

**Table 6.4.2a WEST COAST REGION FISH BYCATCH BY FISHERY (2015)** Fishery bycatch ratio = bycatch / (bycatch + landings).

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>California Drift Gillnet (Mesh Size &gt;14 in) for Swordfish and</b>					
Blue shark	Prionace glauca	68.30	INDIVIDUAL		
Ocean sunfish	Mola mola	409.78	INDIVIDUAL		
Opah	Lampris guttatus	4.88	INDIVIDUAL		
Pacific bluefin tuna	Thunnus orientalis	14.64	INDIVIDUAL		
Pelagic stingray	Pteroplatytrygon violacea	4.88	INDIVIDUAL		
Salmon shark	Lamna ditropis	53.66	INDIVIDUAL		
Shortfin mako	Isurus oxyrinchus	14.64	INDIVIDUAL		
Skipjack tuna	Katsuwonus pelamis	39.03	INDIVIDUAL		
Slender mola	Ranzania laevis	19.51	INDIVIDUAL		
Striped marlin	Kajikia audax	14.64	INDIVIDUAL		
Thresher shark	Alopias vulpinus	4.88	INDIVIDUAL		
<b>TOTAL FISHERY BYCATCH</b>		648.84	INDIVIDUAL		
<b>TOTAL FISHERY LANDINGS</b>		237,994.00	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		**			
<b>California Halibut Trawl <sup>1,3</sup></b>					
American shad	Alosa sapidissima	165.52	POUND	0.26	
Anchovy (unidentified)	Engraulidae	66.21	POUND	0.40	
Armed box crab	Platymera gaudichaudii	102.53	POUND	0.17	
Barred sand bass	Paralabrax nebulifer	1.80	POUND	0.06	
Bat ray	Myliobatis californica	90,566.60	POUND	0.19	
Bay pipefish	Syngnathus leptorhynchus	0.60	POUND	0.08	
Big skate	Raja binoculata	64,881.99	POUND	0.15	
Bigmouth sole	Hippoglossina stomata	1.20	POUND	0.06	
Bivalves (unidentified)	Bivalvia	32.71	POUND	0.27	
Bluntnose sevengill shark	Notorynchus cepedianus	399.59	POUND	0.39	
Bluntnose sixgill shark	Hexanchus griseus	38.94	POUND	0.06	
Brown irish lord sculpin	Hemilepidotus spinosus	0.90	POUND	0.06	
Brown rockfish - Pacific Coast	Sebastes auriculatus	138.10	POUND	0.46	
Brown smoothhound shark	Mustelus henlei	19,804.62	POUND	0.22	
C-o (c-o turbot) sole	Pleuronichthys coenosus	3.31	POUND	0.06	
Cabazon	Scorpaenichthys marmoratus	4.51	POUND	0.06	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
California halibut	<i>Paralichthys californicus</i>	24,874.03	POUND	0.10	
California lizardfish	<i>Synodus lucioceps</i>	31.54	POUND	0.24	
California scorpionfish	<i>Scorpaena guttata</i>	4.51	POUND	0.15	
California skate	<i>Raja inornata</i>	31,552.88	POUND	0.13	
California tonguefish	<i>Symphurus atricaudus</i>	1.95	POUND	0.28	
Canary rockfish	<i>Sebastes pinniger</i>	20.90	POUND	0.06	
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	650.06	POUND		
Crab (unidentified)	<i>Brachyura</i>	84.19	POUND	0.52	
Curlfin sole	<i>Pleuronichthys decurrens</i>	10,325.51	POUND	0.22	
Decorator/spider crab (unidentified)	<i>Majoidea</i>	44.80	POUND	0.16	
Diamond turbot	<i>Hypsopsetta guttulata</i>	722.31	POUND	0.27	
Dungeness crab	<i>Cancer magister</i>	292,088.71	POUND	0.09	
English sole - Pacific Coast	<i>Parophrys vetulus</i>	3,937.16	POUND	0.16	
Fantail sole	<i>Xystreurys liolepis</i>	269.10	POUND	0.14	
Filetail cat shark	<i>Parmaturus xaniurus</i>	17.44	POUND	0.06	
Flatfishes (unidentified)	<i>Pleuronectiformes</i>	84.19	POUND	0.62	
Giant sea bass	<i>Stereolepis gigas</i>	0.75	POUND	0.06	
Graceful crab	<i>Cancer gracilis</i>	825.08	POUND	0.19	
Green sturgeon	<i>Acipenser medirostris</i>	8,632.18	POUND		
Hermit crab (unidentified)	<i>Paguroidea</i>	2.10	POUND	0.06	
Hornyhead turbot	<i>Pleuronichthys verticalis</i>	442.05	POUND	0.36	
Invertebrates (unidentified)		3,006.73	POUND	0.06	
Irregular echinoids	<i>Echinoidea</i>	1,709.09	POUND	0.80	
Jack mackerel - Pacific Coast	<i>Trachurus symmetricus</i>	13.23	POUND	0.44	
Kelp crab (unidentified)	<i>Pugettia</i>	2.71	POUND	0.25	
Leopard shark	<i>Triakis semifasciata</i>	6,249.07	POUND	0.20	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	136.81	POUND	0.26	
Longfin sanddab	<i>Citharichthys xanthostigma</i>	1.80	POUND	0.25	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	143.12	POUND	0.06	
Longspine combfish	<i>Zaniolepis latipinnis</i>	180.19	POUND	0.25	
Mantis shrimp	<i>Stomatopoda</i>	1.20	POUND	0.06	
Midshipman (toadfish) (unidentified)	<i>Porichthys</i>	13.83	POUND	0.40	
Non-humboldt squid (unidentified)	<i>Teuthida</i>	88.61	POUND	0.18	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Northern anchovy	Engraulis mordax	97.96	POUND	0.35	
Nudibranch (unidentified)	Nudibranchia	0.75	POUND	0.06	
Ocean sunfish	Mola mola	404.71	POUND	0.20	
Octopus (unidentified)	Octopoda	18.49	POUND	0.65	
Other identified fish		601.35	POUND	0.95	
Pacific angel shark	Squatina californica	391.78	POUND	0.36	
Pacific electric ray	Torpedo californica	2,561.07	POUND	0.15	
Pacific herring	Clupea pallasii	19.51	POUND	0.37	
Pacific pompano	Peprilus simillimus	68.58	POUND	0.47	
Pacific rock crab	Cancer antennarius	222.59	POUND	0.25	
Pacific sand lance	Ammodytes hexapterus	4.24	POUND	0.44	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	3,397.97	POUND	0.22	
Pacific staghorn sculpin	Leptocottus armatus	357.11	POUND	0.25	
Pelagic thresher	Alopias pelagicus	111.25	POUND	0.06	
Petrale sole - Pacific Coast	Eopsetta jordani	187.53	POUND	0.28	
Pile surfperch	Rhacochilus vacca	1.35	POUND	0.06	
Pink seaperch	Zalembeus rosaceus	2.10	POUND	0.10	
Plainfin midshipman	Porichthys notatus	78.60	POUND	0.14	
Poachers (unidentified)	Agonidae	10.07	POUND	0.10	
Red rock crab	Cancer productus	5,520.33	POUND	0.15	
Rex sole - Pacific Coast	Glyptocephalus zachirus	9.92	POUND	0.63	
Rock crabs	Decapoda	6.01	POUND	0.06	
Rock sole	Paraplagusia bilineata	2,293.17	POUND	0.45	
Round stingray	Urobatis halleri	12.03	POUND	0.15	
Salmon (unidentified)	Oncorhynchus	30.07	POUND		
Sand dollar (unidentified)	Clypeasteroidea	8.87	POUND	0.06	
Sand sole - Pacific Coast	Psettichthys melanostictus	6,122.49	POUND	0.24	
