of table) * |
|----------|--|-----------------------------------|---|
| P1 | A free-swimming animal observed at a date later than its human interaction, exhibiting signs of declining health believed to be resulting from initial injury (e.g., a marked change in body condition, tissue necrosis, emaciation, gangrene). | SI ³ | |
| P2 | Ingested gear ⁴ or hook(s) | SI | |
| P3 | Visible blood loss | Case specific ⁵ | Amount of blood, location of the bleeding injury, duration of bleeding |
| P4 | Animal brought on vessel deck following entanglement/entrapment (excluding scientific research targeting marine mammals and authorized as such under a NMFS scientific research permit, where the animal is brought on and placed on the vessel deck in a controlled manner) | Case specific | Manner in which animal is brought on deck, length of time animal is on deck, environmental conditions (e.g., temperature) |
| P5a | Hook(s) in mouth (excluding criterion P5b), regardless of the presence of gear | SI | |
| P5b | Hook(s) confirmed in head (excluding criterion P5a), or in lip only (external tissue outside of teeth), no trailing gear | Case specific | Location on head (e.g., eye), depth of penetration, type of hook, prolonged restraint or struggle that could lead to capture myopathy, size of hook, impairing ability to feed |
| P5c | Hook(s) in any body part, but hook(s) is removed or pulls out | Case specific | Prolonged restraint or struggle that could lead to capture myopathy, location of hooking on the body, depth of hook, hook pulls out cleanly vs. causes further injury during dehooking, method used to remove hook, length of time hooked |

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

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

³ SI = serious injury.

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

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

Appendix 1. Pinniped Injury Criteria (NOAA 2012)

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

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

⁷ NSI = non-serious injury.

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

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

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

Appendix 1. Pinniped Injury Criteria (NOAA 2012)

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

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

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

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

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

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

Summary of Large Cetacean¹ Injury Categories and Criteria

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

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

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

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

³ SI = Serious Injury.

⁴ NSI = Non-Serious Injury.

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

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

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

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

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

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

Summary of Small Cetacean¹ Injury Categories and Criteria

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

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

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

³ SI = serious injury.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|------------|-------------------|------|-------|-----|---|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| BLUE WHALE | EASTERN N PACIFIC | 2016 | 8 | 28 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI (PRORATE) | TWO BLACK OR GREEN BUOYS WITH ABUNDANT MARINE GROWTH TRAILING BEHIND WHALE ABOUT 20-30 FEET, FLUKES NOT ENTANGLED, BUT POSSIBLY PECTORAL FIN. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2016 | 10 | 26 | VESSEL STRIKE | SAN MATEO | CA | DEAD | MODERATELY DECOMPOSED 65-FOOT LONG BLUE WHALE NECROPSIED BY THE MARINE MAMMAL CENTER, FINDINGS OF BLUNT FORCE TRAUMA. SOME UNCERTAINTY WHETHER OR NOT VESSEL STRIKE WAS | DEAD | NA | 1 | N | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2017 | 5 | 25 | VESSEL STRIKE | MARIN | CA | DEAD | NECROPSY CONDUCTED BY MARINE MAMMAL CENTER IN SAUSILITO. BLUNT FORCE TRAUMA DUE TO A BOAT STRIKE,” SAID BARBIE HALASKA, A BIOLOGIST AND RESEARCH ASSISTANT AT THE MARINE MAMMAL CENTER IN SAUSALITO. LEFT SIDE OF BODY WAS DAMAGED. FINDINGS INCLUDED 10 BROKEN RIBS AND 10 FRACTURED VERTEBRAE NEAR THE TAIL AND MID-BODY. | DEAD | NA | 1 | N | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2017 | 6 | 10 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | SAN FRANCISCO | CA | SI (PRORATE) | TWO BUOYS ON RIGHT SIDE OF BODY, WITH LINE POSSIBLY EXTENDING TO MOUTH. ONE BUOY HAD A RED/ORANGE TAG, THIS IS A CA DUNGENESS CRAB ENTANGLEMENT. ONE LARGER YELLOW BUOY WITH BLACK LONGITUDINAL STRIPE TRAILING OFF RIGHT SIDE, MID BODY, POSSIBLE MOUTH ENTANGLEMENT. APPEARS TO BE A GREEN/BLUE LINE AROUND THE HEAD. ANIMAL LUNGING AT SURFACE, OBSERVERS THINK IT MIGHT HAVE SELF-RELEASED, BUT BUOYS WERE NOT SEEN AGAIN. UNCERTAINTY REGARDING CONTINUED PRESENCE OF GEAR ON ANIMAL AND UNKNOWN CONFIGURATION WARRANTS PRORATED SERIOUS INJURY. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2017 | 8 | 19 | UNIDENTIFIED FISHERY INTERACTION | SAN DIEGO | CA | SI (PRORATE) | PHOTOS SHOW BLUE LINE DRAPED OVER BACK OF WHALE DIAGONALLY, FROM ANTERIOR TO DORSAL FIN, TOWARDS MIDBODY. PHOTOS SHOW THAT PRIVATE VESSEL RETRIEVED, VIA CUTTING, A LONG LENTGH OF BLUE LINE AND 2 LARGE BUMPER BUOYS. UNCLEAR IF GEAR REMAINED ON ANIMAL OR NOT. GOOD BODY CONDITION, NO BEHAVIORAL SUMMARY. UNKNOWN GEAR CONFIGURATION AND AMOUNT. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2017 | 9 | 23 | UNIDENTIFIED FISHERY INTERACTION | SAN FRANCISCO | CA | SI (PRORATE) | PHOTOS SHOW BLUE WHALE TRAILING A SINGLE BUOY APPROXIMATELY 1.5 BODY LENGTHS BEHIND TAIL. ANIMAL WAS ACTIVELY SWIMMING. GEAR CONFIGURATION AND AMOUNT UNKNOWN. PHOTOS NECROPSY FINDINGS INCLUDED: LARGE AREAS OF | SI (PRORATE) | L10 | 0.75 | Y | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2018 | 6 | 16 | VESSEL STRIKE | SAN FRANCISCO | CA | DEAD | MUSCLE HEMORRHAGE ON THE LEFT AND RIGHT DORSO-LATERAL SIDES. HEMORRHAGED TISSUE OBSERVED CAUDAL TO THE GAPE ON THE LEFT SIDE. EXTENSIVE NECROTIC TISSUE WAS NOTED CAUDAL TO THE SKULL AT THE CERVICAL VERTEBRAE. BONE BRUISING WAS OBSERVED ON ALL OF THE RIBS THAT WERE VISUALIZED ON THE LEFT SIDE AND ON THE LEFT MANDIBLE. THERE WERE NO BROKEN RIBS. THERE WAS EXTENSIVE FREE-FLOWING BLOOD OBSERVED WHEN THE RIGHT THORAX WAS OPENED UP. THE FIRST THREE (3) LUMBAR VERTEBRAE WERE SURROUNDED BY NECROTIC TISSUE AND WERE SHATTERED INTO MANY PIECES, INCLUDING FRACTURED LATERAL PROCESSES, FRACTURED CENTRUMS, AND A FRACTURED EPIPHYSEAL PLATE. ALL OTHER VERTEBRAE THAT WERE VISUALIZED WERE INTACT. FINDINGS CONSISTENT WITH VESSEL STRIKE AS CAUSE OF | DEAD | NA | 1 | N | Y |
| BLUE WHALE | EASTERN N PACIFIC | 2018 | 7 | 16 | UNIDENTIFIED FISHERY INTERACTION | SONOMA | CA | SI (PRORATE) | WHALE TRAILING 2 YELLOW BUOYS APPROXIMATELY 40 FT. BEHIND ANIMAL. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|---------------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2014 | 3 | 25 | GILLNET FISHERY | SANTA BARBARA | CA | SI | UNDERWEIGHT ANIMAL WITH MONOFILAMENT NET AROUND NECK AND MOUTH REMOVED, ANIMAL TRANSPORTED TO THE MARINE MAMMAL CENTER, FINAL OUTCOME UNKNOWN. | SI | P7B | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 3 | 27 | OIL / TAR | SAN DIEGO | CA | SI | LETHARGIC, UNDERWEIGHT, THICK OIL COAT ON HEAD AND HINDQUARTERS, ANIMAL TAKEN INTO REHAB AND CLEANED, FINAL OUTCOME UNKNOWN. | SI | P1 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 3 | 30 | HOOK AND LINE FISHERY | ORANGE | CA | SI | HOOK IN RIGHT FRONT FLIPPER | NSI | P5D | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 1 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | UNDERWEIGHT, HOOK THROUGH TONGUE | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 1 | MARINE DEBRIS | GRAYS HARBOR | WA | SI | CONSTRICTING ENTANGLEMENT AROUND NECK, PHOTO REVIEWED, MATERIAL NOT VISIBLE. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 4 | MARINE DEBRIS | SAN MATEO | CA | SI | RUBBER BELT AROUND NECK. ANIMAL TAKEN TO REHAB, OUTCOME UNKNOWN. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 5 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | UNDERWEIGHT ANIMAL WITH ONE FISH HOOK UNDER RIGHT EYE, ONE IN FLIPPER. RADIOGRAPH REVEALED THIRD FISH HOOK IN STOMACH WHICH WAS REMOVED IN REHAB. FINAL OUTCOME UNKNOWN. | SI | P2 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 6 | MARINE DEBRIS | SANTA BARBARA | CA | SI | UNDERWEIGHT ANIMAL WITH BLACK RUBBER BELT CUTTING INTO NECK. REMOVED AT SANTA BARBARA MARINE MAMMAL CENTER. FINAL OUTCOME UNKNOWN. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 6 | SHOOTING | SAN DIEGO | CA | SI | UNDERWEIGHT ANIMAL MISSING BOTH EYES. RADIOGRAPH REVEALED BULLET IN HEAD. | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 8 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | CA | DEAD | KILLED BY GEAR | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 8 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | HYPERTHERMIC ANIMAL WITH HOOK IN SHOULDER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 10 | GILLNET FISHERY | SAN DIEGO | CA | SI | GILLNET WOUND AROUND NECK, ANIMAL CAPTURED AND TREATED, OUTCOME UNKNOWN. | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 11 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | UNDERWEIGHT ANIMAL WITH HOOK IN SHOULDER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 11 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | UNDERWEIGHT AND CONGESTED ANIMAL WITH FISH HOOK IN RIGHT REAR FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN. | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 12 | GILLNET FISHERY | LOS ANGELES | CA | SI | CUTS AROUND NECK - GILL NET INJURY; ATAXIC; THIN; MALNUTRITION | SI | P1 | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 12 | HOOK AND LINE FISHERY | ORANGE | CA | SI | UNDERWEIGHT AND DEHYDRATED ANIMAL WITH FISH HOOK IN LEFT REAR FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 13 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | CA | DEAD | KILLED BY GEAR | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 13 | HOOK AND LINE FISHERY | ORANGE | CA | SI | UNDERWEIGHT ANIMAL WITH HOOK ON RIGHT SIDE OF MOUTH AND FLIPPER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 13 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | EMACIATED, DEHYDRATED, FISHING HOOK IN CHIN ON LEFT SIDE, SWOLLEN RIGHT SIDE OF NECK POSSIBLY FROM DOG BITE. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5B | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 13 | MARINE DEBRIS | GRAYS HARBOR | WA | SI | CONSTRICTING ENTANGLEMENT AROUND NECK, LOOKS LIKE WHITE PACKING BAND OR LARGE ZIP TIE. PHOTO EMACIATED, FISH HOOKS IN FRONT & REAR FLIPPERS. TREATED AT REHAB, OUTCOME UNKNOWN. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 14 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | EMACIATED, DEHYDRATED, AND THREE PRONG FISHING HOOK ON THE FRONT EDGE OF LEFT FLIPPER WITH FISHING LINE WRAPPED TIGHTLY AROUND TIP SEVERING A PIECE OF THE FLIPPER. TREATED AT REHAB, OUTCOME | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 15 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 15 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 15 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 15 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 15 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 15 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 16 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | FISH HOOK IN LEFT GUM. ANIMAL TREATED IN REHAB, OUTCOME UNKNOWN. | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 16 | SHOOTING | LOS ANGELES | CA | SI | GUNSHOT WOUNDS TO HEAD; PNEUMONIA; MALNUTRITION. TREATED IN REHAB, OUTCOME | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 17 | HOOK AND LINE FISHERY | ORANGE | CA | SI | UNDERWEIGHT, FISH HOOKS BELOW EYE AND IN FLIPPERS. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5B | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 19 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | THIN AND DEHYDRATED. FISH HOOK IN LEFT CORNER OF MOUTH. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 19 | MARINE DEBRIS | SAN DIEGO | CA | SI | PLASTIC ZIPLOC BAG AROUND NECK REMOVED ON SITE. ANIMAL WAS ALERT AND OTHERWISE IN GOOD BODY | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 20 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | CONDITION. FISH HOOK IN MOUTH | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 21 | HOOK AND LINE FISHERY | ORANGE | CA | SI | UNDERWEIGHT, DEHYDRATED, FISH HOOK LEFT REAR FLIPPER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 22 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 22 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 22 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 22 | HOOK AND LINE FISHERY | ORANGE | CA | SI | LACERATION ON L FRONT FLIPPER WITH A FISH HOOK UNDERWEIGHT | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 22 | HOOK AND LINE FISHERY | ORANGE | CA | SI | UNDERWEIGHT, FISH HOOK IN MOUTH LEFT EAR, LEFT REAR FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN. | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 22 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | MALNOURISED AND LETHARGIC ANIMAL WITH A FISH HOOK. LOCATION OF HOOK NOT DESCRIBED. HOOK FOUND IN NET AFTER RESCUE. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN. | SI | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 26 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | DEEP FISHING LINE CUTS AROUND SKULL; PROLAPSED AND ULCERATED RECTUM; CONGESTED. SENT TO REHAB FACILITY, OUTCOME UNKNOWN. | SI | P1 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 27 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | EMACIATED, DEHYDRATED AND 1/2 INCH DEEP CUT ALL THE WAY AROUND NECK FROM MONOFILAMENT LINE WHICH WAS REMOVED AT SEAWORLD. UNDERWEIGHT AND DEEP CUT FROM FISHING LINE. FINAL OUTCOME | SI | P1 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 28 | OIL / TAR | MONTEREY | CA | SI | EMACIATED AND LETHARGIC ANIMAL WITH OIL/TAR ON BODY | SI | P1 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 28 | OIL / TAR | SAN LUIS OBISPO | CA | SI | ALERT, EMACIATED, TAR PATCHES ON NECK, SMALL WOUND ON NECK. OIL/TAR EXTERNAL EXAM | SI | P1 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 28 | SHOOTING | CLATSOP | OR | DEAD | BULLETS RETRIEVED | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 28 | SHOOTING | CLATSOP | OR | DEAD | BULLET HOLES IN SKULL AND BODY | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 29 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 29 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2014 | 4 | 29 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 1 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 1 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 1 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 1 | GILLNET FISHERY | LOS ANGELES | CA | SI | SEVERE GILL NET INJURY; MALNUTRITION. | SI | P1 | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 1 | GILLNET FISHERY | MONTEREY | CA | NSI | GOOD BODY CONDITION, MONOFILAMENT NET ENTANGLEMENT | NSI | P1 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 4 | HOOK AND LINE FISHERY | LOS ANGELES | CA | NSI | FISH HOOK IN LOWER LIP; SENT TO REHAB, OUTCOME UNKNOWN. | NSI | P5B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 4 | SHOOTING | GRAYS HARBOR | WA | DEAD | LARGE PELLET RECOVERED FROM SKULL, ASSOCIATED HEMORRHAGE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 7 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | MONOFILIAMENT LINE AROUND SHOULDER. ANIMAL SENT TO REHAB, OUTCOME UNKNOWN. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 8 | HOOK AND LINE FISHERY | SAN DIEGO | CA | NSI | SMALL HOOK NEAR GENITALS, UNDERWEIGHT, SLIGHTLY DEHYDRATED AND AN INJURED LEFT EYE. FISHING HOOK WAS REMOVED ON 5/8/14 UNDERWEIGHT AND INJURED LEFT EYE External Exam | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 11 | MARINE DEBRIS | SAN JUAN | WA | SI | CONSTRICTING INJURY AROUND NECK, MATERIAL NOT VISIBLE IN PHOTO. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 11 | SHOOTING | SAN DIEGO | CA | SI | EXTREMELY LETHARGIC, SWOLLEN RIGHT EYE, WOUNDS ON RIGHT SIDE OF FACE. BULLETS FOUND IN NECROPSY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 11 | SHOOTING | MONTEREY | CA | DEAD | BULLET HOLE / INJURY IN BACK | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 18 | HOOK AND LINE FISHERY | SANTA BARBARA | CA | SI | FISH HOOKS IN CHEST AND NECK. RELOCATED AND RELEASED 5/18/14. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 18 | MARINE DEBRIS | LOS ANGELES | CA | SI | THIN; HEALING CIRCUMFERENTIAL NECK LACERATION FROM PREVIOUS ENTANGLEMENT; DEHYDRATED. | SI | P1 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 18 | SHOOTING | CLATSOP | OR | DEAD | BULLET HOLES | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 19 | HOOK AND LINE FISHERY | SANTA BARBARA | CA | NSI | FISH HOOKS REMOVED FROM THIN ANIMAL BY REHAB CENTER, NO DETAILS ON LOCATION OF HOOKS. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 19 | SHOOTING | CLATSOP | OR | DEAD | BULLET HOLES, EXTENSIVE HEMORRHAGE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 21 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | ANIMAL WAS IN GOOD BODY CONDITION BUT HAD A FISHING GAFF PIERCING THROUGH HIS SKIN ABOVE HIS LEFT HIP. | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 23 | HOOK AND LINE FISHERY | SANTA BARBARA | CA | SI | FISH HOOK IN MOUTH, REMOVED AT REHAB FACILITY, ANIMAL RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 26 | ENTRAPMENT | SANTA BARBARA | CA | DEAD | DROWNED. WAS TRAPPED UNDER POOL GRATE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 27 | GILLNET FISHERY | SANTA BARBARA | CA | NSI | GILLNET AROUND NECK. NET REMOVED AND WOUND CLEANED AT REHAB FACILITY | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 27 | GILLNET FISHERY | SANTA BARBARA | CA | SI | GILLNET AROUND NECK. SENT TO REHAB FACILITY. NO FURTHER DETAILS. | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 27 | GILLNET FISHERY | SANTA BARBARA | CA | SI | GILLNET AROUND NECK. SENT TO REHAB FACILITY. NO FURTHER DETAILS. | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 27 | GILLNET FISHERY | SANTA BARBARA | CA | SI | GILLNET AROUND NECK. SENT TO REHAB FACILITY. NO FURTHER DETAILS. | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 31 | GILLNET FISHERY | ORANGE | CA | SI | GILLNET INJURY, EXPOSED TRACHEAL THYROID CARTILAGE. POLICE REMOVED THE FISHING LINE FROM AROUND THE ANIMAL'S NECK. ONCE DONE THEY | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 5 | 31 | SHOOTING | CLACKAMAS | OR | DEAD | BULLET HOLES, HEMORRHAGE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 6 | 6 | SHOOTING | MARIN | CA | DEAD | SMALL HOLE ABOUT RIGHT EYE SOCKET, WHICH IS ABOVE THE MAXILLA FRACTURE. SMALL CIRCULAR DIVOTS IN CHIN AND LOWER JAW AREA. NO BUCKSHOT IN HOLES AND THEY DID NOT TRACK DOWN TROUGH SUBCUTANEOUS TISSUE, WILL LOOK FOR BULLETS AND BUCKSHOT DURING PROCESSING OF SKULL. OLD BUCKSHOT HOLES IN CHIN MAXILLA IN NUMEROUS | DEAD | NA | 1 | N | Y |

