

Table 3. California sea lion human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
GILLNET FISHERY, TRIBAL	175	175
HOOK AND LINE FISHERY	166	95
AUTHORIZED MMPA SEC. 120 REMOVAL	151	151
SHOOTING	135	131
CATCHER PROCESSOR MIDWATER TRAWL	93	83
MARINE DEBRIS	59	39
CATCH SHARES BOTTOM TRAWL	34	13
OPEN ACCESS CA HALIBUT BOTTOM TRAWL	34	31
GILLNET FISHERY	30	19
MS CATCHER VESSELS MIDWATER TRAWL	19	19
UNIDENTIFIED FISHERY INTERACTION	17	13
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	15	15
VESSEL STRIKE	13	13
LIMITED ENTRY SABLEFISH HOOK AND LINE	8	2
HARASSMENT	7	6
CA SWORDFISH DRIFT GILLNET FISHERY	6	6
OIL / TAR	6	3
SCIENTIFIC RESEARCH	5	5
TROLL FISHERY, TRIBAL	5	5
WEST COAST GROUND FISH FISHERY	4	4
UNIDENTIFIED HUMAN INTERACTION	3	3
VEHICLE COLLISION	3	3
CATCH SHARES HOOK AND LINE	2	1
RIDGEBACK PRAWN BOTTOM TRAWL	2	0
BLUNT FORCE TRAUMA	1	1
CA LOBSTER TRAP / POT ENTANGLEMENT	1	0
HAKE MIDWATER TRAWL	1	0
MIDWATER TRAWL ROCKFISH EM	1	1
NEARSHORE HOOK AND LINE	1	1
SEA CUCUMBER BOTTOM TRAWL	1	1

Table 4. Harbor seal human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
GILLNET FISHERY, TRIBAL	119	119
HARASSMENT	100	98
SHOOTING	37	37
GILLNET FISHERY	36	35
VESSEL STRIKE	21	21
HOOK AND LINE FISHERY	13	10
MARINE DEBRIS	9	9
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	8	8
DOG ATTACK	8	7
UNIDENTIFIED FISHERY INTERACTION	5	5
UNIDENTIFIED HUMAN INTERACTION	3	3
OPEN ACCESS CA HALIBUT BOTTOM TRAWL	2	2
VEHICLE COLLISION	2	2
OIL / TAR	1	1
POT FISHERY, TRIBAL	1	1

Table 5. Humpback whale human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
UNIDENTIFIED FISHERY INTERACTION	58	43.75
DUNGENESS CRAB POT FISHERY (CALIFORNIA)	34	23.75
VESSEL STRIKE	14	13.20
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	13	9.50
DUNGENESS CRAB POT FISHERY (WASHINGTON)	7	5.50
GILLNET FISHERY	6	2.00
CA SPOT PRAWN TRAP FISHERY	5	3.25
GILLNET FISHERY, TRIBAL	3	2.50
DUNGENESS CRAB POT FISHERY (COMMERCIAL)	2	2.00
DUNGENESS CRAB POT FISHERY (OREGON)	2	1.75
DUNGENESS CRAB POT FISHERY (RECREATIONAL)	2	1.00
WA/OR/CA SABLEFISH POT FISHERY	2	1.50
HOOK AND LINE FISHERY	1	0.75
MARINE DEBRIS	1	1.00
POT FISHERY, TRIBAL	1	1.00
SPOT PRAWN TRAP/POT FISHERY (RECREATIONAL)	1	0.00
WA/OR/CA SABLEFISH POT FISHERY AND CA COONSTRIPE SHRIMP POT FISHERY	1	0.00

Table 6. Gray whale human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
VESSEL STRIKE	21	19.00
UNIDENTIFIED FISHERY INTERACTION	19	16.00
GILLNET FISHERY	11	9.25
DUNGENESS CRAB POT FISHERY (WASHINGTON)	6	4.75
MARINE DEBRIS	4	2.75
DUNGENESS CRAB POT FISHERY (CALIFORNIA)	2	2.00
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	2	1.75
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	1	1.00
CA SWORDFISH DRIFT GILLNET FISHERY	1	1.00
DUNGENESS CRAB POT FISHERY (COMMERCIAL)	1	1.00
GILLNET FISHERY, TRIBAL	1	1.00
ILLEGAL HUNT	1	1.00
SALMON GILLNET FISHERY	1	0.75

Table 7. Northern elephant seal human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
OIL / TAR	16	15
HARASSMENT	12	5
MARINE DEBRIS	8	4
CA SWORDFISH DRIFT GILLNET FISHERY	4	4
HOOK AND LINE FISHERY	3	2
SHOOTING	3	3
CATCHER PROCESSOR MIDWATER TRAWL	2	2
DOG ATTACK	2	2
VESSEL STRIKE	2	2
BERING SEA AND ALEUTIAN ISLANDS ATKA MACKEREL TRAWL	1	1
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	1	1
CATCH SHARES BOTTOM TRAWL	1	1
CATCH SHARES POT	1	1
DUNGENESS CRAB POT FISHERY (CALIFORNIA)	1	1
GULF OF ALASKA PACIFIC COD LONGLINE	1	1
GULF OF ALASKA SABLEFISH LONGLINE	1	1
MIDWATER HAKE TRAWL	1	1
MIDWATER ROCKFISH TRAWL	1	1
MS CATCHER VESSELS MIDWATER TRAWL	1	1
OPEN ACCESS CA HALIBUT BOTTOM TRAWL	1	1
UNIDENTIFIED HUMAN INTERACTION	1	1
VEHICLE COLLISION	1	1
WEST COAST GROUND FISH TRAWL	1	1

Table 8. Guadalupe fur seal human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
UNIDENTIFIED FISHERY INTERACTION	23	19
MARINE DEBRIS	16	13
HAWAII LONGLINE SHALLOW SET FISHERY	10	4
GILLNET FISHERY	4	4
SHOOTING	2	2
TRAWL FISHERY UNIDENTIFIED	2	2
UNIDENTIFIED HUMAN INTERACTION	2	2
HOOK AND LINE FISHERY	1	0
UNIDENTIFIED NET FISHERY	1	1

Table 9. Harbor porpoise human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
GILLNET FISHERY	13	13
GILLNET FISHERY, TRIBAL	10	10
UNIDENTIFIED FISHERY INTERACTION	10	10
UNIDENTIFIED NET FISHERY	4	4
VESSEL STRIKE	2	2

Table 10. Short-beaked Common dolphin human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
CA SWORDFISH DRIFT GILLNET FISHERY	34	34
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	3	3
GILLNET FISHERY	1	1

Table 11. Long-beaked Common dolphin human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
GILLNET FISHERY	23	23
UNIDENTIFIED FISHERY INTERACTION	4	4
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	2	2
CA SWORDFISH DRIFT GILLNET FISHERY	2	2
CA SPOT PRAWN TRAP FISHERY	1	1
HOOK AND LINE FISHERY	1	1

Table 12. Pacific white-sided dolphin human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
SCIENTIFIC RESEARCH	14	14
CATCH SHARES BOTTOM TRAWL	1	1
CATCHER PROCESSOR MIDWATER TRAWL	1	1
GILLNET FISHERY	1	1

Table 13. Blue whale human-related injury and mortality sources, number of cases, and total mortality and serious injury (MSI.Total), 2016 - 2020.

Source	Cases	MSI.Total
UNIDENTIFIED FISHERY INTERACTION	6	3.75
VESSEL STRIKE	4	4.00
DUNGENESS CRAB POT FISHERY (CALIFORNIA)	3	2.75