Sarcastic fringehead	Neoclinus blanchardi	1.80	POUND	0.08	
Sculpins (unidentified)	Cottidae	471.00	POUND	0.34	
Sea anemones (unidentified)	Actiniaria	214.86	POUND	0.44	
Sea cucumbers (unidentified)	Holothuroidea	9.02	POUND	0.06	
Sea snail (unidentified)		198.08	POUND	0.35	
Sea stars	Asteroidea	65.82	POUND	0.17	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sea urchins	Echinoidea	14.43	POUND	0.65	
Sharks (unidentified)	Elasmobranchii	1,187.66	POUND	0.68	
Sheep crab	Loxorhynchus grandis	2,493.03	POUND	0.17	
Shiner surfperch	Cymatogaster aggregata	4.51	POUND	0.06	
Shovelnose guitarfish	Rhinobatos productus	302.33	POUND	0.30	
Shrimp (unidentified)	Decapoda	16.66	POUND	0.41	
Skates (unidentified)	Rajidae	544.22	POUND	0.16	
Speckled sanddab	Citharichthys stigmaeus	21.17	POUND	0.16	
Spiny dogfish - Pacific Coast	Squalus acanthias	5,210.18	POUND	0.22	
Spotfin surfperch	Hyperprosopon anale	49.58	POUND	0.28	
Spotted batfish	Zalieutes elater	0.90	POUND	0.06	
Spotted cusk-eel	Chilara taylori	0.60	POUND	0.06	
Spotted ratfish	Hydrolagus colliciei	6.61	POUND	0.06	
Starry flounder - Pacific Coast	Platichthys stellatus	2,501.63	POUND	0.28	
Starry skate	Raja stellulata	199.35	POUND	0.40	
Striped bass	Morone saxatilis	12,776.17	POUND	0.17	
Swell shark	Cephaloscyllium ventriosum	136.05	POUND	0.38	
Thornback	Platyrhinoidis triseriata	4,092.13	POUND	0.26	
Thresher shark	Alopias vulpinus	601.35	POUND	0.13	
Thresher sharks	Alopias	135.30	POUND	0.06	
Vermilion rockfish	Sebastes miniatus	2.71	POUND	0.25	
White croaker	Genyonemus lineatus	5,739.22	POUND	0.23	
White seabass	Atractoscion nobilis	16.69	POUND	0.99	
White sturgeon	Acipenser transmontanus	240.54	POUND	0.06	
Whitebait smelt	Allosmerus elongatus	1.65	POUND	0.46	
Xantus swimming crab	Portunus xantusii	1.20	POUND	0.19	
Yellow rock crab	Cancer anthonyi	78.18	POUND	0.14	
<b>TOTAL FISHERY BYCATCH</b>		622,241.49	POUND		
<b>TOTAL FISHERY LANDINGS</b>		255,177.00	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		877,418.49	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.71			
<b>California/Oregon Nearshore Rockfish<sup>1,3</sup></b>					
Barred sand bass	Paralabrax nebulifer	9,475.40	POUND	0.25	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Bat ray	<i>Myliobatis californica</i>	2,744.25	POUND	0.12	
Bivalves (unidentified)	<i>Bivalvia</i>	9.48	POUND	0.06	
Black croaker	<i>Cheilotrema saturnum</i>	55.02	POUND	0.13	
Black rockfish	<i>Sebastes melanops</i>	22,657.76	POUND	0.12	
Black surfperch	<i>Embiotoca jacksoni</i>	10,535.59	POUND	0.21	
Black-and-yellow rockfish	<i>Sebastes chrysomelas</i>	1,245.41	POUND	0.23	
Blacksmith	<i>Chromis punctipinnis</i>	337.51	POUND	0.57	
Blue rockfish	<i>Sebastes mystinus</i>	35,313.34	POUND	0.17	
Brittle/basket star (unidentified)	<i>Ophiuroidea</i>	0.47	POUND	0.06	
Brown irish lord sculpin	<i>Hemilepidotus spinosus</i>	124.22	POUND	0.22	
Brown rockfish - Pacific Coast	<i>Sebastes auriculatus</i>	4,385.64	POUND	0.17	
Brown smoothhound shark	<i>Mustelus henlei</i>	147.58	POUND	0.24	
Buffalo sculpin	<i>Enophrys bison</i>	1,874.30	POUND	0.17	
Bull sculpin	<i>Enophrys taurina</i>	28.43	POUND	0.09	
Butter sole	<i>Isopsetta isolepis</i>	1.90	POUND	0.06	
Cabezon	<i>Scorpaenichthys marmoratus</i>	17,716.79	POUND	0.19	
Calico rockfish	<i>Sebastes dallii</i>	167.65	POUND	0.19	
California scorpionfish	<i>Scorpaena guttata</i>	69.58	POUND	0.35	
California sheephead	<i>Semicossyphus pulcher</i>	87,031.08	POUND	0.23	
California skate	<i>Raja inornata</i>	640.86	POUND	0.15	
Canary rockfish	<i>Sebastes pinniger</i>	31,319.49	POUND	0.12	
China rockfish	<i>Sebastes nebulosus</i>	2,948.51	POUND	0.13	
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	351.19	POUND		
Chiton (unidentified)	<i>Polyplacophora</i>	68.58	POUND	0.22	
Coho salmon	<i>Oncorhynchus kisutch</i>	101.95	POUND		
Copper rockfish	<i>Sebastes caurinus</i>	1,483.29	POUND	0.22	
Corals (unidentified)	<i>Anthozoa</i>	6.93	POUND	0.33	
Decorator/spider crab (unidentified)	<i>Majoidea</i>	1,090.83	POUND	0.27	
Dungeness crab	<i>Cancer magister</i>	519.22	POUND	0.17	
Eelpouts	<i>Zoarcidae</i>	184.48	POUND	0.13	
Garibaldi	<i>Hypsypops rubicundus</i>	3,858.59	POUND	0.40	
Gopher rockfish	<i>Sebastes carnatus</i>	8,824.89	POUND	0.15	
Grass rockfish	<i>Sebastes rastrelliger</i>	260.12	POUND	0.40	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Halfbanded rockfish	<i>Sebastes semicinctus</i>	5.37	POUND	0.21	
Halfmoon	<i>Medialuna californiensis</i>	88.83	POUND	0.16	
Heart crab	<i>Phyllolithodes papillosus</i>	2.22	POUND	0.08	
Invertebrates (unidentified)		29.65	POUND	0.08	
Jack mackerel - Pacific Coast	<i>Trachurus symmetricus</i>	163.42	POUND	0.10	
Jack smelt	<i>Atherinopsis californiensis</i>	8.72	POUND	0.10	
Kelp bass	<i>Paralabrax clathratus</i>	57,777.32	POUND	0.17	
Kelp greenling	<i>Hexagrammos decagrammus</i>	4,368.29	POUND	0.12	
Kelp rockfish	<i>Sebastes atrovirens</i>	432.69	POUND	0.37	
Kelpfish (unidentified)	Clinidae	37.22	POUND	0.13	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	151,301.62	POUND	0.10	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	277.69	POUND	0.06	
Mackerel (unidentified)	Scombridae	9.48	POUND	0.06	
Mollusk (unidentified)	Mollusca	71.66	POUND	0.56	
Non-eulachon smelt (unidentified)	Osmeriformes	1.11	POUND	0.08	
Nudibranch (unidentified)	Nudibranchia	11.24	POUND	0.23	
Ocean whitefish	<i>Caulolatilus princeps</i>	193.22	POUND	0.58	
Octopus (unidentified)	Octopoda	115.83	POUND	0.42	
Olive rockfish	<i>Sebastes serranoides</i>	1,235.00	POUND	0.21	
Opaleye	<i>Girella nigricans</i>	178.98	POUND	0.40	
Other identified fish		56.64	POUND	0.73	