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-------------------------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2014 | 9 | 18 | SHOOTING | VENTURA | CA | SI | CALL RECEIVED OF POSSIBLY INJURED CSL JUST W OF HUENEME PIER. PEOPLE HARASSING IT. SWIMS OUT TO GET AWAY, BUT COMES RIGHT BACK. BY THE TIME CIMWI VOLUNTEERS ARRIVED CSL HAD MOVED TO E OF THE PIER. APPEARED TO HAVE FISHING LURE IN MOUTH. CSL THIN, LETHARGIC. RESCUED. WHATEVER WAS IN MOUTH CAME OUT DURING RESCUE. POST NOTE-CSL EXPIRED DURING INTAKE/INITIAL TREATMENT. APPEARED TO HAVE AN ABSCESS ON THE L NECK/SHOULDER AREA WHICH WAS ASPIRATED- BLOOD & CLOTS WERE OBTAINED. AREA WAS OPENED- MASSIVE AMOUNTS OF FREE FLOWING BLOOD AND CLOTS WERE FOUND. AFTER CSL'S EXPIRATION, A QUICK NECROPSY WAS DONE. FOUND SMALL POINTED PROJECTILE FROM A PELLET GUN. UNABLE TO LOCATE ENTRY POINT. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 9 | 21 | SHOOTING | SAN DIEGO | CA | SI | LETHARGIC, PEOPLE WERE CHASING IT INTO THE WATER AND THEN HE WOULD IMMEDIATELY COME BACK ONTO THE BEACH. WE NOTICED HE WASN'T FOCUSING ON ANYTHING AND BOTH EYES DRIFT INWARD. FOUND BULLET FRAGMENTS IN AND AROUND EYESOCKET DURING XRAYs ON 9/24/2014. | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 9 | 27 | SHORESIDE HAKE MIDWATER TRAWL | OFFSHORE | OR | DEAD | KILLED BY GEAR | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 3 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | CA | DEAD | KILLED BY GEAR | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 7 | SHOOTING | SAN DIEGO | CA | SI | THIN, APPEARED TO BE BLIND; ANIMAL WAS DARTED. X-RAYED, FOUND BUCKSHOT IN THE FACE AND BODY. | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 9 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | FOUR PRONGED BARBED FISHING HOOK WITH A 10" LURE ATTACHED HOOKED IN ANIMALS RT CORNER OF MOUTH. HAD MONOFILAMENT ATTACHED TO LURE | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 10 | SHOOTING | SAN DIEGO | CA | SI | LEFT EYE APPEARS TO BE BLIND. VERY THIN/LETHARGIC DURING RESCUE. BUCKSHOT FOUND IN CRANIAL AREA DURING X-RAYS. | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 13 | MARINE DEBRIS | CLATSOP | OR | SI | CONSTRICTING INJURY AROUND TORSO AND LOWER NECK, APPEARS TO BE ROPE. PHOTO REVIEWED. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 15 | CATCH SHARES HOOK AND LINE | OFFSHORE | CA | NSI | SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 15 | CATCH SHARES HOOK AND LINE | OFFSHORE | CA | NSI | SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 15 | CATCH SHARES HOOK AND LINE | OFFSHORE | CA | NSI | SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 15 | CATCH SHARES HOOK AND LINE | OFFSHORE | CA | NSI | SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 18 | SHOOTING | SAN DIEGO | CA | SI | XRAYs TAKEN SHOWED BULLET TRACK. BUCK SHOT IN ABDOMEN AND 2 BULLETS IN BACK. | SI | P12 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 19 | OPEN ACCESS CA HALIBUT BOTTOM TRAWL | OFFSHORE | CA | NSI | ONE CA SEA LION WAS ENTANGLED INSIDE THE NET. THE ONE INSIDE THE NET WAS FEEDING ON THE CATCH. A SECOND CA SEA LION WAS SWIMMING BENEATH THE SURFACE. THE SEA LION STUCK IN THE NET SWAM INTO THE NET FROM THE SURFACE WHEN THE NET WAS BEING REELED BACK. THE SEA LION WAS RELEASED FROM THE NET IN THE WATER AND NEVER BOARDED THE VESSEL. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 22 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | CA | DEAD | KILLED BY GEAR, ONE OF THREE ANIMALS IN SINGLE | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 22 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | CA | DEAD | KILLED BY GEAR, ONE OF THREE ANIMALS IN SINGLE | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 22 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | CA | DEAD | KILLED BY GEAR, ONE OF THREE ANIMALS IN SINGLE | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 22 | HOOK AND LINE FISHERY | VENTURA | CA | SI | LINE AROUND NECK AT CHANNEL ISLANDS HARBOR MARINA. DARTED WITH TRANQUILIZER, LINE REMOVED,TRANQUILIZER REVERSED AND CSL RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2014 | 10 | 23 | SHOOTING | SAN DIEGO | CA | SI | BULLET IN SHOULDER (XRAYs TAKEN 10/24/14) BONE WAS STARTING TO FUSE NOT GIVING SUFFICIENT RANGE OF MOTION. EUTHANIZED DUE TO POOR PROGNOSIS. | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|-------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2015 | 3 | 26 | GILLNET FISHERY | SANTA BARBARA | CA | SI | MONOFILAMENT NETTING. DIED IN REHAB FACILITY. DETAILS NOT PROVIDED. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 3 | 27 | OIL / TAR | LOS ANGELES | CA | SI | UNDERWEIGHT ANIMAL WITH SEIZURES WITH TAR ON FLANK AND SHOULDER. EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 3 | 28 | SHOOTING | CLATSOP | OR | DEAD | EVIDENCE COLLECTED FROM PELVIS; ENTRANCE AND EXIT HOLE AND TRACK IN NECK; LEFT SIDE OF SNOUT CUT OFF (PROPELLER?); MODERATE AMOUNT OF BLOODY FLUID IN THORACIC AND ABDOMINAL CAVITIES; ANIMAL HAD EXCELLENT BODY CONDITION. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 3 | 30 | HOOK AND LINE FISHERY | SANTA CRUZ | CA | SI | FISHING LINE ATTACHED TO FLIPPER AND MOUTH. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 3 | 30 | OIL / TAR | LOS ANGELES | CA | SI | UNDERWEIGHT ANIMAL WITH TAR ON FLIPPERS. DIED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 3 | 31 | SCIENTIFIC RESEARCH | SAN MIGUEL ISLAND | CA | DEAD | DATABASE DETAILS LACKING. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 1 | OIL / TAR | LOS ANGELES | CA | SI | UNDERWEIGHT ANIMAL WITH SEIZURES WITH TAR ON FLIPPERS. EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 2 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | FISHING HOOK IN LEFT REAR FLIPPER. UNDERWEIGHT ANIMAL TREATED IN REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 2 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | FISHING HOOK IN MOUTH AND IN REAR LEFT FLIPPER. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 3 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | FISHING HOOKS FOUND IN LOWER RIGHT SIDE OF JAW (1), RIGHT FRONT FLIPPER (1), LEFT SHOULDER (2), AND TWO REMOVED FROM STOMACH. TAR ON LEFT SHOULDER AND NEAR RIGHT EAR. DIED IN REHAB FACILITY | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 3 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | UNDERWEIGHT ANIMAL WITH FISH HOOK IN LOWER LEFT JAW. TREATED IN REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 4 | HOOK AND LINE FISHERY | LOS ANGELES | CA | NSI | HYPERTHERMIC, 2 FISH HOOKS IN LEFT REAR FLIPPER. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 4 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | UNDERWEIGHT ANIMAL WITH FISHING LINE AROUND MOUTH AREA. TREATED IN REHAB FACILITY AND | NSI | P8B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 4 | SHOOTING | CLATSOP | OR | DEAD | TWO PENETRATING HOLES IN THE THORACIC AND ABDOMINAL CAVITIES WITH ASSOCIATED HEMORRHAGE; OTHER AREAS OF HEMORRHAGE IN HEAD AND BODY; INTESTINES TIGHTLY TWISTED; ANIMAL HAD EXCELLENT BODY CONDITION. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 5 | GILLNET FISHERY | MONTEREY | CA | SI | MONOFILAMENT NETTING ENTANGLEMENT. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 5 | HOOK AND LINE FISHERY | LOS ANGELES | CA | NSI | LETHARGIC ANIMAL WITH HOOK IN LEFT FOREFLIPPER. TREATED IN REHAB AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 5 | HOOK AND LINE FISHERY | ORANGE | CA | SI | FISHING LINE AND HOOKS, LOCATION NOT GIVEN. EUTHANIZED IN REHAB FACILITY. NECROPSY INDICATED ULCERATIVE GASTROPATHY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 5 | SHOOTING | CLATSOP | OR | DEAD | SKULL DAMAGE INCLUDED BULLET TRACK THROUGH EYE ORBITS & OTHER BONE DAMAGE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 6 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | UNDERWEIGHT AND DEHYDRATED. ANIMAL HAD HOOK IN MOUTH WHEN PICKED UP. ANIMAL REMOVED IT EN ROUTE TO SEAWORLD SAN DIEGO. TREATED IN REHAB AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 6 | SHOOTING | SAN DIEGO | CA | SI | GUNSHOT PELLETS FOUND POSTMORTEM. ANIMAL EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 7 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 7 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 7 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 7 | GILLNET FISHERY | MONTEREY | CA | SI | MONOFILAMENT NETTING, INJURY DETAILS NOT PROVIDED, ASSUMED SERIOUS INJURY. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P8A | 1 | Y | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 7 | HOOK AND LINE FISHERY | CLATSOP | OR | SI | RED FISHING LURE HANGING FROM THE LEFT CORNER OF THE LOWER JAW. PHOTO SHOWS HOOKS ARE LIKELY INSIDE LEFT CORNER OF MOUTH. | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 7 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | DIED IN REHAB FACILITY. HOOK, FISHING LURE, AND LINE FOUND. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 8 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | FISH HOOKS, DETAILS NOT GIVEN. ANIMAL DIED IN REHAB. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 8 | HOOK AND LINE FISHERY | SAN LUIS OBISPO | CA | SI | HOOK IN CHEST WITH LINE. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 8 | OIL / TAR | SAN LUIS OBISPO | CA | SI | EMACIATED, CONGESTED AND COUGHING, TAR PATCHES ON BACK. BAD LOCATION- POPULAR DOG BEACH. EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 11 | HOOK AND LINE FISHERY | ORANGE | CA | SI | FISH HOOKS IN MOUTH. DIED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 11 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | FISHING LURE, HOOK AND LINE ENTANGLEMENT. DIED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 12 | HOOK AND LINE FISHERY | ORANGE | CA | SI | UNDERWEIGHT ANIMAL WITH FISH HOOKS IN MOUTH. TREATED IN REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 12 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | ANIMAL WITH UNSPECIFIED FISH HOOK INJURIES DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 13 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | CONSTRICTING AND LACERATED FISHING LINE INJURIES AROUND NECK. EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 14 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 16 | OIL / TAR | SANTA BARBARA | CA | SI | UNDERWEIGHT ANIMAL WITH TAR / OIL. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 17 | HOOK AND LINE FISHERY | ORANGE | CA | NSI | UNDERWEIGHT ANIMAL WITH FISH HOOK IN LEFT SHOULDER. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 18 | HOOK AND LINE FISHERY | ORANGE | CA | SI | EMACIATED ANIMAL WITH FISH HOOKS IN ABDOMEN AND ABCCESS IN RIGHT JAW. EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 18 | HOOK AND LINE FISHERY | LOS ANGELES | CA | NSI | FISH HOOK IN FLIPPER. TREATED IN REHAB AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 20 | GILLNET FISHERY | SANTA CRUZ | CA | SI | ANIMAL ENTANGLED IN MONOFILAMENT NETTING DIED IN REHAB. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 20 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | SEAWORLD TEAM DISENTAGLED ANIMAL AND CUT OFF MONOFILAMENT FROM AROUND HEAD AND MOUTH. ANIMAL WAS AN EXCELLENT WEIGHT AND AGGRESSIVE. IT WAS RELEASED ON SITE AFTER MONOFILAMENT HAD BEEN REMOVED. | NSI | P8A | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 20 | HOOK AND LINE FISHERY | SAN DIEGO | CA | NSI | HEALTHY, AGGRESSIVE ANIMAL WITH FISHING HOOK PIERCING BELOW BOTTOM JAW. HOOK REMOVED AND ANIMAL RELEASED ON SITE. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 20 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | FISHING LINE COMING OUT OF MOUTH. EUTHANIZED IN REHAB. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 21 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 21 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 21 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 21 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|--------------------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 22 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 22 | HOOK AND LINE FISHERY | SANTA BARBARA | CA | SI | FISH HOOKS, DETAILS NOT GIVEN. ANIMAL DIED IN REHAB. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 23 | GILLNET FISHERY | MONTEREY | CA | SI | MONOFILAMENT NETTING, INJURY DETAILS NOT PROVIDED, ASSUMED SERIOUS INJURY. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN. | SI | P8A | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 23 | GILLNET FISHERY | MONTEREY | CA | SI | NECK ENTANGLEMENT IN MONOFILAMENT NETTING. DIED IN REHAB FACILITY. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 23 | HOOK AND LINE FISHERY | SAN DIEGO | CA | NSI | FISHING HOOK IN LEFT FRONT FLIPPER, VENTRAL SIDE. PUSHED THROUGH AND CUT OFF, RELEASED FROM REHAB FACILITY. SLIGHTLY UNDERWEIGHT. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 25 | SHOOTING | MONTEREY | CA | SI | GUNSHOT PELLET FOUND IN HEAD POSTMORTEM. EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 27 | SHOOTING | CLARK | WA | DEAD | TWO SUSPICIOUS HOLES WITH ASSOCIATED TREMENDOUS HEMORRHAGE; HEMORRHAGE IN HEAD; ANIMAL HAD EXCELLENT BODY CONDITION. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 28 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 28 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 28 | HOOK AND LINE FISHERY | VENTURA | CA | SI | UNDERWEIGHT ANIMAL WITH FISHING LINE IN MOUTH. TREATED AT REHAB FACILITY. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 4 | 28 | VESSEL STRIKE | KING | WA | SI | SEVERE, DEEP AND OPEN PROPELLER INJURY (LACERATION) EXTENDING DOWN NECK TO BASE OF FISHING LINE EMBEDDED IN HEALED NECK WOUND. EUTHANIZED IN REHAB FACILITY. DEHYDRATION AND PARASITISM NOTED. | SI | P9 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 1 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 3 | MARINE DEBRIS | LINCOLN | OR | SI | ADULT MALE CALIFORNIA SEA LION HAULED OUT ON PORT DOCK 1 WITH A PLASTIC PACKING BAND AROUND THE NECK, CUTTING INTO FLESH VENTRALLY. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 4 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | FISHING WIRE AROUND NECK; LESIONS ON ALL FLIPPERS; THIN; CONGESTION; RESPIRATION LABORED. EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 5 | HOOK AND LINE FISHERY | SANTA CRUZ | CA | SI | ANIMAL WITH UNSPECIFIED FISH HOOK INJURIES DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 5 | MARINE DEBRIS | LINCOLN | OR | SI | ADULT MALE CALIFORNIA SEA LION HAULED OUT ON PORT DOCK 1 WITH A PLASTIC PACKING BANDOR FISHING LINE WRAPPED VERY TIGHTLY AROUND THE NECK. VERY ACTIVE AND COMING AND GOING FROM THE SITE. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 5 | UNIDENTIFIED HUMAN INTERACTION | LOS ANGELES | CA | SI | LONG LINEAR LACERATION, LEFT REAR FLIPPER. UNDERWEIGHT ANIMAL TAKEN TO REHAB FACILITY, TREATED AND RELEASED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 6 | GILLNET FISHERY | COLUMBIA | OR | DEAD | GILL NET IN MOUTH AND THROAT; EVIDENCE IN NECK; ASPHYXIATION AND PULMONARY ASPIRATION CAUSED BY INGESTION OF GILL NET AND AMERICAN SHAD THAT WAS LODGED IN THROAT; TREMENDOUS HEMORRHAGE AND CLOTTING IN NECK. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 6 | HOOK AND LINE FISHERY | SAN DIEGO | CA | NSI | FISHING HOOK AND LINE IN LEFT FRONT FLIPPER NEAR BEND OF FLIPPER ON VENTRAL SIDE. REMOVED ON SITE, BUT HAD PUSS POCKET. TREATED AT REHAB FACILITY AND FISHING LINE IN MOUTH. TWO HOOKS SEEN, ONLY ONE WAS FOUND. TREATED IN REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 7 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | HOOK REMOVED FROM LEFT SIDE OF MUZZLE. HAD A LARGE LURE REMOVED BY VETERINARIAN. TREATED AND RELEASED FROM REHAB FACILITY. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 8 | OIL / TAR | SAN DIEGO | CA | SI | UNDERWEIGHT ANIMAL WITH TAR / OIL AND FISHING LINE ON FUR. RASPY COUGH. TREATED IN REHAB AND | NSI | P9 | 0 | N | N |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 8 | SHOOTING | CLATSOP | OR | DEAD | EVIDENCE FOUND IN BODY; HEMORRHAGE AND TISSUE DAMAGE LOCATED IN VARIOUS AREAS OF THE BODY; ANIMAL HAD EXCELLENT BODY CONDITION. NOAA ENFORCEMENT CASE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 9 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | FISHING HOOKS IN MOUTH. HOOKS REMOVED AT REHAB FACILITY, TREATED AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 9 | OIL / TAR | MARIN | CA | SI | APPROACHING PEOPLE, MODERATELY UNDERWEIGHT. TAR PATCHES ON VENTRUM AND DORSUM. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO CAPTIVE | CAPTIVITY | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO CAPTIVE | CAPTIVITY | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 13 | SHOOTING | SAN DIEGO | CA | SI | ABCESS ON LEFT SIDE, SUSPECTED GUNSHOT/PUNCTURE BLEEDING WOUND ON LEFT SHOULDER. DEHYDRATED, LETHARGIC. EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 14 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 14 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 14 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 16 | GILLNET FISHERY | SANTA BARBARA | CA | SI | MONOFILAMENT NETTING. DIED IN REHAB FACILITY. DETAILS NOT PROVIDED. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 16 | HOOK AND LINE FISHERY | SANTA CRUZ | CA | SI | UNDERWEIGHT ANIMAL WITH TWO FISH HOOKS IN THE HEAD. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 18 | GILLNET FISHERY | SANTA BARBARA | CA | SI | ANIMAL ENTANGLED IN MONOFILAMENT NETTING, DIED IN REHAB. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 18 | HARASSMENT | SANTA CRUZ | CA | SI | UNDERWEIGHT ANIMAL WITH PNEUMONIA HARASSED BY THE PUBLIC. TRANSFERRED TO PUBLIC DISPLAY FACILITY. | CAPTIVITY | P9 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 19 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 19 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 19 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 5 | 19 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-------------------------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 14 | OIL / TAR | VENTURA | CA | SI | ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT SHOULDER. ANIMAL HAD MULTIPLE SEIZURES ON THE BEACH BEFORE AND DURING RESCUE. 2 FULL BODY SEIZURES, ABOUT 1 MINUTE LONG EACH, FOLLOWED BY SEVERAL SHORTER SEIZURES. ON ARRIVAL TO FACILITY, TWITCHING FOLLOWED BY GRAND MAL SEIZURE (FACIAL TWITCHING, JACK SMACKING, FLIPPER FLAPPING). SEIZURES STOPPED AFTER FIVE MINUTES. SEIZURE ACTIVITY RESUMED LATER ON IN THE NIGHT AND AGAIN THE NEXT MORNING. ANIMAL EUTHANIZED IN REHAB | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 14 | OIL / TAR | SANTA BARBARA | CA | SI | ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN AROUND LEFT HIP AND LEFT CERVICAL REGION. MILD DEHYDRATION. MILD SWOLLEN VULVA. ANIMAL EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 14 | OIL / TAR | SANTA BARBARA | CA | SI | UNDERWEIGHT, DEHYDRATED, DIARRHEA. LESS THAN 2% EXTERNAL OILING SEEN ON LEFT SHOULDER. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 14 | OIL / TAR | SANTA BARBARA | CA | SI | UNDERWEIGHT, DEHYDRATED. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT HIP. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL REPOSE. RELEASED FROM REHAB FACILITY. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 14 | OIL / TAR | VENTURA | CA | SI | UNDERWEIGHT. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT SHOULDER, RIGHT AXILLARY, AND LEFT NECK. ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 16 | HOOK AND LINE FISHERY | ORANGE | CA | SI | HOOK IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 16 | OIL / TAR | SANTA BARBARA | CA | SI | LESS THAN 2% EXTERNAL OILING SEEN. DIED IN REHAB. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 16 | OIL / TAR | VENTURA | CA | SI | ANIMAL DIED IN REHAB FACILITY. EMACIATED. LACERATIONS ON FLIPPERS. LESS THAN 2% EXTERNAL SUSPECT OILING SEEN ON RIGHT LATERAL ELBOW. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 17 | HARASSMENT | ORANGE | CA | SI | ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL PUBLIC PICKING UP APPROX. 1 WEEK OLD PUP. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN. | SI | P14 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 17 | SHOOTING | SAN LUIS OBISPO | CA | SI | ANIMAL HAD MULTIPLE INJURIES (ENTANGLEMENT, VESSEL STRIKE, GUNSHOT). EUTHANIZED IN REHAB | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 18 | HOOK AND LINE FISHERY | SAN DIEGO | CA | DEAD | RESTRICTIVE ENTANGLEMENT OF MONOFILAMENT LINE AROUND NECK LACERATED BLUBBER AND MUSCLE, DOWN TO TRACHEA. LINE LIKELY LACERATED MAJOR ARTERY, WHICH WOULD HAVE CAUSED BLOOD LOSS AND DEATH. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 18 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | MODERATELY UNDERWEIGHT, TREBLE HOOK AND LURE IN REAR FLIPPER. TRANSFERRED TO PUBLIC DISPLAY FACILITY AFTER REHAB. | CAPTIVITY | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 18 | OPEN ACCESS CA HALIBUT BOTTOM TRAWL | OFFSHORE | CA | DEAD | HAULED ABOARD DEAD IN NET. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 18 | SHOOTING | LINCOLN | OR | SI | GUNSHOT WOUND TO HEAD. NO FURTHER DETAILS. | SI | P9 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 19 | OPEN ACCESS CA HALIBUT BOTTOM TRAWL | OFFSHORE | CA | DEAD | HAULED ABOARD DEAD IN NET. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 22 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | FISHING HOOK STUCK IN MOUTH. ACTIVE, ALERT, LOOSE STOOLS, FAIR BODY CONDITION. TREATED AND RELEASED FROM REHAB FACILITY. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 22 | OIL / TAR | VENTURA | CA | SI | SWOLLEN LEFT FLIPPER. LESS THAN 2% EXTERNAL OILING SEEN. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL WAS PICKED UP ALIVE FROM THE OIL SPILL ZONE. DIED IN CARE AT FORT MACARTHUR. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 6 | 23 | SHOOTING | UNKNOWN | OR | DEAD | EVIDENCE FROM BODY W/ASSOC. TRACKING WOUNDS AND TRAUMA; EXTENSIVE HEMORRHAGE IN HEAD AND BODY. ANIMAL HAD EXCELLENT BODY CONDITION. | DEAD | NA | 1 | N | Y |