Pacific chub mackerel	<i>Scomber japonicus</i>	33.68	POUND	0.41	
Pacific halibut	<i>Hippoglossus stenolepis</i>	3,263.84	POUND	0.48	
Pacific rock crab	<i>Cancer antennarius</i>	322.40	POUND	0.14	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	23.77	POUND	0.16	
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	34.67	POUND	0.34	
Pile surfperch	<i>Rhacochilus vacca</i>	40.46	POUND	0.13	
Quillback rockfish	<i>Sebastes maliger</i>	365.52	POUND	0.26	
Rainbow surfperch	<i>Hypsurus caryi</i>	30.58	POUND	0.13	
Red irish lord sculpin	<i>Hemilepidotus hemilepidotus</i>	666.27	POUND	0.17	
Red rock crab	<i>Cancer productus</i>	3,287.15	POUND	0.26	
Rock greenling	<i>Hexagrammos lagocephalus</i>	31.69	POUND	0.72	
Rock sole	<i>Paraplagusia bilineata</i>	114.65	POUND	0.28	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Rock wrasse	Halichoeres semicinctus	32.36	POUND	0.13	
Rosethorn rockfish	Sebastes helvomaculatus	21.56	POUND	0.09	
Rosy rockfish	Sebastes rosaceus	168.79	POUND	0.22	
Rubberlip surfperch	Rhacochilus toxotes	106.40	POUND	0.16	
Salmon (unidentified)	Oncorhynchus	205.33	POUND		
Sand sole - Pacific Coast	Psettichthys melanostictus	11.24	POUND	0.06	
Sargo	Anisotremus davidsonii	355.50	POUND	0.12	
Sculpins (unidentified)	Cottidae	767.74	POUND	0.32	
Sea anemones (unidentified)	Actiniaria	53.89	POUND	0.16	
Sea basses (unidentified)	Serranidae	186.09	POUND	0.13	
Sea cucumbers (unidentified)	Holothuroidea	510.35	POUND	0.16	
Sea snail (unidentified)		86.71	POUND	0.36	
Sea stars	Asteroidea	2,059.50	POUND	0.17	
Sea urchins	Echinoidea	24.32	POUND	0.38	
Sharks (unidentified)	Elasmobranchii	809.10	POUND	0.13	
Spiny dogfish - Pacific Coast	Squalus acanthias	1,211.05	POUND	0.18	
Squarespot rockfish	Sebastes hopkinsi	77.81	POUND	0.21	
Starry rockfish	Sebastes constellatus	14.86	POUND	0.88	
Starry skate	Raja stellulata	157.28	POUND	0.38	
Stony coral	Scleractinia	0.47	POUND	0.06	
Striped surfperch	Embiotoca lateralis	100.70	POUND	0.07	
Swell shark	Cephaloscyllium ventriosum	532.44	POUND	0.08	
Tiger rockfish	Sebastes nigrocinctus	142.53	POUND	0.42	
Tope	Galeorhinus galeus	208.25	POUND	0.22	
Treefish	Sebastes serriceps	2,130.89	POUND	0.20	
Triggerfish (unidentified)	Balistidae	90.62	POUND	0.13	
Vermilion rockfish	Sebastes miniatus	840.36	POUND	0.30	
White croaker	Genyonemus lineatus	175.16	POUND	0.47	
Widow rockfish - Pacific Coast	Sebastes entomelas	46.44	POUND	0.70	
Wolf-eel	Anarrhichthys ocellatus	1,940.74	POUND	0.20	
Worm (unidentified)		2.37	POUND	0.06	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	7,056.21	POUND	0.18	
Yellowtail rockfish	Sebastes flavidus	5,262.18	POUND	0.19	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>TOTAL FISHERY BYCATCH</b>		495,550.45	POUND		
<b>TOTAL FISHERY LANDINGS</b>		1,488,734.75	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		1,984,285.20	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.25			
<b>Washington/Oregon/California Pink Shrimp <sup>1,3</sup></b>					
Aleutian skate	Bathyraja aleutica	4.11	POUND	0.52	
American shad	Alosa sapidissima	2,871.10	POUND	0.10	
Anchovy (unidentified)	Engraulidae	20,484.04	POUND	0.37	
Aplacophora (unidentified)	Aplacophora	32.23	POUND	0.30	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	34,906.53	POUND	0.05	
Aurora rockfish	Sebastes aurora	1.59	POUND	0.02	
Barnacles (unidentified)	Cirripedia	4.33	POUND	0.08	
Barracudinas (unidentified)	Paralepididae	1.06	POUND	0.02	
Basket starfish	Gorgonocephalus eucnemis	37.24	POUND	0.23	
Basketweave cusk-eel	Ophidion scrippsae	2.54	POUND	0.02	
Big skate	Raja binoculata	1,717.93	POUND	0.75	
Bigeye starnose poacher	Bathyagonus pentacanthus	68.15	POUND	0.54	
Bigfin eelpout	Lycodes cortezianus	2,364.12	POUND	0.14	
Bivalves (unidentified)	Bivalvia	6.36	POUND	0.22	
Black coral	Antipatharia	1.49	POUND	0.02	
Black rockfish	Sebastes melanops	115.18	POUND	0.02	
Blackedge poacher	Xeneretmus latifrons	43.22	POUND	0.16	
Blackgill rockfish	Sebastes melanostomus	3.94	POUND	0.02	
Bluebarred prickleback	Plectobranthus evides	10.83	POUND	0.23	
Bocaccio	Sebastes paucispinis	18.90	POUND	0.02	
Brittle/basket star (unidentified)	Ophiuroidea	229.15	POUND	0.14	
Brown box crab	Lopholithodes foraminatus	32.80	POUND	0.02	
Butter sole	Isopsetta isolepis	25.58	POUND	0.04	
By-the-wind sailor jellyfish	Velella velella	21.71	POUND	0.33	
Canary rockfish	Sebastes pinniger	2,787.82	POUND	0.21	
Chilipepper	Sebastes goodei	3,350.18	POUND	0.23	
Chum salmon	Oncorhynchus keta	3.59	POUND		
Coho salmon	Oncorhynchus kisutch	4.55	POUND		

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Cowcod	<i>Sebastes levis</i>	2.49	POUND	0.15	
Crab (unidentified)	Brachyura	3.64	POUND	0.04	
Curlfin sole	<i>Pleuronichthys decurrens</i>	47.98	POUND	0.36	
Cusk-eel (unidentified)	Ophidiidae	0.53	POUND	0.02	
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	11,536.07	POUND	0.06	
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	7,923.79	POUND	0.08	
Duckbill eels	Nettastomatidae	1.66	POUND	0.02	
Dungeness crab	<i>Cancer magister</i>	87.47	POUND	0.51	
Dwarf wrymouth	<i>Cryptacanthodes aleutensis</i>	9.85	POUND	0.28	
Eelpouts	Zoarcidae	18,729.94	POUND	0.12	
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2,128.62	POUND	0.15	
Eulachon	<i>Thaleichthys pacificus</i>	1,352,204.73	POUND		
Flag rockfish	<i>Sebastes rubrivinctus</i>	2.02	POUND	0.02	
Flat-legged spider crab	<i>Paralomis verrilli</i>	2.65	POUND	0.02	
Flatfishes (unidentified)	Pleuronectiformes	6,477.73	POUND	0.22	
Flathead sole	<i>Hippoglossoides elassodon</i>	17,931.55	POUND	0.05	
Gorgonian coral (unidentified)	Alcyonacea	8.07	POUND	0.29	
Greenspotted rockfish	<i>Sebastes chlorostictus</i>	3.18	POUND	0.17	