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 5 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | ANIMAL SWALLOWED HOOK / LURE. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 6 | SHOOTING | MONTEREY | CA | DEAD | PHOTOS OF ENTRY AND EXIT WOUNDS IN HEAD AND UNDERWEIGHT ANIMAL WRAPPED IN FISHING LINE. TREATED AT REHAB FACILITY AND RELEASED. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 8 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | EMACIATED AND DEHYDRATED WITH FISH HOOK IN LEFT FOREFLIPPER. TRANSFERRED TO PUBLIC DISPLAY FACILITY. MONOFILAMENT WRAPPED TIGHTLY AROUND JAW. ANIMAL DIED IN REHAB. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 11 | HOOK AND LINE FISHERY | ORANGE | CA | NSI | GILLNET LACERATION AROUND NECK. TREATED AT REHAB FACILITY AND RELEASED. | CAPTIVITY | P5C | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 13 | HOOK AND LINE FISHERY | SANTA BARBARA | CA | SI | FISHING LINE AROUND NECK. TREATED IN REHAB AND RELEASED. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 17 | GILLNET FISHERY | LOS ANGELES | CA | SI | | NSI | P7B | 0 | Y | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 17 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 20 | SHOOTING | PACIFIC | WA | DEAD | A SINGLE CUT WAS MADE BY UNKNOWN PERSON(S) ALONG ENTIRE DORSAL MIDLINE; CLEAR BULLET/PELLET TRACK WITH CLOTTING ON SPLEEN; OTHER EVIDENCE HOLES AND TRACKS WITH ASSOCIATED HEMORRHAGE IN BODY; ANIMAL HAD EXCELLENT BODY CONDITION. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 23 | HOOK AND LINE FISHERY | SAN DIEGO | CA | NSI | YEARLING WITH SINGLE WRAP OF FISHING LINE AROUND NECK. NOT TIGHT, REMOVED. OTHERWISE GOOD CONDITION, UNDERWEIGHT. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 24 | OIL / TAR | MONTEREY | CA | SI | FOUND IN TUCK POSITION ON BEACH, LETHARGIC AND EMACIATED. TAR PATCH 6 CM X1 CM ON BACK BETWEEN SHOULDER BLADES. DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 29 | MARINE DEBRIS | ORANGE | CA | SI | PLASTIC BAG HANDLE AROUND EMACIATED ANIMAL'S NECK. OUTCOME UNKNOWN, TREATED CONSERVATIVELY AS SERIOUS INJURY BECAUSE OF LOCATION OF ENTANGLEMENT, WITH CAPACITY TO BE CONSTRICTING. | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 11 | 30 | GILLNET FISHERY | LOS ANGELES | CA | SI | GILL NECK INJURY AROUND NECK, UNDERWEIGHT, COUGHING. DIED AT REHAB FACILITY. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 5 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | HOOK IN LOWER RIGHT CHIN; HOOK IN RIGHT REAR FLIPPER; LOOSE LINE ON ANIMAL AND AROUND TAG; UNDERWEIGHT. TREATED IN REHAB AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 7 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | CONGESTED; THIN; MULTIPLE HOOKS IN MOUTH WITH SINKER. ANIMAL DIED IN REHAB. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 8 | SHOOTING | SAN DIEGO | CA | SI | ONE ANIMAL DISTURBED DURING RESCUE ON DOCK. ANIMAL WAS DARTED WITH APPROVAL FROM NATIONAL MARINE FISHERIES SERVICE. FISHING LINE STRAPPED AROUND HEAD VERTICALLY. FISHING LINE WRAPPED BEHIND EYES ON SKULL, LEFT EYE BULGING OUT OF SOCKET, POSSIBLY A HOOK CAUGHT IN EYE. ONE BULLET FOUND DURING XRAYs ON 12/9/15 LODGED IN BACK OF THROAT. REMOVED. TREATED AND RELEASED FROM | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 10 | MARINE DEBRIS | MONTEREY | CA | SI | UNDERWEIGHT ANIMAL WITH ENTANGLEMENT SCAR ON NECK DIED IN REHAB. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 15 | HOOK AND LINE FISHERY | LOS ANGELES | CA | NSI | EMACIATED; ULCERS ON TONGUE AND GUMS; LOST TOOTH LOWER LEFT JAW; HOOK PRESENT ON FRONT LEFT AXILLARY REGION OF LEFT FRONT FLIPPER. TREATED IN REHAB AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 17 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | MONOFILAMENT LINE AROUND NECK. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 20 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | UNDERWEIGHT ANIMAL WITH FISHING LINE AROUND NECK. TREATED IN REHAB AND RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 21 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | UNDERWEIGHT ANIMAL WITH MONOFILAMENT LINE AROUND NECK. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2015 | 12 | 30 | HOOK AND LINE FISHERY | ORANGE | CA | SI | TWO FISH HOOKS AND GILLNET AROUND NECK. TREATED AT REHAB AND RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2016 | 1 | 1 | SHOOTING | PIERCE | WA | DEAD | FRESH CARCASS WITH EVIDENCE OF SHOOTING / FRESH DEAD. VESSEL TRAUMA (SHARP AND BLUNT)8 ROUGHLY PARERALL LACERATION/ IMPRESSIONS EXTENDING FOR L SIDE TIP OF NOSE DOWN TO BASE OF TAIL. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 1 | 1 | VESSEL STRIKE | PIERCE | WA | DEAD | | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|--------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 18 | SHOOTING | CLATSOP | OR | DEAD | TREMENDOUS AND EXTENSIVE HEMORRHAGE IN BODY, ESP. AT NECK AND SCAPULAE AREAS; PERICARDIUM AND MEDIAL LUNGS HEMORRHAGED; INTESTINES TWISTED; ABDOMINAL CAVITY MODERATELY FILLED WITH BLOODY | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|-----------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 23 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 24 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | MALNOURISHED ANIMAL WITH FISHING ENTANGLEMENT, HOOK IN NOSTRIL; BACK AND CHEST HAVE HOOKS WITH FLIES AND SINKER. TREATED AND RELEASED FROM REHAB. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 24 | SHOOTING | SAN LUIS OBISPO | CA | SI | ANIMAL EUTHANIZED IN REHAB. NECROPSY SHOWED EVIDENCE OF SHOOTING. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 28 | HOOK AND LINE FISHERY | SAN MATEO | CA | SI | MODERATELY UNDERWEIGHT, SINGLE MONOFILAMENT LINE AROUND NECK, TISSUE HEALING AROUND LINE, TRAUMA TO RIGHT REAR FLIPPER WITH BONE EXPOSED. TREATED AND RELEASED FROM REHAB FACILITY. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 30 | MARINE DEBRIS | CLALLAM | OR | SI | CIRCUMFERENTIAL ENTANGLEMENT AROUND NECK, CONSTRICTING, MATERIAL UNKNOWN. NO RESCUE | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 30 | MARINE DEBRIS | CLALLAM | OR | SI | CIRCUMFERENTIAL ENTANGLEMENT AROUND NECK, CONSTRICTING, MATERIAL UNKNOWN. NO RESCUE | SI | P8A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 4 | 30 | SHOOTING | PACIFIC | WA | DEAD | EVIDENCE OF HOLES WITH ASSOCIATED TRACKS, CLOTTING, AND HEMORRHAGE; ADDITIONAL HEMORRHAGE IN VARIOUS AREAS OF THE BODY; INTESTINES TWISTED; THE ANIMAL HAD EXCELLENT BODY | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 2 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 2ND (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 4 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | FISHING LINE 'IN' MUZZLE AND LEFT FOREFLIPPER , TREATED AT REHAB FACILITY AND RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 4 | SHOOTING | ORANGE | CA | SI | PELLET REMOVED FROM HEAD DURING NECROPSY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 7 | MARINE DEBRIS | LOS ANGELES | CA | SI | GASTRIC DILATION DUE TO INGESTION OF LATEX GLOVES. DIED IN REHAB, NECROPSIED. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 9 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 9 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 5 | 9 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120. | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|----------------------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | NSI | ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY. | NSI | P4 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | NSI | ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY. | NSI | P4 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | NA | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | NA | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 10 | CATCHER PROCESSOR MIDWATER TRAWL | NA | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 12 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 12 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 12 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 12 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 12 | CATCHER PROCESSOR MIDWATER TRAWL | NA | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 13 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 13 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 13 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 13 | CATCHER PROCESSOR MIDWATER TRAWL | NA | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 14 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 14 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 14 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 14 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 14 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 15 | CATCHER PROCESSOR MIDWATER TRAWL | NA | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 16 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 16 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2016 | 11 | 16 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|---------------------------------------|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2017 | 7 | 26 | HOOK AND LINE FISHERY | SAN MATEO | CA | SI | MALNOURISHED ANIMAL WITH FISHING HOOK EMBEDDED IN MAXILLARY BUCCAL MUCOSA. EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 7 | 26 | HOOK AND LINE FISHERY | SANTA CRUZ | CA | SI | ONE TO TWO-INCH FISH HOOK WITH RED/YELLOW FEATHERS FOUND IN PYLORIC REGION OF STOMACH. GUNSHOT TRAUMA TO JAW. EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 8 | SHOOTING | SAN MATEO | CA | SI | FRESH DEAD ANIMAL WITH ENTANGLEMENT INJURY AROUND NECK AND CONFIRMED (VIA X-RAY) BULLET AND SEVERE SKULL FRACTURES. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 8 | GILLNET FISHERY | SAN DIEGO | CA | DEAD | FISHERY INTERACTION INDICATED BY LINEAR ABRASIONS AROUND BODY. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 11 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | FISH HOOK IN LIP. TREATED AND RELEASED FROM REHAB FACILITY. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 15 | HOOK AND LINE FISHERY | MONTEREY | CA | SI | EMACIATED, ALERT BUT NOT ACTIVE, FISH HOOK AND LINE FELL OUT OF CORNER OF MOUTH DURING RESCUE. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P5C | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 15 | OPEN ACCESS CA HALIBUT BOTTOM TRAWL | OFFSHORE | CA | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 18 | VESSEL STRIKE | SAN DIEGO | CA | DEAD | ANIMAL REPORTED WITH PROPELLER WOUNDS UNDERNEATH A DOCK. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 18 | SCIENTIFIC RESEARCH | SAN DIEGO | CA | DEAD | ANIMAL REMOTELY SEDATED AND DROWNED. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 23 | LIMITED ENTRY SABLEFISH HOOK AND LINE | OFFSHORE | OR | NSI | DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 23 | LIMITED ENTRY SABLEFISH HOOK AND LINE | OFFSHORE | OR | NSI | DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 23 | LIMITED ENTRY SABLEFISH HOOK AND LINE | OFFSHORE | OR | NSI | DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 23 | LIMITED ENTRY SABLEFISH HOOK AND LINE | OFFSHORE | OR | NSI | DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 8 | 23 | LIMITED ENTRY SABLEFISH HOOK AND LINE | OFFSHORE | OR | NSI | DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED. | NSI | P9 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 3 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | HEALTHY ANIMAL WITH MONOFILAMENT LINE WRAPPED AROUND NECK, CUTTING INTO ANIMAL APPROXIMATELY 1-INCH DEEP. 3 FEET OF TRAILING LINE. TREATED AT REHAB FACILITY AND RELEASED. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 8 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 12 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | FISH HOOK IN STOMACH. EUTHANIZED AT REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 17 | VESSEL STRIKE | VENTURA | CA | DEAD | CARCASS NEAR ANACAPA ISLAND WITH EVIDENCE OF A PROPELLER STRIKE. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 17 | CATCHER PROCESSOR MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 20 | SHOOTING | LOS ANGELES | CA | SI | LIVE ANIMAL BROUGHT TO REHAB CENTER WHERE RADIOGRAPHIC EVIDENCE INDICATED A BULLET. EUTHANIZED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 22 | HOOK AND LINE FISHERY | SANTA BARBARA | CA | SI | MONOFILAMENT LINE AROUND NECK. ANIMAL DIED IN REHAB FACILITY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 22 | HOOK AND LINE FISHERY | KITSAP | WA | SI | LURE FLASHER COMING OUT OF MOUTH. | SI | P2 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 28 | UNIDENTIFIED FISHERY INTERACTION | SAN DIEGO | CA | DEAD | 0.3 CM WIDE TAN/YELLOW ROPE WRAPPED TWICE AROUND IT'S NECK, CREATING A SEVERE CIRCUMFERENTIAL LACERATION EXTENDING INTO MUSCLE LAYER, WITH ASSOCIATED POOL OF BLOOD UNDERNEATH VENTRAL SIDE OF LACERATION | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 28 | MS CATCHER VESSELS MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 29 | HOOK AND LINE FISHERY | LOS ANGELES | CA | SI | RECORDS INDICATE ANIMAL DIED ON ITS WAY TO REHAB FACILITY WITH A HOOK AND LINE FISHERY INJURY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 9 | 29 | MS CATCHER VESSELS MIDWATER TRAWL | OFFSHORE | OR | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2017 | 10 | 1 | HOOK AND LINE FISHERY | MARIN | CA | SI | DETAILS LACKING, BUT A SEA LION WITH A HOOK AND LINE INJURY WAS TREATED AT A REHAB FACILITY AND | NSI | P5C | 0 | N | N |