Greenstriped rockfish	<i>Sebastes elongatus</i>	3,795.07	POUND	0.05	
Gunnels	Pholidae	2.02	POUND	0.02	
Hagfish (unidentified)	Myxinidae	12,183.39	POUND	0.09	
Halfbanded rockfish	<i>Sebastes semicinctus</i>	18.74	POUND	0.23	
Hatchetfish (unidentified)	Sternoptychidae	3.09	POUND	0.28	
Herring (unidentified)	Clupea	11,509.66	POUND	0.14	
Invertebrates (unidentified)		1,149.81	POUND	0.21	
Irregular echinoids	Echinoidea	3,179.18	POUND	0.14	
Isopod (unidentified)	Isopoda	203.98	POUND	0.11	
Jack mackerel - Pacific Coast	<i>Trachurus symmetricus</i>	1.06	POUND	0.03	
Jellyfish (unidentified)	Scyphozoa	22,103.63	POUND	0.56	
Jumbo squid	<i>Dosidicus gigas</i>	222.33	POUND	0.33	
Lanternfishes	Myctophidae	103.35	POUND	0.21	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	1,030.97	POUND	0.17	
Long-armed spider crab	<i>Macroregonia macrochira</i>	0.44	POUND	0.02	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Longfin smelt	<i>Spirinchus thaleichthys</i>	1.55	POUND	0.06	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2,457.58	POUND	0.26	
Lyre crab (unidentified)	<i>Hyas</i>	0.44	POUND	0.02	
Manefishes	<i>Caristiidae</i>	9.34	POUND	0.13	
Medusafish	<i>Icichthys lockingtoni</i>	50.80	POUND	0.17	
Midshipman (toadfish) (unidentified)	<i>Porichthys</i>	181.07	POUND	0.47	
Mollusk (unidentified)	<i>Mollusca</i>	28.56	POUND	0.62	
Monkeyface prickleback	<i>Cebidichthys violaceus</i>	4.35	POUND	0.02	
Non-eulachon smelt (unidentified)	<i>Osmeriformes</i>	66,733.73	POUND	0.11	
Non-humboldt squid (unidentified)	<i>Teuthida</i>	95,015.18	POUND	0.08	
Northern anchovy	<i>Engraulis mordax</i>	12,228.26	POUND	0.40	
Nudibranch (unidentified)	<i>Nudibranchia</i>	632.63	POUND	0.09	
Octopus (unidentified)	<i>Octopoda</i>	2,878.60	POUND	0.10	
Other identified fish		3,590.16	POUND	0.60	
Pacific argentine	<i>Argentina sialis</i>	1.05	POUND	0.03	
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	83.27	POUND	0.31	
Pacific electric ray	<i>Torpedo californica</i>	5.84	POUND	0.02	
Pacific hagfish	<i>Eptatretus stoutii</i>	584.47	POUND	0.14	
Pacific hake	<i>Merluccius productus</i>	2,551,043.27	POUND	0.03	
Pacific halibut	<i>Hippoglossus stenolepis</i>	20.64	POUND	0.08	
Pacific herring	<i>Clupea pallasii</i>	70,313.01	POUND	0.09	
Pacific lamprey	<i>Entosphenus tridentatus</i>	52.58	POUND	0.22	
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	635.86	POUND	0.13	
Pacific pomfret	<i>Brama japonica</i>	2.44	POUND	0.02	
Pacific pompano	<i>Peprilus simillimus</i>	1,272.25	POUND	0.12	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	24,233.40	POUND	0.06	
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	815.02	POUND	0.27	
Pacific saury	<i>Cololabis saira</i>	15.83	POUND	0.19	
Pacific scabbardfish	<i>Lepidopus caudatus</i>	0.53	POUND	0.02	
Pacific tom cod	<i>Microgadus proximus</i>	2.76	POUND	0.02	
Peanut worm (unidentified)	<i>Sipuncula</i>	70.98	POUND	0.37	
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	5,100.58	POUND	0.09	
Plainfin midshipman	<i>Porichthys notatus</i>	25.16	POUND	0.02	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Poachers (unidentified)	Agonidae	3,074.71	POUND	0.06	
Prickleback (unidentified)	Stichaeidae	394.56	POUND	0.11	
Prowfish	Zaprora silenus	1.31	POUND	0.02	
Puget Sound rockfish	Sebastes emphaeus	3.08	POUND	0.46	
Pygmy poacher	Odontopyxis trispinosa	8.17	POUND	0.35	
Pygmy rockfish	Sebastes wilsoni	0.53	POUND	0.02	
Ragfish	Icosteus aenigmaticus	5.77	POUND	0.07	
Redbanded rockfish	Sebastes babcocki	117.09	POUND	0.12	
Rex sole - Pacific Coast	Glyptocephalus zachirus	92,894.55	POUND	0.05	
Rosethorn rockfish	Sebastes helvomaculatus	22.22	POUND	0.22	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	65.69	POUND	0.22	
Sablefish - Pacific Coast	Anoplopoma fimbria	174.05	POUND	0.16	
Salp (unidentified)	Salpidae	405.09	POUND	0.10	
Sandpaper skate	Bathyraja interrupta	10.09	POUND	0.12	
Sculpins (unidentified)	Cottidae	294.46	POUND	0.28	
Sea anemones (unidentified)	Actiniaria	3,785.82	POUND	0.12	
Sea cucumbers (unidentified)	Holothuroidea	2,800.46	POUND	0.19	
Sea pens	Pennatulacea	0.79	POUND	0.02	
Sea snail (unidentified)		177.86	POUND	0.22	
Sea squirts (unidentified)	Ascidacea	87.11	POUND	0.18	
Sea stars	Asteroidea	488.23	POUND	0.11	
Sea urchins	Echinoidea	1,010.21	POUND	0.27	
Sea whips	Pennatulacea	264.89	POUND	0.18	
Sharpchin rockfish	Sebastes zacentrus	94.81	POUND	0.15	
Shelf rockfishes (other)	Sebastes	2,801.14	POUND	0.29	
Shiner surfperch	Cymatogaster aggregata	81.76	POUND	0.12	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	2,048.69	POUND	0.11	
Shortraker rockfish	Sebastes borealis	4.46	POUND	0.02	
Shortraker/rougheye rockfish	Sebastes	84.93	POUND	0.02	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	73.46	POUND	0.28	
Shrimp (unidentified)	Decapoda	1,057,749.21	POUND	0.08	
Slender sole	Lyopsetta exilis	265,428.61	POUND	0.04	
Slim sculpin	Radulinus asprellus	2,516.48	POUND	0.93	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Smelt (unidentified)	Osmeriformes	9,196.88	POUND	0.34	
Snailfishes (unidentified)	Liparidae	34.17	POUND	0.20	
Snipe eels (unidentified)	Nemichthyidae	0.53	POUND	0.02	
Soft coral	Alcyonacea	2.65	POUND	0.02	
Specklefin midshipman	Porichthys myriaster	1.17	POUND	0.02	
Spiny dogfish - Pacific Coast	Squalus acanthias	1,993.47	POUND	0.50	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	61.70	POUND	0.20	
Sponge (unidentified)	Porifera	6.71	POUND	0.63	
Spotted cusk-eel	Chilara taylori	31.26	POUND	0.06	
Spotted ratfish	Hydrolagus colliei	729.63	POUND	0.31	
Squarespot rockfish	Sebastes hopkinsi	27.07	POUND	0.68	
Squat lobster (unidentified)	Anomura	8.60	POUND	0.17	
Squids	Teuthida	1,137.57	POUND	0.19	
Stripetail rockfish	Sebastes saxicola	1,883.88	POUND	0.14	
Sturgeon poacher	Podothecus accipenserinus	0.53	POUND	0.02	
Surfperch (unidentified)	Embiotocidae	194.02	POUND	0.21	
Threadfin sculpin	Icelinus filamentosus	0.53	POUND	0.02	
Tiger rockfish	Sebastes nigrocinctus	2.12	POUND	0.03	
Tunicata	Tunicata	93.51	POUND	0.16	
Viperfishes (unidentified)	Chauliodontinae	2.12	POUND	0.02	
Walleye pollock	Gadus chalcogrammus	1,654.69	POUND	0.10	
Whitebait smelt	Allosmerus elongatus	20,551.40	POUND	0.20	
Whitebarred prickleback	Poroclinus rothrocki	36.08	POUND	0.20	
Wolf-eel	Anarrhichthys ocellatus	11.73	POUND	0.52	
Worm (unidentified)		289.98	POUND	0.10	
Wrymouth (unidentified)	Cryptacanthodes	85.44	POUND	0.15	
Yellow rock crab	Cancer anthonyi	37.17	POUND	0.02	
Yellowmouth rockfish	Sebastes reedi	15.39	POUND	0.38	
Yellowtail rockfish	Sebastes flavidus	852.97	POUND	0.74	
<b>TOTAL FISHERY BYCATCH</b>		5,855,763.41	POUND		
<b>TOTAL FISHERY LANDINGS</b>		103,445,744.30	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		109,301,507.71	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.05			

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>West Coast Groundfish Non-Trawl Gear: Limited Entry</b>					
<b>Sablefish-Endorsed Fixed Gear <sup>1,3</sup></b>					
Albacore	Thunnus alalunga	81.50	POUND	0.91	
Aleutian skate	Bathyraja aleutica	45.83	POUND	0.03	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	44,207.18	POUND	0.16	
Aurora rockfish	Sebastes aurora	84.87	POUND	0.30	
Bamboo corals		2.09	POUND	0.03	
Bank rockfish	Sebastes rufus	11.52	POUND	0.87	
Big skate	Raja binoculata	615.14	POUND	0.52	
Bigfin eelpout	Lycodes cortezianus	1.97	POUND	0.03	
Black coral	Antipatharia	2.54	POUND	0.67	
Black skate	Bathyraja trachura	506.54	POUND	0.25	
Blackgill rockfish	Sebastes melanostomus	3,508.94	POUND	0.40	
Blue shark	Prionace glauca	46,325.78	POUND	0.09	
Bluntnose sixgill shark	Hexanchus griseus	19.96	POUND	0.07	
Bocaccio	Sebastes paucispinis	53.60	POUND	0.52	
Brittle/basket star (unidentified)	Ophiuroidea	3.85	POUND	0.19	
Brown box crab	Lopholithodes foraminatus	374.79	POUND	0.30	
Brown cat shark	Apristurus brunneus	572.24	POUND	0.10	
By-the-wind sailor jellyfish	Velella velella	0.49	POUND	0.21	
California slickhead	Alepocephalus tenebrosus	3.26	POUND	0.03	
Canary rockfish	Sebastes pinniger	4,158.53	POUND	0.49	
Catshark (unidentified)	Scyliorhinidae	315.01	POUND	0.13	
Chilipepper	Sebastes goodei	320.10	POUND	0.54	
Coho salmon	Oncorhynchus kisutch	18.85	POUND		
Crinoids (unidentified)	Crinoidea	2.34	POUND	0.23	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	552.00	POUND	0.32	
Decorator/spider crab (unidentified)	Majoidea	7.12	POUND	0.31	
Deepsea sole	Embassichthys bathybius	12.88	POUND	0.46	
Dover sole - Pacific Coast	Microstomus pacificus	3,089.95	POUND	0.13	
Dungeness crab	Cancer magister	2,900.43	POUND	0.16	
Eelpouts	Zoarcidae	4.88	POUND	0.42	
English sole - Pacific Coast	Parophrys vetulus	4.30	POUND	0.03	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Filetail cat shark	<i>Parmaturus xaniurus</i>	94.99	POUND	0.17	
Flathead sole	<i>Hippoglossoides elassodon</i>	4.65	POUND	0.03	
Giant grenadier	<i>Albatrossia pectoralis</i>	3,048.37	POUND	0.56	
Greenblotched rockfish	<i>Sebastes rosenblatti</i>	83.64	POUND	0.39	
Greenstriped rockfish	<i>Sebastes elongatus</i>	485.23	POUND	0.27	
Grenadiers	Macrouridae	2,019.25	POUND	0.30	
Hagfish (unidentified)	Myxinidae	110.93	POUND	0.13	
Hair crab	<i>Paralomis multispina</i>	398.82	POUND	0.60	
Hermit crab (unidentified)	Paguroidea	2.29	POUND	0.32	
Horny gorgonians	Holaxonia	7.78	POUND	0.53	
Hydrocoral	Hydroidolina	0.65	POUND	0.04	
Invertebrates (unidentified)		37.63	POUND	0.28	
Irregular echinoids	Echinoidea	0.41	POUND	0.04	
Jellyfish (unidentified)	Scyphozoa	9.58	POUND	0.04	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	7,859.05	POUND	0.15	
Longnose cat shark	<i>Apristurus kampae</i>	44.73	POUND	0.13	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	70,882.35	POUND	0.09	
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	43.12	POUND	0.35	
Mollusk (unidentified)	Mollusca	997.55	POUND	0.34	
Non-humboldt squid (unidentified)	Teuthida	0.57	POUND	0.04	
Nudibranch (unidentified)	Nudibranchia	4.28	POUND	0.11	
Octopus (unidentified)	Octopoda	103.81	POUND	0.17	
Other identified fish		0.16	POUND	0.04	
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2,958.74	POUND	0.22	
Pacific flatnose	<i>Antimora microlepis</i>	149.27	POUND	0.36	
Pacific grenadier - Pacific Coast	<i>Coryphaenoides acrolepis</i>	2,442.50	POUND	0.19	
Pacific hagfish	<i>Eptatretus stoutii</i>	2.55	POUND	0.12	
Pacific hake	<i>Merluccius productus</i>	91.10	POUND	0.30	
Pacific halibut	<i>Hippoglossus stenolepis</i>	276,427.31	POUND	0.14	
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	266.10	POUND	0.32	
Pacific pomfret	<i>Brama japonica</i>	12.66	POUND	0.03	
Pacific sleeper shark	<i>Somniosus pacificus</i>	21,314.68	POUND	0.19	
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	472.67	POUND	0.32	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Poachers (unidentified)	Agonidae	0.08	POUND	0.04	
Popeye grenadier	Coryphaenoides cinereus	3.37	POUND	0.03	
Redbanded rockfish	Sebastes babcocki	8,954.82	POUND	0.14	
Redstripe rockfish	Sebastes proriger	5.40	POUND	0.87	
Rosethorn rockfish	Sebastes helvomaculatus	658.58	POUND	0.16	
Rosy rockfish	Sebastes rosaceus	1.72	POUND	0.03	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	29,089.38	POUND	0.15	
Sablefish - Pacific Coast	Anoplopoma fimbria	704,730.26	POUND	0.06	
Salp (unidentified)	Salpidae	2.54	POUND	0.35	
Sandpaper skate	Bathyraja interrupta	3,383.82	POUND	0.10	