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|---|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2018 | 2 | 21 | MARINE DEBRIS | SAN DIEGO | CA | SI | ANIMAL HAD A RUBBER BAND AROUND ITS MOUTH, SECURING THE MOUTH CLOSED. RUBBER BAND WAS REMOVED ON SITE AND THE ANIMAL WAS RELEASED IMMEDIATELY AFTER. | NSI | P7B | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2018 | 3 | 9 | SHOOTING | GRAYS HARBOR | WA | DEAD | PENETRATING PUNCTURE WOUNDS AT BOTH SIDES OF CHEST, ABLE TO TRACK AT LEAST ONE WOUND INTO CHEST CAVITY AND THROUGH LUNG. SMALL 1-2CM BULLET (PELLET) RECOVERED FROM INSIDE OF CHEST MALNOURISHED ANIMAL WITH OIL/TAR ON BODY. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 3 | 12 | OIL / TAR | LOS ANGELES | CA | SI | OUTCOME UNKNOWN. | SI | P9 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 3 | 29 | HOOK AND LINE FISHERY CA HALIBUT AND WHITE | ORANGE | CA | SI | EMACIATED AND DEHYDRATED ANIMAL WITH MULTIPLE FISH HOOKS. LOCATION OF HOOKS NOT REPORTED. NO ADDITIONAL DETAILS, OUTCOME UNKNOWN. BASED ON ANIMAL'S CONDITION, ASSUMPTION IS THAT HOOKS WERE LOCATED IN HEAD / MOUTH, POSSIBLY INTERFERING WITH FEEDING. | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 4 | SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 10 | OPEN ACCESS CA HALIBUT BOTTOM TRAWL | OFFSHORE | CA | DEAD | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 10 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 11 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 11 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 11 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 11 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 13 | HOOK AND LINE FISHERY | SAN DIEGO | CA | SI | FISHING LURE HANGING FROM MOUTH. APPEARS TO HAVE SWALLOWED HOOK. THIN. VERY ACTIVE AND AGGRESSIVE. .22 GAUGE BULLET FOUND ON X-RAY. LOCATED TO THE LEFT OF THE SPINE, MID-BODY, HALF-WAY DOWN THE BODY IN LENGTH. TWO ANIMALS DISTURBED DURING RESCUE. NO DETAILS ON WHETHER FINAL CONDITION WAS DEAD OR RELEASED POST-TREATMENT. ASSUMED TO BE A SERIOUS INJURY BASED | SI | P2 | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 17 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 17 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 18 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 19 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 19 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 20 | HOOK AND LINE FISHERY | ORANGE | CA | SI | FISH HOOK IN RIGHT SIDE OF MOUTH. ANIMAL EMACIATED AND DEHYDRATED. NO ADDITIONAL DETAILS. | SI | P5A | 1 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|---------------------|---------------|------|-------|-----|--|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 21 | SHOOTING | CLATSOP | OR | DEAD | ANIMAL WITH EXCELLENT BODY CONDITION WITH OBVIOUS HEMORRHAGE PATTERN ON HEAD AND NECK - LIKELY SHOOTING. | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 24 | CATCH SHARES BOTTOM TRAWL | OFFSHORE | OR | NSI | ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER. | NSI | P4 | 0 | N | N |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 24 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 24 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 24 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 24 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 25 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 28 | HOOK AND LINE FISHERY | ORANGE | CA | SI | EMACIATED AND DEHYDRATED ANIMAL WITH FISH HOOK IN MOUTH. OUTCOME UNKNOWN. | SI | P5A | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 4 | 28 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 1 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 1 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 1 | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 1 | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 2 | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 3 | OPEN ACCESS CA HALIBUT BOTTOM TRAWL | OFFSHORE | CA | DEAD | | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 3 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | ANIMAL KILLED IN GEAR. | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 3 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 3 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 3 | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |
| CALIFORNIA SEA LION | U.S. | 2018 | 5 | 8 | AUTHORIZED REMOVAL | COLUMBIA RIVER | WA | ALIVE | REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|------------------------------|---------------|------|-------|-----|--|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 6 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 7 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 7 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 7 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 8 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 8 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 1 | 18 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 3 | 7 | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 5 | 4 | CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 11 | 10 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 11 | 12 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 11 | 14 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 11 | 14 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 11 | 19 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 12 | 1 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 12 | 1 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 12 | 1 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 12 | 1 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2017 | 12 | 1 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2018 | 1 | 13 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | NA | 2018 | 6 | 5 | GILLNET FISHERY | VENTURA | CA | DEAD | TAIL APPEARED TO BE CUT OFF, SUSPECTED GILLNET INTERACTION. | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, SHORT-BEAKED | CA-OR-WA | 2018 | 12 | 9 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| COMMON DOLPHIN, UNIDENTIFIED | NA | 2018 | 1 | 13 | MARINE DEBRIS | ORANGE | CA | SI | FISHERMEN DISENTANGLED A LETHARGIC DOLPHIN THAT HAD LINE WRAPPED AROUND AND CUTTING INTO THE FLUKES. CONDITION OF ANIMAL INDICATES A SERIOUS INJURY. ENTANGLING MATERIAL UNKNOWN. | SI | S7B | 1 | N | Y |
| DALL'S PORPOISE | CA-OR-WA | 2014 | 11 | 10 | CA SWORDFISH DRIFT GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| DALL'S PORPOISE | CA-OR-WA | 2016 | 6 | 19 | GILLNET FISHERY | SAN JUAN | WA | DEAD | LACERATION ON FLUKE; LEFT SIDE OF TAIL HAS LINE INDENTATION FROM A NET ENTANGLEMENT; RIGHT SIDE OF FLUKE NOTCH HAS LINE FROM A NET ENTANGLEMENT. CALL RECEIVED FROM NAVAL BASE VENTURA COUNTY-PORT HIUENEME PORT OPERATIONS OF A DEAD WHALE FLOATING IN HARBOR NEXT TO SHIP. CIMWI VOLUNTEER WENT TO SITE TO CONFIRM. TOOK PICTURES. NOTIFIED STRANDING COORDINATOR-NMFS,BASE BIOLOGIST,CIMWI DIRECTOR, AND CIRCU. 7/30/14 ARRANGEMENTS BEING MADE BETWEEN NMFS AND NAVY TO HAVE WHALE TOWED TO A SITE FOR NECROPSY. NECROPSY PERFORMED BY MEMBERS OF NMFS,CIMWI,CIRCU,ETC. VESSEL ASSIST TOWED REMAINS OUT TO SEA. EXTERNAL AND INTERNAL EXAM AND | DEAD | NA | 1 | Y | Y |
| FIN WHALE | CA-OR-WA | 2014 | 7 | 29 | VESSEL STRIKE | VENTURA | CA | DEAD | | DEAD | NA | 1 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|-----------|---------------|------|-------|-----|----------------------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| FIN WHALE | CA-OR-WA | 2015 | 2 | 7 | UNIDENTIFIED FISHERY INTERACTION | ORANGE | CA | SI | 2.5 MILES WEST OF DANA POINT HARBOR. UNKNOWN GEAR BEHIND BLOWHOLE, APPEARS TO BE CONSTRICTING AND LOOKS TO EXTEND TOWARDS MOUTH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. VIDEO AND PHOTOS REVIEWED BY J. CARRETTA AND A. HENRY. | SI | L2 | 1 | Y | Y |
| FIN WHALE | CA-OR-WA | 2015 | 4 | 10 | VESSEL STRIKE | LOS ANGELES | CA | DEAD | MODERATE DECOMPOSITION. NECROPSIED. 307 PLATES OF BALEEN (LEFT), PARTS OF BROKEN VERTEBRA FROM CONTACT ZONE. | DEAD | NA | 1 | N | Y |
| FIN WHALE | CA-OR-WA | 2015 | 8 | 24 | VESSEL STRIKE | ALAMEDA | CA | DEAD | WHALE STUCK ON BOW OF VESSEL. CARCASS TOWED TO ANGEL ISLAND FOR NECROPSY. | DEAD | NA | 1 | N | Y |
| FIN WHALE | CA-OR-WA | 2015 | 10 | 9 | UNIDENTIFIED FISHERY INTERACTION | ORANGE | CA | SI | 2 MILES OFF DANA POINT. PHOTOS SHOW ROPE / LINE AROUND BODY OF TRAVELING WHALE, BEHIND BLOWHOLE BUT FORWARD OF PECTORAL FLIPPER AREA. LINE APPEARS TO BE TIGHT / CONSTRICTING AROUND ANIMAL. WHALE APPEARS SLIGHTLY EMACIATED. HEALTH DECLINE. PHOTOS REVIEWED BY J. CARRETTA AND A. | SI | L2 | 1 | Y | Y |
| FIN WHALE | CA-OR-WA | 2017 | 1 | 5 | VESSEL STRIKE | ALAMEDA | CA | DEAD | ANIMAL FIRST REPORTED OFF YERBA BUENA ISLAND ON 1/5/2017 BY USCG, WHEN A VESSEL APPEARED TO HAVE A CARCASS WRAPPED AROUND ITS BOW. THE CARCASS FELL OFF AS THE VESSEL TURNED TO APPROACH THE CHANNEL. CARCASS WAS THEN SEEN AGAIN FLOATING IN OAKLAND HARBOR ON 1/7/2017. DUE TO BAD WEATHER AND LOGISTICAL DELAYS IN GETTING CARCASS TOWED TO AN APPROPRIATE SITE (ANGEL ISLAND), A PARTIAL NECROPSY WAS CONDUCTED ON FEB. 6TH AND ANOTHER ON MARCH 2ND. FRACTURED RIBS WERE IDENTIFIED VIA NECROPSY AND CAUSE OF DEATH ATTRIBUTED TO VESSEL STRIKE. | DEAD | NA | 1 | N | Y |
| FIN WHALE | CA-OR-WA | 2017 | 5 | 12 | VESSEL STRIKE | PIERCE | WA | DEAD | FRESHLY-DEAD WHALE FOUND ON THE BOW OF A VESSEL AS IT APPROACHED COMMENCEMENT BAY. THIS WHALE WAS IN GOOD BODY CONDITION, WITH OILY BLUBBER AND A GOOD AMOUNT OF SUBCUTANEOUS FAT, AND HAD BEEN RECENTLY FEEDING ON A LARGE QUANTITY OF KRILL BASED ON BOTH STOMACH AND INTESTINAL CONTENTS AND SOME REMAINS FOUND IN THE BALEEN. THERE WAS A SIGNIFICANT AMOUNT OF HEMORRHAGE ALONG THE MID-BACK, WHICH WAS DETERMINED TO BE THE IMPACT POINT OF THE SHIP WHILE THE WHALE WAS ON 5/10/2018 NOAA RECEIVED A REPORT FROM S.F. BAY | DEAD | NA | 1 | N | Y |