Scarlet king crab	Lithodes couesi	359.78	POUND	0.44	
Sculpins (unidentified)	Cottidae	3.67	POUND	0.07	
Sea anemones (unidentified)	Actiniaria	71.73	POUND	0.22	
Sea cucumbers (unidentified)	Holothuroidea	32.84	POUND	0.24	
Sea fans		0.25	POUND	0.12	
Sea pens	Pennatulacea	6.88	POUND	0.12	
Sea snail (unidentified)		335.76	POUND	0.21	
Sea stars	Asteroidea	861.23	POUND	0.18	
Sea urchins	Echinoidea	1,963.15	POUND	0.31	
Sea whips	Pennatulacea	3.00	POUND	0.22	
Sharks (unidentified)	Elasmobranchii	2,394.28	POUND	0.30	
Sharpchin rockfish	Sebastes zacentrus	33.49	POUND	0.33	
Shortraker rockfish	Sebastes borealis	2,420.07	POUND	0.24	
Shortraker/rougheye rockfish	Sebastes	6,579.84	POUND	0.24	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	5,950.48	POUND	0.22	
Silvergray rockfish	Sebastes brevispinis	59.16	POUND	0.42	
Skates (unidentified)	Rajidae	677.07	POUND	0.73	
Slender sole	Lyopsetta exilis	0.33	POUND	0.04	
Slope rockfishes (other)	Sebastes	10.47	POUND	0.47	
Snailfishes (unidentified)	Liparidae	3.67	POUND	0.09	
Soft coral	Alcyonacea	0.23	POUND	0.08	
Southern Tanner crab	Chionoecetes bairdi	1.88	POUND	0.15	
Spiny dogfish - Pacific Coast	Squalus acanthias	279,979.16	POUND	0.15	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Spiny lithode crab	Acantholithodes hispidus	6.14	POUND	0.04	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	51.65	POUND	0.62	
Sponge (unidentified)	Porifera	24.28	POUND	0.39	
Spongy gorgonians	Scleraxonia	2.44	POUND	0.03	
Spotted ratfish	Hydrolagus colliei	3,075.44	POUND	0.12	
Stony coral	Scleractinia	1.63	POUND	0.43	
Tanner crabs	Chionoecetes	8,426.20	POUND	0.24	
Tanneri tanner crab	Chionoecetes tanneri	12,706.69	POUND	0.14	
Threadfin sculpin	Icelinus filamentosus	6.28	POUND	0.33	
Tunicata	Tunicata	0.33	POUND	0.04	
Viperfishes (unidentified)	Chauliodontinae	0.16	POUND	0.04	
Widow rockfish - Pacific Coast	Sebastes entomelas	281.18	POUND	0.47	
Worm (unidentified)		0.03	POUND	0.04	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	1,267.81	POUND	0.40	
Yellowmouth rockfish	Sebastes reedi	169.07	POUND	0.48	
Yellowtail rockfish	Sebastes flavidus	1,657.06	POUND	0.28	
<b>TOTAL FISHERY BYCATCH</b>		1,574,440.68	POUND		
<b>TOTAL FISHERY LANDINGS</b>		3,050,287.25	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		4,624,727.93	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.34			
<b>West Coast Groundfish Non-Trawl Gear: Non-Endorsed Fixed Gear <sup>1,3</sup></b>					
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	2,680.06	POUND	0.19	
Aurora rockfish	Sebastes aurora	24.89	POUND	0.97	
Bamboo corals		30.50	POUND	0.10	
Barred sand bass	Paralabrax nebulifer	124.47	POUND	0.13	
Bat ray	Myliobatis californica	190.86	POUND	0.13	
Big skate	Raja binoculata	1,415.92	POUND	0.10	
Bigfin eelpout	Lycodes cortezianus	24.89	POUND	0.27	
Black hagfish	Eptatretus deani	335.11	POUND	0.27	
Black skate	Bathyraja trachura	22,341.97	POUND	0.14	
Blackgill rockfish	Sebastes melanostomus	1,425.74	POUND	0.47	
Blue shark	Prionace glauca	20,857.92	POUND	0.21	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Brown cat shark	<i>Apristurus brunneus</i>	10,228.45	POUND	0.20	
California grenadier	<i>Nezumia stelgidolepis</i>	262.72	POUND	0.26	
California king crab	<i>Paralithodes californiensis</i>	733.47	POUND	0.43	
California scorpionfish	<i>Scorpaena guttata</i>	99.58	POUND	0.72	
California skate	<i>Raja inornata</i>	49.01	POUND	0.10	
California slickhead	<i>Alepocephalus tenebrosus</i>	902.01	POUND	0.31	
Canary rockfish	<i>Sebastes pinniger</i>	2,458.79	POUND	0.40	
Copper rockfish	<i>Sebastes caurinus</i>	58.09	POUND	0.13	
Crab (unidentified)	<i>Brachyura</i>	1.66	POUND	0.13	
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	569.82	POUND	0.60	
Decorator/spider crab (unidentified)	<i>Majoidea</i>	4.15	POUND	0.13	
Deep-sea rock crab	<i>Glyptolithodes cristatipes</i>	5,305.94	POUND	0.20	
Deep-sea spider crab	<i>Paralomis manningi</i>	61.91	POUND	0.09	
Deepsea skate	<i>Bathyraja abyssicola</i>	423.21	POUND	0.40	
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	3,220.41	POUND	0.16	
Eelpouts	<i>Zoarcidae</i>	20.69	POUND	0.27	
Filetail cat shark	<i>Parmaturus xaniurus</i>	46,078.73	POUND	0.24	
Flag rockfish	<i>Sebastes rubrivinctus</i>	53.94	POUND	0.21	
Ghostshark	<i>Hydrolagus</i>	255.96	POUND	0.10	
Giant grenadier	<i>Albatrossia pectoralis</i>	11,640.65	POUND	0.14	
Greenspotted rockfish	<i>Sebastes chlorostictus</i>	8.30	POUND	0.13	
Greenstriped rockfish	<i>Sebastes elongatus</i>	34.71	POUND	0.60	
Grenadiers	<i>Macrouridae</i>	1,016.54	POUND	0.47	
Hagfish (unidentified)	<i>Myxinidae</i>	532.16	POUND	0.17	
Hair crab	<i>Paralomis multispina</i>	127.69	POUND	0.13	
Halfbanded rockfish	<i>Sebastes semicinctus</i>	53.94	POUND	0.13	
Hatchetfish (unidentified)	<i>Sternoptychidae</i>	0.85	POUND	0.11	
Honeycomb rockfish	<i>Sebastes umbrosus</i>	78.00	POUND	0.66	
Horny gorgonians	<i>Holaxonia</i>	11.62	POUND	0.13	
Invertebrates (unidentified)		472.30	POUND	0.26	
Jumbo squid	<i>Dosidicus gigas</i>	1,089.17	POUND	0.10	
Kelp bass	<i>Paralabrax clathratus</i>	98.03	POUND	0.10	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	1,743.32	POUND	0.28	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Longnose cat shark	<i>Apristurus kampae</i>	1,821.23	POUND	0.17	
Longnose lancetfish	<i>Alepisaurus ferox</i>	69.70	POUND	0.13	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	60,631.04	POUND	0.34	
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	11,269.45	POUND	0.17	
Mackerel (unidentified)	<i>Scombridae</i>	33.19	POUND	0.13	
Mollusk (unidentified)	<i>Mollusca</i>	4.15	POUND	0.13	
Non-humboldt squid (unidentified)	<i>Teuthida</i>	32.68	POUND	0.10	
Ocean whitefish	<i>Caulolatilus princeps</i>	8.30	POUND	0.13	
Octopus (unidentified)	<i>Octopoda</i>	141.07	POUND	0.20	
Olive rockfish	<i>Sebastes serranoides</i>	49.01	POUND	0.10	
Other identified fish		248.94	POUND	0.65	
Pacific black dogfish	<i>Centroscyllium nigrum</i>	873.02	POUND	0.23	
Pacific dogfish shark	<i>Squalus suckleyi</i>	78.83	POUND	0.29	
Pacific flatnose	<i>Antimora microlepis</i>	15,203.31	POUND	0.32	
Pacific grenadier - Pacific Coast	<i>Coryphaenoides acrolepis</i>	335,856.27	POUND	0.31	
Pacific hagfish	<i>Eptatretus stoutii</i>	48.37	POUND	0.24	
Pacific hake	<i>Merluccius productus</i>	401.16	POUND	0.30	
Pacific halibut	<i>Hippoglossus stenolepis</i>	24,341.42	POUND	0.25	
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	28.32	POUND	0.10	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	33.19	POUND	0.13	
Pacific sleeper shark	<i>Somniosus pacificus</i>	56,518.71	POUND	0.25	
Pelagic thresher	<i>Alopias pelagicus</i>	653.50	POUND	0.10	
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	604.27	POUND	0.20	
Redbanded rockfish	<i>Sebastes babcocki</i>	686.06	POUND	0.31	
Rosethorn rockfish	<i>Sebastes helvomaculatus</i>	68.83	POUND	0.52	
Rosy rockfish	<i>Sebastes rosaceus</i>	8.30	POUND	0.13	
Rougheye rockfish - Pacific Coast	<i>Sebastes aleutianus</i>	530.72	POUND	0.93	
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	410,273.98	POUND	0.14	
Sandpaper skate	<i>Bathyraja interrupta</i>	430.27	POUND	0.21	
Scarlet king crab	<i>Lithodes couesi</i>	89.69	POUND	0.39	
Sculpins (unidentified)	<i>Cottidae</i>	10.89	POUND	0.10	
Sea anemones (unidentified)	<i>Actiniaria</i>	290.59	POUND	0.29	
Sea cucumbers (unidentified)	<i>Holothuroidea</i>	121.65	POUND	0.40	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sea fans		20.75	POUND	0.13	
Sea snail (unidentified)		12.62	POUND	0.08	
Sea stars	Asteroidea	459.23	POUND	0.19	
Sea urchins	Echinoidea	399.36	POUND	0.44	
Sea whips	Pennatulacea	1.66	POUND	0.13	
Sharks (unidentified)	Elasmobranchii	2,555.83	POUND	0.68	
Sheep crab	Loxorhynchus grandis	161.81	POUND	0.13	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	16,169.55	POUND	0.16	
Skates (unidentified)	Rajidae	1,185.10	POUND	0.27	
Slope rockfishes (other)	Sebastes	90.16	POUND	0.10	
Smooth grenadier	Nezumia liolepis	23.23	POUND	0.13	
Snailfishes (unidentified)	Liparidae	40.35	POUND	0.13	
Spiky king crab	Neolithodes diomedea	8.54	POUND	0.11	
Spiny dogfish - Pacific Coast	Squalus acanthias	47,389.42	POUND	0.34	
Spiny king crab	Paralithodes rathbuni	209.27	POUND	0.39	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	21.92	POUND	0.74	
Sponge (unidentified)	Porifera	1,175.50	POUND	0.21	
Spongy gorgonians	Scleraxonia	19.35	POUND	0.10	
Spotted ratfish	Hydrolagus colliei	6,576.93	POUND	0.19	
Starry rockfish	Sebastes constellatus	12.45	POUND	0.13	
Tanneri tanner crab	Chionoecetes tanneri	1,335.01	POUND	0.38	
Tope	Galeorhinus galeus	25,724.27	POUND	0.13	
Treefish	Sebastes serriceps	16.60	POUND	0.13	
Vermilion rockfish	Sebastes miniatus	8.30	POUND	0.13	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	401.90	POUND	0.26	
<b>TOTAL FISHERY BYCATCH</b>		1,162,627.37	POUND		
<b>TOTAL FISHERY LANDINGS</b>		3,024,339.83	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		4,186,967.20	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.28			
<b>West Coast Limited Entry Bottom Trawl; Fixed Gear <sup>1, 2</sup></b>					
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	3,491.99	POUND	0	
Aurora rockfish	Sebastes aurora	22.95	POUND	0	
Big skate	Raja binoculata	67.40	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Black skate	Bathyraja trachura	495.46	POUND	0	
Blackdragon (unidentified)	Stomiidae	0.25	POUND	0	
Blackgill rockfish	Sebastes melanostomus	156.15	POUND	0	
Blob sculpin	Psychrolutes phrictus	9.90	POUND	0	
Blue shark	Prionace glauca	4,008.77	POUND	0	
Brown box crab	Lopholithodes foraminatus	26.90	POUND	0	
Brown cat shark	Apristurus brunneus	32.75	POUND	0	
California slickhead	Alepocephalus tenebrosus	2.25	POUND	0	
Canary rockfish	Sebastes pinniger	10.80	POUND	0	
Crab (unidentified)	Brachyura	2,730.14	POUND	0	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	3.30	POUND	0	
Decorator/spider crab (unidentified)	Majoidea	7.41	POUND	0	
Deep-sea rock crab	Glyptolithodes cristatipes	1.35	POUND	0	
Deepsea sole	Embassichthys bathybius	8.48	POUND	0	
Dover sole - Pacific Coast	Microstomus pacificus	538.97	POUND	0	
Dungeness crab	Cancer magister	1,764.94	POUND	0	
Eelpouts	Zoarcidae	7.85	POUND	0	
Fangtooth	Anoplogaster cornuta	0.50	POUND	0	
Filetail cat shark	Parmaturus xaniurus	13.10	POUND	0	
Flat-legged spider crab	Paralomis verrilli	107.12	POUND	0	
Flatfishes (unidentified)	Pleuronectiformes	4.00	POUND	0	
Giant grenadier	Albatrossia pectoralis	2,425.00	POUND	0	
Graceful crab	Cancer gracilis	1.05	POUND	0	
Greenstriped rockfish	Sebastes elongatus	4.30	POUND	0	
Grenadiers	Macrouridae	2,035.65	POUND	0	
Hagfish (unidentified)	Myxinidae	33.90	POUND	0	
Hair crab	Paralomis multispina	3,622.67	POUND	0	
Jellyfish (unidentified)	Scyphozoa	4.21	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	650.87	POUND	0	
Long-armed spider crab	Macroregonia macrochira	0.55	POUND	0	
Longnose cat shark	Apristurus kampae	142.55	POUND	0	
Longnose skate - Pacific Coast	Raja rhina	1,549.30	POUND	0	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	32.25	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Non-humboldt squid (unidentified)	Teuthida	0.65	POUND	0	
Ocean sunfish	Mola mola	4.25	POUND	0	
Octopus (unidentified)	Octopoda	66.01	POUND	0	
Pacific cod - Pacific Coast	Gadus macrocephalus	196.19	POUND	0	