| FIN WHALE | CA/OR/WA | 2018 | 5 | 16 | VESSEL STRIKE | ALAMEDA | CA | DEAD | HARBOR PILOTS ABOUT A DECEASED WHALE DRAPED ACROSS THE BOW OF A LARGE SHIP ENTERING THE BAY. WHALE WAS OBSERVED FALLING OFF THE BOW IN THE TURNING CHANNEL NEAR OAKLAND. ON 5/18/2018 THE MARINE MAMMAL CENTER RECEIVED A REPORT REGARDING A DECEASED WHALE PARTIALLY SUBMERGED, WEDGED BETWEEN POSTS AND PINNED UNDERNEATH A BRIDGE NEAR OAKLAND. ON 5/18, WHALE WAS TOWED TO ANGEL ISLAND FOR A NECROPSY. TWO VERTEBRAE OF THE UPPER LUMBAR REGION WERE DISPLACED 90 DEGREES FROM THE REMAINING LUMBAR VERTEBRAE. THE INTERVERTEBRAL DISC AND LIGAMENTOUS SUPPORT WERE COMPLETELY RUPTURED. DEGREE OF DISPLACEMENT WOULD SURELY HAVE SEVERED THE SPINAL CORD. NOTE THAT SINCE WHALE WAS TOWED BY TAIL, DEGREE OF ACTUAL DISPLACEMENT MAY HAVE BEEN REDUCED DURING TOWING (WHICH TENDS TO | DEAD | NA | 1 | N | Y |
| FIN WHALE | CA/OR/WA | 2018 | 5 | 22 | VESSEL STRIKE | MARIN | CA | DEAD | NECROPSY REPORT AND PHOTOS NOTE EXTENSIVE MUSCLE HEMMORHAGING, FRACTURES TO SKULL, RIBS, AND VERTEBRAE. CONSISTENT WITH VESSEL STRIKE AS CAUSE OF DEATH AS NOTED IN NECROPSY REPORT. | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|-------------|-----------------------------------|------|-------|-----|----------------------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| HARBOR SEAL | CALIFORNIA | 2016 | 8 | 26 | SHOOTING | MARIN | CA | SI | FOUND ALIVE IN SURF WITH BLEEDING FROM THE HEAD. APPROACHABLE, GOOD BODY CONDITION. RADIOLOGY AT TMMC FOUND A CRANIAL FRACTURE WITH A BULLET AND FRAGMENT SCATTER IN THE SOFT TISSUES OF THE LEFT SIDE OF THE HEAD. EUTHANIZED IN REHAB. | DEAD | NA | 1 | N | Y |
| HARBOR SEAL | WASHINGTON NORTHERN INLAND WATERS | 2016 | 8 | 27 | GILLNET FISHERY | NA | WA | DEAD | A HARBOR SEAL WAS FOUND FLOATING FRESHLY DEAD. A NECROPSY WAS CONDUCTED. THE EXAMINER NOTED LINEAR LINES/IMPRESSIONS ACROSS THE EYE. THE HEAD WAS ALSO BLOODY AND SWOLLEN, AND THE SKULL WAS LIKELY FRACTURED. IT APPEARED THE SEAL HAD BECOME ENTANGLED AND WAS THEN BLUDGEONED. GILLNET FISHING WAS OCCURRING NEARBY. | DEAD | NA | 1 | Y | Y |
| HARBOR SEAL | WASHINGTON NORTHERN INLAND WATERS | 2016 | 8 | 31 | VESSEL STRIKE | SAN JUAN | WA | DEAD | A FRESHLY DEAD HARBOR SEAL WAS FOUND STRANDED WITH TWO PARALLEL SLICES ON ITS DORSAL SIDE THAT APPEARED TO BE A PROPELLER INJURY. | DEAD | NA | 1 | N | Y |
| HARBOR SEAL | WASHINGTON NORTHERN INLAND WATERS | 2016 | 9 | 2 | GILLNET FISHERY | NA | WA | DEAD | A HARBOR SEAL WAS FOUND FLOATING DEAD IN A STATE OF MODERATE DECOMPOSITION. A NECROPSY WAS CONDUCTED. IN ADDITION TO LINEAR IMPRESSIONS, THE SEAL HAD THREE DEEP LINEAR CUTS ON THE HEAD AND SHOULDER. | DEAD | NA | 1 | Y | Y |
| HARBOR SEAL | CALIFORNIA | 2016 | 9 | 11 | SHOOTING | DEL NORTE | CA | DEAD | CARCASS NECROPSIED. APPARENT GUN SHOT WOUND TO THE HEAD, BULLET NOT FOUND. | DEAD | NA | 1 | N | Y |
| HARBOR SEAL | WASHINGTON NORTHERN INLAND WATERS | 2016 | 9 | 22 | HOOK AND LINE FISHERY | NA | WA | NSI | A HARBOR SEAL PUP WITH A 4 OZ FISHING LURE HOOKED TO ITS HIND FLIPPER WAS CAPTURED, THE HOOK WAS REMOVED, AND THE ANIMAL WAS RELEASED. | NSI | P5C | 0 | N | N |
| HARBOR SEAL | WASHINGTON NORTHERN INLAND WATERS | 2016 | 9 | 25 | GILLNET FISHERY | NA | WA | DEAD | A HARBOR SEAL WAS FOUND DEAD, FLOATING IN A HARBOR. THE SEAL HAD NET IMPRESSIONS / INDICATIONS ON ITS BODY AND GILLNET FISHING WAS OCCURING IN THE AREA. | DEAD | NA | 1 | Y | Y |
| HARBOR SEAL | SOUTHERN PUGET SOUND | 2016 | 9 | 29 | GILLNET FISHERY | NA | WA | DEAD | A HARBOR SEAL PUP WAS FOUND DEAD IN A STATE OF MODERATE DECOMPOSITION. THE PUP APPEARED AS IF IT HAD BEEN WRAPPED/ENTANGLED IN ROPE OR NET, AND THERE WAS SUBSTANTIAL HEMORRHAGE AROUND THE CHEST, LEADING EDGE OF FORE FLIPPERS, AND NOSE. THE ANIMAL ALSO HAD A PUNCTURED LEFT EYE. THERE WAS SALMON GILLNET FISHING OCCURING IN THE AREA. | DEAD | NA | 1 | Y | Y |
| HARBOR SEAL | CALIFORNIA | 2016 | 10 | 14 | SHOOTING | HUMBOLDT | CA | DEAD | CARCASS FOUND AT THE BASE OF INDIAN BEACH TRAIL STAIRS APPROXIMATELY 100 YARDS SOUTH. HOOK WAS EMBEDDED ON THE RIGHT SIDE OF THE ANIMALS NECK AND LINE WAS WRAPPED IN KELP MASS NEARBY. APPARENT GUN SHOT WOUND TO THE HEAD. PENETRATING WOUND WITH CLEAN MARGINS ON FRESH CARCASS WITH MINIMAL TO NO SCAVENGING PRESENT. | DEAD | NA | 1 | N | Y |
| HARBOR SEAL | HOOD CANAL | 2016 | 10 | 18 | UNIDENTIFIED FISHERY INTERACTION | NA | WA | DEAD | A HARBOR SEAL PUP WAS FOUND STRANDED WITH ALL TISSUE REMOVED FROM ITS SHOULDERS TO ITS EYES, AND WHAT APPEARED TO BE A PENETRATING GAFF WOUND ON ITS HEAD. | DEAD | NA | 1 | Y | Y |
| HARBOR SEAL | CALIFORNIA | 2017 | 2 | 10 | VESSEL STRIKE | MONTEREY | CA | DEAD | THREE LACERATIONS THAT RUN DIAGONALLY ACROSS THE BACK OF THE ANIMAL, EQUIDISTANT (22-24CM) FROM EACH OTHER . THE ANTERIOR AND POSTERIOR PROPELLER STRIKES BROKE THROUGH THE SKIN AND PROBABLY THE BLUBBER. THE MIDDLE PROPELLER STRIKE DID NOT BREAK SKIN BUT IS EVIDENT AS A SCAR WITH REMOVED FUR. BEYOND THIS APPARENT SCAVENGING HAS OBSCURED OBSERVATION OF HUMAN INTERACTION. BONES AT LEFT SIDE OF BACK OF SKULL ARE BROKEN. SLIGHTLY BLOATED AND EYES SCAVENGED. | DEAD | NA | 1 | N | Y |
| HARBOR SEAL | OREGON - WASHINGTON COAST | 2017 | 3 | 2 | SHOOTING | LINCOLN | CA | DEAD | DORSAL ENTRY WOUND APPROXIMATELY 1/2 INCH IN DIAMETER. EXIT WOUND ON VENTRUM. | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|----------------|---------------|------|-------|-----|--|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| HUMPBACK WHALE | CA-OR-WA | 2014 | 10 | 5 | VESSEL STRIKE | SAN DIEGO | CA | SI | DEEP LACERATION ACROSS BACK BETWEEN BLOWHOLE AND DORSAL FIN. LACERATION APPROXIMATELY 4 INCHES LONG AND 10 INCHES DEEP. MAINLY USING LEFT PECTORAL FLIPPER FOR MOBILITY, OCCASIONALLY FLUKES, NOT AT ALL WITH RIGHT PECTORAL FLIPPER. ASSUMPTION IS VESSEL STRIKE. DID NOT APPEAR TO BE TOO THIN, BUT IT WAS OBVIOUS THIS ANIMAL WAS UNABLE TO DIVE OR USE ITS RIGHT PECTORAL FLIPPER AND ONLY SOME MOVEMENT FROM TAIL FLUKES. | SI | L5A | 1 | N | Y |
| HUMPBACK WHALE | CA-OR-WA | 2014 | 10 | 11 | WA/OR/CA SABLEFISH POT FISHERY | OFFSHORE | OR | DEAD | A HUMPBACK WHALE WAS OBSERVED ENTANGLED DEAD IN SABLEFISH POT GEAR APPROX. 35 MILES W OF CANNON BEACH. THE ENTANGLEMENT OCCURRED IN 145 FATHOMS OF WATER AND THE WHALE WAS DISCOVERED WRAPPED IN THE GROUND LINE THREE POTS IN FROM THE END OF THE STRING. THE GROUND LINE IS REPORTED AS SINKING TYPE (LEAD LINE) WHEN BROUGHT TO THE SURFACE THE OBSERVER ON BOARD REPORTED THERE WAS NO DISCERNABLE MOVEMENT. | DEAD | NA | 1 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2014 | 10 | 12 | VESSEL STRIKE | SAN DIEGO | CA | SI | ANIMAL FIRST SIGHTED ALIVE OFF ORANGE COUNTY OCTOBER 3RD WITH HEALING DORSAL PROPELLOR WOUND AND LIMITED MOBILITY. SIGHTED ALIVE AGAIN OFF OCEANSIDE OCT. 6 AND DEL MAR OCT. 7, 3/4 MILE OFFSHORE. MULTIPLE VERTEBRAL, RIB, SCAPULAR FRACTURES, AND HEMORRHAGE OBSERVED AT NECROPSY. DETAILS OF LACERATION / INJURY LACKING WHEN ANIMAL SEEN ALIVE. | DEAD | NA | 1 | N | Y |
| HUMPBACK WHALE | CA-OR-WA | 2014 | 10 | 24 | SCIENTIFIC RESEARCH | MONTEREY | CA | SI | WHALE ENTANGLED AROUND CAUDAL PEDUNCLE IN A WAVE RIDER BUOY THAT STOPPED TRANSMITTING ON 4 OCTOBER. A TEAM WAS SENT TO CHECK ON BUOY FOUND THE ENTANGLED HUMPBACK WHALE IN BUOY LINES ON 24 OCTOBER. WHALE WAS DESCRIBED AS 'WEAK' AND 'STRUGGLING'. WHALE LICE (=CYAMIDS) WERE PRESENT AND THE CONDITION OF THE SKIN IMPLIED A HEALTH DECLINE. ENTANGLED IN BUNGEE BETWEEN 10 FT CHAIN AND LINE THAT RUNS TO 300 LB ANCHOR; VIDEO AND PHOTOS SHOWED SEVERE ENTANGLEMENT AND DEEP LACERATION AT CAUDAL PEDUNCLE WITH SUBSTANTIAL NECROTIC TISSUE. SUCCESSFULLY DISENTANGLED 10/29/14, BUT CONSIDERED A SERIOUS INJURY DUE TO CONSTRICTING NATURE OF GEAR, LENGTH OF TIME WHALE WAS ENTANGLED, NECROTIC CONDITION OF FLUKES, AND OVERALL POOR HEALTH OF WHALE. | SI | L2 | 1 | N | Y |
| HUMPBACK WHALE | CA-OR-WA | 2014 | 11 | 11 | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT | MONTEREY | CA | SI (PRORATE) | FREE-SWIMMING WHALE REPORTED AS ENTANGLED, LIKELY CRAB POT. UNKNOWN CONFIGURATION AND AMOUNT OF GEAR. FINAL OUTCOME UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 1 | 8 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI (PRORATE) | WHITE CIGAR BUOY ON LEFT SIDE OF WHALE BETWEEN MOUTH AND PECTORAL FIN, BLUE STEEL LINE OBSERVED, ABRASIONS ON LEADING EDGE OF FLUKES. ANIMAL WAS SEEN FLUKING / DIVING BASED ON PHOTOS. NOTHING ELSE WAS VISIBLE OTHER THAN THE WHITE CIGAR BUOY. PHOTOS REVIEWED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 1 | 19 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | MONTEREY | CA | SI (PRORATE) | 3 BUOYS TRAILING ABOUT 150 FT BEHIND THE WHALE WITH POSSIBLE MOUTH/PECTORAL FIN ENTANGLEMENT. CA DUNGENESS CRAB TIER 1 GEAR. WHALE WAS NOT FLUKING SO COULDN'T SEE THE TAIL. DIVING. SWIMMING ABOUT 5 KNOTS. WHALE SWIMMING AND DRAGGING 1ST FLOAT UNDERWATER. COULDN'T SEE WHERE LINE ORIGINATED. FRESH ABRASIONS VISIBLE ON TOP OF PEDUNCLE AND BEHIND DORSAL INDICATING RECENT MIGRATION OF THE GEAR FROM THE DORSAL FIN BACK TO THE TAIL. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|----------------|---------------|------|-------|-----|---|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| HUMPBACK WHALE | CA-OR-WA | 2015 | 5 | 24 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI (PRORATE) | STATIONARY WHALE BREATHING AT SURFACE, ASSOCIATED WITH BUOY WITH PARTIAL TAG NUMBER. WHALE APPARENTLY ANCHORED AS EVIDENCED BY LACK OF MOVEMENT. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN. NO PHOTOS. DISCOVERED 6/2/15 WHEN DANA WHARF SPORTFISHING EXAMINED 5/28 PHOTOS. AT LEAST ONE WRAP OF HEAVY GAUGE MONOFILAMENT LINE, LIKELY REPRESENTING LONGLINE GEAR, AROUND THE ANIMAL'S PEDUNCLE AND FLUKE. GEAR IS ALREADY DEEPLY EMBEDDED (=CONSTRICTING ENTANGLEMENT) AND WOUNDS APPEAR FRESH. AMOUNT AND CONFIGURATION OF GEAR TRAILING UNKNOWN. SI DETERMINATION CRITERION L2 APPLIED AS THERE IS EVIDENCE THAT GEAR IS CONSTRICTING. FINAL OUTCOME UNKNOWN. PHOTOS ENTANGLED WITH CRAB POT GEAR WHICH HAD BEEN LOST PREVIOUS YEAR. UNKNOWN DURATION OF ENTANGLEMENT, NO ASSUMPTION IS MADE THAT ENTANGLEMENT STARTED WHEN GEAR WAS LOST, AS GHOST GEAR IS ROUTINELY INVOLVED IN ENTANGLEMENTS AFTER LOSS. WHALE THRASHING AROUND IN RELATIVELY SHALLOW WATER. WHALE SELF-RELEASED FROM GEAR AND/OR GEAR BROKE FREE ON ROCKS IN SHALLOW WATER. THE FISHERY WAS IDENTIFIED BY BUOY NUMBERS. TRAP AND ROPE REPORTED AS 'EXTREMELY SHREDDED'. FISHERMAN CONFIRMED THAT ALL GEAR WAS RETRIEVED, THUS ASSIGNED A NON-SERIOUS INJURY BASED ON THE SELF-RELEASE OF ANIMAL. RESPONSE TEAM INCLUDED K. FORNEY, WHO RETRIEVED GEAR. PHOTOS OF WHALE NOT AVAILABLE. FINAL OUTCOME UNKNOWN. GEAR PHOTOS REVIEWED BY J. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 5 | 28 | UNIDENTIFIED FISHERY INTERACTION | ORANGE | CA | SI | CONSTRUCTING. FINAL OUTCOME UNKNOWN. PHOTOS ENTANGLED WITH CRAB POT GEAR WHICH HAD BEEN LOST PREVIOUS YEAR. UNKNOWN DURATION OF ENTANGLEMENT, NO ASSUMPTION IS MADE THAT ENTANGLEMENT STARTED WHEN GEAR WAS LOST, AS GHOST GEAR IS ROUTINELY INVOLVED IN ENTANGLEMENTS AFTER LOSS. WHALE THRASHING AROUND IN RELATIVELY SHALLOW WATER. WHALE SELF-RELEASED FROM GEAR AND/OR GEAR BROKE FREE ON ROCKS IN SHALLOW WATER. THE FISHERY WAS IDENTIFIED BY BUOY NUMBERS. TRAP AND ROPE REPORTED AS 'EXTREMELY SHREDDED'. FISHERMAN CONFIRMED THAT ALL GEAR WAS RETRIEVED, THUS ASSIGNED A NON-SERIOUS INJURY BASED ON THE SELF-RELEASE OF ANIMAL. RESPONSE TEAM INCLUDED K. FORNEY, WHO RETRIEVED GEAR. PHOTOS OF WHALE NOT AVAILABLE. FINAL OUTCOME UNKNOWN. GEAR PHOTOS REVIEWED BY J. | SI | L2 | 1 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 6 | 9 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | MONTEREY | CA | SI (PRORATE) | WHALE REPORTED AS FLOPPING AROUND IN NETTING 0.5 FROM SHORE. REPORT ALSO DETAILS A CRUSHED WHITE BUOY ASSOCIATED WITH THE SIGHTING. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN. GEAR PHOTOS REVIEWED BY J. | NSI | L3 | 0 | Y | N |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 6 | 12 | UNIDENTIFIED FISHERY INTERACTION | SANTA CRUZ | CA | SI (PRORATE) | REPORTED BY USCG. WHALE WITH BUOYS (ONE YELLOW, ONE WHITE) AND ROPE NEAR HEAD, ANOTHER BUOY NEAR FLUKES (NOT APPARENT IN PHOTOS). WHALE SHOWS RIDGE BETWEEN HEAD AND DORSAL FIN, INDICATING SOME EMACIATION AND APPARENT HEALTH DECLINE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA AND A. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 6 | 21 | UNIDENTIFIED FISHERY INTERACTION | SANTA CRUZ | CA | SI | WHALE REPORTED SWIMMING IN CIRCLES OFF CAPITOLA WITH YELLOW AND ORANGE BUOYS NEAR HEAD. NO PHOTOS. FULL GEAR CONFIGURATION UNKNOWN. LACK OF ORANGE BUOY(S) REPORTED FROM PREVIOUS-DAY WHALE IS EVIDENCE THAT THIS IS A UNIQUE CASE. AMOUNT AND CONFIGURATION OF GEAR AND FINAL OUTCOME UNKNOWN. | SI | L10 | 1 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 6 | 22 | UNIDENTIFIED FISHERY INTERACTION | SANTA CRUZ | CA | SI (PRORATE) | WHALE INITIALLY PHOTOGRAPHED ON 6/25 TRAILING THREE BUOYS AND APPROX. 125 FT. OF ROPE. DEEP LACERATIONS ON CAUDAL PEDUNCLE AND FLUKE / TAIL STOCK INTERSECTION, APPEARED TO BE FRESH WOUNDS. WHALE SUBSEQUENTLY PHOTOGRAPHED ON 7/16, STILL TRAILING GEAR. WHALE APPARENTLY SELF-RELEASED FROM GEAR AFTER SATELLITE PACKAGE WAS ATTACHED TO GEAR. GEAR WAS RECOVERED ON 7/24 AND IDENTIFIED AS DUNGENESS CRAB POT GEAR. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2015 | 6 | 25 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | MONTEREY | CA | SI | | NSI | L2 | 0 | Y | N |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|----------------|---------------|------|-------|-----|---|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| HUMPBACK WHALE | CA-OR-WA | 2017 | 6 | 18 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | MONTEREY | CA | SI (PRORATE) | TWO BUOYS ON RIGHT SIDE TRAILING BEHIND THE FLUKE, LINE (LIGHT OR WHITE) APPEARS TO BE RUNNING UNDERNEATH THE BODY FROM THE RIGHT PECTORAL FIN AND/OR UNDERNEATH THE HEAD OVER THE RIGHT SIDE OF FLUKES (AS NOTED FROM PHOTO/VIDEO); ADDITONAL SCARRING FROM OLD ENTANGLEMENT ON PEDUNCLE. FISHERY SOURCE CONFIRMED BY FISHERMAN VIA PHOTOS OF BUOYS AND TRAP NUMBERS. THE ENTANGLING GEAR HAD BEEN SET IN HALF MOON BAY. PREVIOUS SIGHTING OF THIS WHALE, KNOWN AS 'TRAINWRECK' WAS ON 5/22/2017 AND WAS NOT ENTANGLED AT THAT TIME. FINAL OUTCOME UNKNOWN, FULL CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. NO VISIBLE INJURIES OTHER THAN OLD SCARRING NEAR PEDUNCLE. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 6 | 23 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI | BLUE LINE BEHIND DORSAL FIN, CUTTING INTO ANIMAL. NO BUOYS VISIBLE. GEAR AMOUNT AND CONFIGURATION UNKNOWN. SERIOUS INJURY UNDER L2 BECAUSE OF CONSTRICTING WRAP ENTANGLEMENT. ANIMAL APPEARED TO BE LUNGE FEEDING. FINAL OUTCOME | SI | L2 | 1 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 6 | 25 | MARINE DEBRIS | SAN MATEO | CA | SI | WHALE STRUGGLING AT SURFACE AND ANCHORED IN PLACE, NOT RAISING ITS FLUKES OUT OF THE WATER AT ALL. NO GEAR VISIBLE, BUT APPARENT THAT WHALE IS ANCHORED BY SOMETHING. VIDEO / PHOTO REVIEWED BY J. CARRETTA. FINAL OUTCOME UNKNOWN. | SI | L2 | 1 | N | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 6 | 28 | VESSEL STRIKE | SAN FRANCISCO | CA | SI | CITIZEN TOOK PHOTO OF PLEASURE BOAT HITTING WHALE BELOW GOLDEN GATE BRIDGE. EXTENT OF INJURIES UNKNOWN, SPEED OF VESSEL UNKNOWN, BUT PROBABLY IN EXCESS OF 10KTS BASED ON PHOTO. APPEARS VESSEL IS APPROXIMATELY SAME SIZE AS WHALE. http://www.gulfster.com/Daily/2017PictureGallery/hump-back-whale-golden-gate/index.html | SI | L6B | 0.2 | N | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 7 | 2 | DUNGENESS CRAB POT FISHERY (WASHINGTON) | NA | WA | SI | WHALE WITH LINE WRAPPED AROUND AND CUTTING INTO ANIMAL, MIDWAY BETWEEN FLUKES AND DORSAL HUMP. DEEP AND EXTENSIVELY-WOUNDED AREA IS HEAVILY COVERED IN BARNACLES, INDICATING THE GEAR HAS BEEN ON THE WHALE FOR SOME TIME. CONSTRICTING ENTANGLEMENT. TRAILING AT LEAST TWO BUOYS. WHALE DISENTANGLEMENT TEAM REMOVED MOST GEAR ON 7/29/2017 IN SOUTHERN CA WATERS. WHALE WAS SUBSEQUENTLY SEEN, GEAR-FREE, SWIMMING AND TAIL-SLAPPING ON 7/30/2017 OFF SOUTHERN CALIFORNIA. WHALE APPEARS TO BE IN GOOD HEALTH WITH EXCEPTION OF ENTANGLEMENT INJURY, WHICH APPEARS PINK IN COLOR. GIVEN SEVERITY OF INJURY, SURVIVAL OF WHALE IS UNCERTAIN. FISHERY POSITIVELY-IDENTIFIED FROM RECOVERED GEAR TAG. PHOTOS / VIDEO REVIEWED BY J. CARRETTA. | SI | L5A | 1 | Y | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|----------------|---------------|------|-------|-----|--|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| HUMPBACK WHALE | CA-OR-WA | 2017 | 7 | 13 | WA/OR/CA SABLEFISH POT FISHERY AND CA/OR COONSTRIPE SHRIMP POT | DEL NORTE | CA | SI | ENTANGLEMENT INVOLVED 25 FT JUVENILE HUMPBACK WHALE TRAILING 400 YARDS OF LINE. SEVERAL SETS OF FIXED FISHING GEAR WRAPPED AROUND THE TAIL FLUKES, THE PECTORAL FINS, AND THE MOUTH. WHALE INITIALLY ENTANGLED IN SABLEFISH ANCHOR GEAR AND THEN DRAGGED THAT GEAR THROUGH SHRIMP GEAR, SO TWO FISHERIES WERE INVOLVED. THE GEAR HAD ANCHORED THE WHALE IN PLACE AND ANIMAL WAS UNABLE TO LIFT ITS FLUKES. DISENTANGLEMENT TEAM WORKED WITH LOCAL FISHERMEN IN A CAREFULLY PLANNED OPERATION TO HAUL UP SOME OF THE HEAVY GEAR WEIGHING DOWN THE TAIL. THAT CREATED ENOUGH SLACK TO LET THE WHALE SURFACE, ALLOWING THE TEAM TO MAKE THE NECESSARY CUTS TO REMOVE ALL THE ENTANGLING GEAR FROM THE WHALE. SHORT VIDEO POST-RELEASE SHOWS WHALE SWIMMING SLOWLY AT SURFACE. APPARENT BODY CONDITION APPEARS HEALTY FROM PHOTOS. DESIGNATED AS A NON-SERIOUS INJURY DUE TO RESCUE / | NSI | L2 | 0 | Y | N |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 7 | 23 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI | THICK BLUE LINE DEEPLY EMBEDDED BEHIND BLOWHOLE AND A WRAP OF LEFT PECTORAL FLIPPER, CONNECTING TO MOUTH. THE EMBEDDED LINE HAS CUT INTO THE BLUBBER LAYER OF THE WHALE. LINE AROUND LEFT FLIPPER HAS AN X-SHAPED CONFIGURATION AROUND BASE OF FLIPPER, INDICATING A CONSTRICTING WRAP. ANIMAL DESCRIBED AS AGITATED AND BREACHING, WITH TAIL SLAPPING BEHAVIOR. ANIMAL RESIGHTED 8/19/2017, STILL ENTANGLED. FINAL OUTCOME UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA. | SI | L2 | 1 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 8 | 23 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI | TWO LINES; ONE ACROSS OR JUST IN FRONT OF BLOW HOLE, ONE CLOSE BEHIND THE BLOWHOLE ON HEAD; SIGNIFICANT ABRASIONS NOTED ON UNDERSIDE OF TAIL STOCK AND LEADING EDGE OF THE FLUKE. WHALE WAS EMACIATED. GEAR AMOUNT AND CONFIGURATION UNKNOWN, BUT SERIOUS INJURY DUE TO APPARENT HEALTH DECLINE OF WHALE. PHOTOS REVIEWED BY J. | SI | L10 | 1 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 8 | 23 | UNIDENTIFIED FISHERY INTERACTION | COOS | OR | SI (PRORATE) | ENTANGLEMENT INVOLVED THE RIGHT FLIPPER AND THE TAIL, WITH LINE TRAILING TO TWO WHITE BUOYS ABOUT 50 TO 100' BEHIND THE WHALE. LINE WAS ALSO OBSERVED DESCENDING TOWARDS THE SEAFLOOR. EST - 3/8" LINE - LIGHT COLOR; DESCRIPTION DEEMED SPECIFIC AND DETAILED ENOUGH, COMING FROM A PROFESSIONAL MARINER, TO WARRANT CONFIRMATION EVEN THOUGH PHOTO IS OF LOW QUALITY AND DOES NOT PROVIDE EVIDENCE OF ENTANGLEMENT. SINGLE PHOTO REVIEWED BY J. CARRETTA, WHICH DOES NOT SHOW ENOUGH OF WHALE OR CONTEXT FOR FURTHER ASSESSMENT. GEAR AMOUNT AND CONFIGURATION UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 9 | 3 | DUNGENESS CRAB POT WASHINGTON TRIBAL | SAN DIEGO | CA | SI | VIDEO SHOWS MOTIONLESS WHALE WITH HIGH CYAMID LOAD. LINE COMING OUT OF RIGHT SIDE OF MOUTH AND ANOTHER PIECE ON RIGHT PECTORAL FLIPPER. DEEP LACERATION ON HEAD OF WHALE JUST ANTERIOR TO BLOWHOLE AND ANOTHER DEEP LACERATION ON THE RIGHT FLIPPER. GEAR RECOVERED BY MEMBERS OF THE PUBLIC AND EVENTUALLY IDENTIFIED AS WASHINGTON STATE TRIBAL DUNGENESS POT GEAR. SURVIVAL OF WHALE DOUBTFUL BASED ON HEALTH DECLINE. VIDEO REVIEWED BY J. CARRETTA. | SI | L5A | 1 | N | Y |
| HUMPBACK WHALE | CA-OR-WA | 2017 | 9 | 20 | UNIDENTIFIED FISHERY INTERACTION | ORANGE | CA | SI (PRORATE) | DISTANT PHOTOS OF BREACHING HUMPBACK SHOW BLUE/GREEN LINE UNDERNEATH BASE OF LEFT PECTORAL FLIPPER AND THROUGH BOTH SIDES OF MOUTH. NO FLOATS / BUOYS SEEN TRAILING. ANIMAL APPEARED TO BE IN GOOD HEALTH. GEAR AMOUNT AND CONFIGURATION UNKNOWN. PHOTOS REVIEWED BY J. | SI (PRORATE) | L10 | 0.75 | Y | Y |

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

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

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|----------------|---------------|------|-------|-----|--|------------------|-------|---------------------------|---|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| HUMPBACK WHALE | CA/OR/WA | 2018 | 9 | 21 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | SAN DIEGO | CA | DEAD | DEAD HUMPBACK CALF FOUND DURING CCES 2018 MARINE MAMMAL CRUISE. WHALE HAD LINE AND BUOYS WRAPPED AROUND TAIL. FISHERY CONFIRMED FROM TAG ON BUOY. PHOTOS REVIEWED BY J. CARRETTA. | DEAD | NA | 1 | Y | Y |
| HUMPBACK WHALE | CA/OR/WA | 2018 | 9 | 27 | UNIDENTIFIED FISHERY INTERACTION | SAN LUIS OBISPO | CA | SI | HUMPBACK NOT MOVING MUCH WITH CONSTRICTING LINE BETWEEN HEAD AND DORSAL FIN, POSSIBLY ANCHORED. LINE IS INDENTING INTO SKIN AND OTHER INDENTATION MARKS ARE SEEN FROM WHERE LINE HAS MIGRATED TOWARDS REAR OF WHALE. PRIVATE VESSEL INSTRUCTED PASSENGER TO JUMP INTO WATER AND CLIMB ON TOP OF WHALE TO CUT LINE AWAY. UNAUTHORIZED DISTENTANGLEMENT EVENT. WHALE DANGEROUSLY THRASHED ITS FLUKES UPON THIS INTERACTION AND APPEARED TO SWIM OFF AFTER CITIZEN CUT LINE. UNKNOWN IF ALL GEAR WAS REMOVED, THIS IS CONSIDERED A PARTIAL DISENTANGLEMENT. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. VIDEO REVIEWED BY J. CARRETTA. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA/OR/WA | 2018 | 9 | 29 | DUNGENESS CRAB POT FISHERY (CALIFORNIA) | MONTEREY | CA | NSI | HUMPBACK CALF WITH BLUE/GREEN LINE TRAILING 40-50 FEET WITH THREE BUOYS (GREEN/WHITE) ATTACHED TO RIGHT PECTORAL FLIPPER. GREEN CA DUNGENESS CRAB TAG SEEN ON THE FIRST BUOY. BASED ON AERIAL PHOTOS, LINE MAY BE ATTACHED TO UNDERSIDE OF FLIPPER. WHALE OTHERWISE IN GOOD HEALTH AS SHOWN IN PHOTOS. ACCOMPANIED BY MOTHER. PHOTOS REVIEWED BY J. CARRETTA. | NSI | L3 | 0 | N | N |
| HUMPBACK WHALE | CA/OR/WA | 2018 | 9 | 30 | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT | SAN LUIS OBISPO | CA | SI (PRORATE) | LINE ATTACHED TO WHALE AT UNKNOWN LOCATION AND CONFIGURATION WITH A RED AND WHITE BUOY ON THE SIDE OF THE WHALE NEAR THE PECTORAL FLIPPER. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. REPORTING PARTY DESCRIBED AS CRAB POT GEAR. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA/OR/WA | 2018 | 9 | 30 | UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT | SAN LUIS OBISPO | CA | SI (PRORATE) | WHALE TRAILING 3 BUOYS TOTAL. 1 "CRAB STYLE" LARGER BUOY WITH 2 SMALLER BUOYS. REPORTING PARTY THOUGHTT THEY MAY HAVE ALL BEEN WHITE OR HAD SOME WHITE ON THEM BUT COULDN'T REMEMBER FOR SURE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. DIFFERENTIATED FROM OTHER 9/30/2018 ENTANGLEMENT IN SAME AREA BY NUMBER AND COLOR | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA/OR/WA | 2018 | 10 | 12 | CA SPOT PRAWN TRAP FISHERY | MONTEREY | CA | SI (PRORATE) | HUMPBACK CALF ENTANGLED IN CONFIRMED COMMERICAL SPOT PRAWN GEAR WHICH WAS SET 2 DAYS PRIOR TO OBSERVATION AND PARTIAL RELEASE BY FISHERMAN. LARGE ORANGE BUOY NEAR FORWARD PART OF THE BODY WITH UNKNOWN ATTACHMENT POINT, LIKELY MOUTH OR PECTORAL FLIPPERS. FADED YELLOW BUOY TRAILING ABOUT 30FT BEHIND. BOTH ONLY VISIBLE WHEN SURFACING. FISHERMEN WINCHED UP CALF TO SIDE OF THE BOAT TO MAKE DISENTANGLEMENT CUTS. VERTICAL ASPECT PHOTO SHOWS LINE AND BUOY STILL ON TAIL AFTER REMOVED FROM GROUNDING LINE. NO FURTHER ACTION TAKEN AS WHALE SWAM OFF. AMOUNT AND CONFIGURATION OF REMAINING GEAR UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| HUMPBACK WHALE | CA/OR/WA | 2018 | 10 | 12 | DUNGENESS CRAB POT FISHERY (OREGON) | SAN MATEO | CA | SI | MULTIPLE WRAPS OF LINE EMBEDDED DEEPLY AT FLUKE INSERTION WITH 400 FEET OF TRAILING LINE. CONSTRICTING ENTANGLEMENT. WHALE HAD SEVERAL LARGE PATCHES OF ORANGE-COLORED CYAMIDS, INDICATING A HEALTH DECLINE. INITIAL DISENTANGLEMENT RESPONSE REMOVED APPROXIMATELY 350 FEET OF TRAILING LINE. A 2ND DISTENTANGLEMENT EFFORT REMOVED MOST OF THE LOOSE GEAR, BUT EMBEDDED LINE REMAINED. FISHERY POSITIVELY-IDENTIFIED FROM PERMIT TAG ON | SI | L2 | 1 | Y | Y |

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|------------------------|----------------------------|------|-------|-----|---|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 4 | 4 | OIL / TAR | MONTEREY | CA | NSI | MILDLY UNDERWEIGHT SEAL WITH TAR PATCHES PRESENT ON NECK AND SHOULDERS, GUMMY EYES. PEOPLE GETTING CLOSE TO TAKE PICTURES AND TOUCHING ANIMAL, PEOPLE TOSSING SAND AT IT. | NSI | P9 | 0 | N | N |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 4 | 21 | OIL / TAR | SANTA CRUZ | CA | SI | MALNOURISHED ANIMAL WITH TAR/OIL PATCHES, SMALL PUNCTURE WOUND ON RIGHT CHEEK. | SI | P9 | 1 | N | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 4 | 28 | HOOK & LINE FISHERY CA HALIBUT AND WHITE | LOS ANGELES | CA | SI | MALNOURISHED ANIMAL DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO DETAILS ON INJURY TYPE OR SEVERITY, OR OUTCOME. ASSUMING HOOKS WERE IN OR NEAR MOUTH DUE TO CONDITION OF ANIMAL. | SI | P5A | 1 | Y | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 5 | 2 | SEABASS SET GILLNET FISHERY | OFFSHORE | CA | DEAD | OBSERVER PROGRAM | DEAD | NA | 1 | Y | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 5 | 26 | OIL / TAR | GRAYS HARBOR | WA | SI | UNDERWEIGHT ANIMAL WITH TAR/OIL ON BODY. | SI | P9 | 1 | N | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 5 | 30 | HOOK & LINE FISHERY | SAN DIEGO | CA | NSI | ANIMAL IN GOOD BODY CONDITION WITH ONE FISHING HOOK IN LEFT REAR FLIPPER, AND ANOTHER HOOK ABOVE LEFT REAR FLIPPER. BOTH HOOKS REMOVED AND ANIMAL WAS RELEASED ON SITE. | NSI | P5C | 0 | N | N |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 6 | 4 | UNIDENTIFIED HUMAN INTERACTION | GRAYS HARBOR | WA | SI | HIND FLIPPER HAD BLOOD AND PUNCTURE WOUNDS, LACERATION ON RIGHT SIDE. ANIMAL WAS LETHARGIC, EMACIATED AND HAD MODERATE, YELLOWISH MUCOPURULENT DISCHARGE FROM THE EYES. ANIMAL WAS TAGGED AS A WEANED PUP ON 2/23/18 ON DRAKES BEACH IN POINT REYES NATIONAL SEASHORE. IT WAS RECORDED THAT THE ANIMAL WAS FEMALE, TAG NUMBER S834. ON 6/5 SEAL WAS EUTHANIZED DUE IT BEING UNRESPOSIVE ON THE BEACH. LACERATION ON RIGHT SIDE, SMALL LACERATION ON RIGHT FLIPPER, | DEAD | NA | 1 | N | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 9 | 4 | MARINE DEBRIS | MENDOCINO | CA | DEAD | MARINE DEBRIS ENTANGLEMENT. WRAPPED UP IN ROPE WITH BARNACLES ON IT. | DEAD | NA | 1 | N | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 10 | 14 | HARASSMENT | MARIN | CA | NSI | PATIENT FOUND LYING IN THE MIDDLE OF A GRAVEL ROAD WITH TOWELS ON IT THAT SOMEONE PUT OVER. PATIENT WAS ALSO MOLTING. NO OTHER DETAILS ON ANIMAL'S CONDITION. | NSI | P9 | 0 | N | N |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 10 | 20 | BERING SEA AND ALEUTIAN ISLANDS ATKA MACKEREL TRAWL | OFFSHORE | AK | SI | OBSERVER PROGRAM. ANIMAL RETURNED TO WATER INJURED. ALSO REPORTED VIA MMAP PROGRAM WITH CONDITION REPORTED AS "LISTNESSNESS / INABILITY TO DEFEND". | SI | P4 | 1 | Y | Y |
| NORTHERN ELEPHANT SEAL | CALIFORNIA | 2018 | 10 | 29 | MARINE DEBRIS | LOS ANGELES | CA | SI | A JUVENILE NORTHERN ELEPHANT SEAL WAS HAULED OUT AT SAN CLEMENTE ISLAND. THE ANIMAL HAD A WIDE (10 - 15 CM) RUBBER BAND CONSTRICTING ITS NECK. THE ANIMAL'S BODY CONDITION WAS GOOD, BUT THE RUBBER BAND IS MADE OF THICK MATERIAL AND WILL CONTINUE TO CONSTRICT THE ANIMAL AS IT GROWS. | SI | P8A | 1 | N | Y |
| NORTHERN FUR SEAL | EASTERN PACIFIC-CALIFORNIA | 2014 | 5 | 12 | UNIDENTIFIED FISHERY INTERACTION | LINCOLN | OR | DEAD | TWO FUR SEALS WERE FOUND DEAD AND ENTANGLED IN A MASSIVE WAD OF BLUE GREEN TRAWL NET. THIS IS FUR SEAL ONE OF TWO. | DEAD | NA | 1 | Y | Y |
| NORTHERN FUR SEAL | EASTERN PACIFIC-CALIFORNIA | 2014 | 5 | 12 | UNIDENTIFIED FISHERY INTERACTION | LINCOLN | OR | DEAD | TWO FUR SEALS WERE FOUND DEAD AND ENTANGLED IN A MASSIVE WAD OF BLUE GREEN TRAWL NET. THIS IS FUR SEAL ONE OF TWO. | DEAD | NA | 1 | Y | Y |
| NORTHERN FUR SEAL | EASTERN PACIFIC-CALIFORNIA | 2014 | 5 | 21 | UNIDENTIFIED FISHERY INTERACTION | CLATSOP | OR | DEAD | A FUR SEAL WAS FOUND DEAD AND A NECROPSY WAS CONDUCTED. A NET WAS RECOVERED, BUT NO INFORMATION ON THE CONFIGURATION OF THE NET WAS REPORTED. THE REPORTING PARTY INDICATED THE MORTALITY WAS FISHERIES RELATED. | DEAD | NA | 1 | Y | Y |
| NORTHERN FUR SEAL | EASTERN PACIFIC-CALIFORNIA | 2014 | 12 | 3 | OIL / TAR | MONTEREY | CA | SI | EMACIATED, LETHARGIC, NON-RESPONSIVE TO HUMAN CONTACT, AND ALERT. TAR SPOT ON LEFT SIDE. MATERNAL SEPARATION, PNEUMONIA, OIL. | SI | P1 | 1 | N | Y |
| NORTHERN FUR SEAL | EASTERN PACIFIC-CALIFORNIA | 2016 | 10 | 23 | AT-SEA HAKE PELAGIC TRAWL | NA | OR | DEAD | A NORTHERN FUR SEAL WAS CAUGHT AND KILLED IN TRAWL GEAR. | DEAD | NA | 1 | Y | Y |
| NORTHERN FUR SEAL | EASTERN PACIFIC-CALIFORNIA | 2016 | 12 | 3 | DOG ATTACK | SAN FRANCISCO | CA | DEAD | PUP NECROPSIED, CAUSE OF DEATH DETERMINED TO BE CANINE ATTACK. | DEAD | NA | 1 | N | Y |

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

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

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

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

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

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

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

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

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|--------------------|---------------|------|-------|-----|----------------------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| UNIDENTIFIED WHALE | NA | 2016 | 4 | 28 | UNIDENTIFIED FISHERY INTERACTION | SAN FRANCISCO | CA | SI (PRORATE) | WHALE SWIMMING NORTH WITH 2 BUOYS TRAILING, GEAR AMOUNT AND CONFIGURATION UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| UNIDENTIFIED WHALE | NA | 2016 | 5 | 13 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI (PRORATE) | WHALE INITIALLY SEEN DRAGGING A BLUE BUOY OFF JULIA PFEIFFER BURNS STATE PARK, TRAVELING NORTH WITH OTHER WHALES. DESCRIBED AS BIG BLUE PLASTIC BUOY STUCK TO WHALE'S SIDE. AMOUNT OF GEAR AND CONFIGURATION UNKNOWN. PHOTOS INCONCLUSIVE FOR SPECIES ID. PROBABLE SUBSEQUENT RESIGHTS IN MONTEREY BAY THE NEXT DAY, UNIDENTIFIED WHALE DESCRIBED AS DRAGGING BLUE OBJECT. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| UNIDENTIFIED WHALE | NA | 2016 | 5 | 15 | UNIDENTIFIED FISHERY INTERACTION | SAN MATEO | CA | SI (PRORATE) | NORTHBOUND WHALE TRAILING TWO CRAB BUOYS ABOUT 50-70 FT. BEHIND. 1 BUOY ORANGE AND THE OTHER SMALLER AND WHITE ABOUT 5 FEET FROM ORANGE BUOY. GEAR AMOUNT AND CONFIGURATION UNKNOWN VESSEL REPORTED ENTANGLEMENT IN 'CRAB GEAR' TO USCG. GEAR AMOUNT AND CONFIGURATION UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| UNIDENTIFIED WHALE | NA | 2016 | 5 | 23 | UNIDENTIFIED FISHERY INTERACTION | MONTEREY | CA | SI (PRORATE) | WHALE NOT MOVING, WITH ASSOCIATED LINE AND ORANGE BUOY. IN SAME AREA AS 9/26/2016 HUMPBACK WHALE THAT WAS NOT MOVING AND TOWING 4 ORANGE POLYBALLS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. EVIDENCE ANIMAL IS ANCHORED. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| UNIDENTIFIED WHALE | NA | 2016 | 9 | 28 | UNIDENTIFIED FISHERY INTERACTION | MARIN | CA | SI (PRORATE) | UNIDENTIFIED WHALE SWIMMING NORTH JUST OUTSIDE SURF LINE TRAILING A STYROFOAM BUOY NEAR THE DORSAL FIN. GEAR TYPE, AMOUNT AND CONFIGURATION UNKNOWN. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| UNIDENTIFIED WHALE | NA | 2018 | 5 | 13 | UNIDENTIFIED FISHERY INTERACTION | VENTURA | CA | SI (PRORATE) | A CONTAINER VESSEL (HORIZON SPIRIT) STRUCK A WHALE APPROXIMATELY 12NM SW OF SAN NICOLAS ISLAND. VESSEL REDUCED SPEED AFTER IMPACT. WHALE WAS ESTIMATED AT 45 FT IN LENGTH. NO ADDITIONAL DETAILS. SERIOUS INJURY BASED ON SIZE OF VESSEL AND ASSUMED TRAVEL SPEED (>10 KTS) IN THIS VICINITY. | SI | L6A | 1 | N | Y |
| UNIDENTIFIED WHALE | NA | 2018 | 6 | 2 | VESSEL STRIKE | VENTURA | CA | SI (PRORATE) | REPORT OF A WHALE TRAILING AN ORANGE BUOY FROM ITS MOUTH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. NO PHOTOS OR ADDITIONAL DETAILS. | SI (PRORATE) | L10 | 0.75 | Y | Y |
| UNIDENTIFIED WHALE | NA | 2018 | 8 | 20 | UNIDENTIFIED FISHERY INTERACTION | CURRY | OR | SI (PRORATE) | NEWS REPORT: A BREACHING WHALE CAUSED A 10-FOOT-LONG BOAT TO CAPSIZE WITH SEVEN PEOPLE ONBOARD IN BREAKWATER COVE. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION | SI (PRORATE) | L7B | 0.14 | N | Y |
| UNIDENTIFIED WHALE | NA | 2018 | 10 | 2 | VESSEL STRIKE | MONTEREY | CA | SI (PRORATE) | NEWS REPORT: OFF HOPKINS POINT, ACCORDING TO WITNESS MARGE BRIGADIER, A MAN WHO WAS BOATING WITH THE WOMAN SAID THEY WERE CRUISING THROUGH THE WATER WHEN THEY HIT A BUMP. "THEY HIT SOMETHING THAT HE THOUGHT COULD ONLY HAVE BEEN A WHALE. WOMAN WAS THROWN AGAINST A 20-FOOT-LONG POWER BOAT'S GLASS WINDSHIELD AND SUFFERED MODERATE INJURIES TO HER HEAD AND ARM. NEWS VIDEO SHOWS BROKEN WINDSHIELD AND BLOOD. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION L6B. | SI (PRORATE) | L6B | 0.2 | N | Y |
| UNIDENTIFIED WHALE | NA | 2018 | 10 | 2 | VESSEL STRIKE | MONTEREY | CA | SI (PRORATE) | NEWS REPORT: A BREACHING WHALE CAUSED A 10-FOOT-LONG BOAT TO CAPSIZE WITH SEVEN PEOPLE ONBOARD IN BREAKWATER COVE. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION | SI (PRORATE) | L7B | 0.14 | N | Y |

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

| Species | Stock or Area | Year | Month | Day | Interaction Type | County or Locale | State | Initial Injury Assessment | Comments | Final Injury Assessment | Serious Injury Criteria Code | Serious Injury Proration Value | Count Against LOF | Count Against PBR |
|--------------------|---------------|------|-------|-----|------------------|------------------|-------|---------------------------|--|-------------------------|------------------------------|--------------------------------|-------------------|-------------------|
| UNIDENTIFIED WHALE | NA | 2018 | 10 | 2 | VESSEL STRIKE | MONTEREY | CA | SI (PRORATE) | NEWS REPORT: OFF HOPKINS POINT, ACCORDING TO WITNESS MARGE BRIGADIER, A MAN WHO WAS BOATING WITH THE WOMAN SAID THEY WERE CRUISING THROUGH THE WATER WHEN THEY HIT A BUMP. "THEY HIT SOMETHING THAT HE THOUGHT COULD ONLY HAVE BEEN A WHALE. WOMAN WAS THROWN AGAINST A 20-FOOT-LONG POWER BOAT'S GLASS WINDSHIELD AND SUFFERED MODERATE INJURIES TO HER HEAD AND ARM. NEWS VIDEO SHOWS BROKEN WINDSHIELD AND BLOOD. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION L6B. | SI (PRORATE) | L6B | 0.2 | N | Y |