Pacific flatnose	Antimora microlepis	950.93	POUND	0	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	27,674.10	POUND	0	
Pacific hagfish	Eptatretus stoutii	0.30	POUND	0	
Pacific hake	Merluccius productus	12.30	POUND	0	
Pacific halibut	Hippoglossus stenolepis	25,782.03	POUND	0	
Pacific ocean perch - Pacific Coast	Sebastes alutus	3.13	POUND	0	
Pacific sleeper shark	Somniosus pacificus	11,421.83	POUND	0	
Petrable sole - Pacific Coast	Eopsetta jordani	28.25	POUND	0	
Redbanded rockfish	Sebastes babcocki	71.29	POUND	0	
Rockfishes (unidentified)	Sebastes	3.00	POUND	0	
Rosethorn rockfish	Sebastes helvomaculatus	10.51	POUND	0	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	12.25	POUND	0	
Sablefish - Pacific Coast	Anoplopoma fimbria	46,588.56	POUND	0	
Sandpaper skate	Bathyraja interrupta	73.36	POUND	0	
Scarlet king crab	Lithodes couesi	409.65	POUND	0	
Sea cucumbers (unidentified)	Holothuroidea	18.54	POUND	0	
Sea urchins	Echinoidea	155.56	POUND	0	
Sharpchin rockfish	Sebastes zacentrus	0.25	POUND	0	
Shortraker rockfish	Sebastes borealis	5.00	POUND	0	
Shortraker/rougheye rockfish	Sebastes	561.95	POUND	0	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	957.97	POUND	0	
Shrimp (unidentified)	Decapoda	0.10	POUND	0	
Snailfishes (unidentified)	Liparidae	262.85	POUND	0	
Southern Tanner crab	Chionoecetes bairdi	0.60	POUND	0	
Spiky king crab	Neolithodes diomedea	773.45	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	59,358.91	POUND	0	
Spiny lithode crab	Acantholithodes hispidus	0.70	POUND	0	
Spotted ratfish	Hydrolagus colliciei	62.12	POUND	0	
Tanner crabs	Chionoecetes	16,093.95	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Tanneri tanner crab	Chionoecetes tanneri	10,594.51	POUND	0	
Thornyheads	Sebastolobus	4.00	POUND	0	
Tope	Galeorhinus galeus	120.00	POUND	0	
Tubeshoulders (unidentified)	Platytroctidae	1.60	POUND	0	
Twoline eelpout	Bothrocara brunneum	2.59	POUND	0	
Viperfishes (unidentified)	Chauliodontinae	0.10	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	1.50	POUND	0	
Yellowmouth rockfish	Sebastes reedi	8.80	POUND	0	
Yellowtail rockfish	Sebastes flavidus	7.52	POUND	0	
<b>TOTAL FISHERY BYCATCH</b>		226,316.19	POUND		
<b>TOTAL FISHERY LANDINGS</b>		1,945,714.20	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		2,172,030.39	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.10			
<b>West Coast Limited Entry Bottom Trawl; Groundfish Bottom</b>					
Alaska skate	Bathyraja parmifera	41.70	POUND	0	
Aleutian skate	Bathyraja aleutica	2,463.67	POUND	0	
American shad	Alosa sapidissima	8,128.81	POUND	0	
Anchovy (unidentified)	Engraulidae	3.62	POUND	0	
Anglerfish (unidentified)	Lophiiformes	1.41	POUND	0	
Angulatus tanner crab	Chionoecetes angulatus	30.36	POUND	0	
Armed box crab	Platymera gaudichaudii	95.25	POUND	0	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	758,738.46	POUND	0	
Aurora rockfish	Sebastes aurora	9,479.67	POUND	0	
Bank rockfish	Sebastes rufus	206.24	POUND	0	
Barracudinas (unidentified)	Paralepididae	11.06	POUND	0	
Basketweave cusk-eel	Ophidion scrippsae	1.32	POUND	0	
Bay pipefish	Syngnathus leptorhynchus	13.93	POUND	0	
Big skate	Raja binoculata	80,314.95	POUND	0	
Bigfin eelpout	Lycodes cortezianus	3,709.03	POUND	0	
Bigscale (unidentified)	Melamphaidae	0.10	POUND	0	
Bivalves (unidentified)	Bivalvia	1,234.13	POUND	0	
Black eelpout	Lycodes diapterus	51.45	POUND	0	
Black rockfish	Sebastes melanops	1,043.70	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Black skate	Bathyraja trachura	31,655.08	POUND	0	
Blackbelly eelpout	Lycodes pacificus	0.60	POUND	0	
Blackedge poacher	Xeneretmus latifrons	0.05	POUND	0	
Blackfin starnose poacher	Bathyagonus nigripinnis	0.05	POUND	0	
Blackgill rockfish	Sebastes melanostomus	2,455.30	POUND	0	
Blob sculpin	Psychrolutes phrictus	154.36	POUND	0	
Blue rockfish	Sebastes mystinus	0.00	POUND	0	
Blue shark	Prionace glauca	0.70	POUND	0	
Bluntnose sixgill shark	Hexanchus griseus	124.02	POUND	0	
Bocaccio	Sebastes paucispinis	1,757.53	POUND	0	
Bristlemouth (unidentified)	Gonostomatidae	0.50	POUND	0	
Bronzespotted rockfish	Sebastes gilli	0.02	POUND	0	
Brown box crab	Lopholithodes foraminatus	1,999.38	POUND	0	
Brown cat shark	Apristurus brunneus	74,267.89	POUND	0	
Brown rockfish - Pacific Coast	Sebastes auriculatus	1.28	POUND	0	
Brown smoothhound shark	Mustelus henlei	6.65	POUND	0	
Bull sculpin	Enophrys taurina	9.33	POUND	0	
Butter sole	Isopsetta isolepis	294.30	POUND	0	
Cabazon	Scorpaenichthys marmoratus	3.12	POUND	0	
California grenadier	Nezumia stelgidolepis	431.01	POUND	0	
California halibut	Paralichthys californicus	75.50	POUND	0	
California king crab	Paralithodes californiensis	12.92	POUND	0	
California lizardfish	Synodus lucioceps	2.93	POUND	0	
California skate	Raja inornata	2,616.75	POUND	0	
California slickhead	Alepocephalus tenebrosus	23,485.92	POUND	0	
Canary rockfish	Sebastes pinniger	165.65	POUND	0	
Catshark (unidentified)	Scyliorhinidae	398.37	POUND	0	
Chilipepper	Sebastes goodei	41,638.30	POUND	0	
Chinook salmon	Oncorhynchus tshawytscha	141,775.74	POUND		
Coho salmon	Oncorhynchus kisutch	8.44	POUND		
Cowcod	Sebastes levis	5.18	POUND	0	
Crab (unidentified)	Brachyura	166.39	POUND	0	
Croaker (unidentified)	Sciaenidae	4.65	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Curlfin sole	Pleuronichthys decurrens	1,271.17	POUND	0	
Cusk-eel (unidentified)	Ophidiidae	1.51	POUND	0	
Daggertooth	Anotopterus pharao	30.43	POUND	0	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	9,021.23	POUND	0	
Decorator/spider crab (unidentified)	Majoidea	9.47	POUND	0	
Deepsea skate	Bathyraja abyssicola	1,929.58	POUND	0	
Deepsea sole	Embassichthys bathybius	21,793.32	POUND	0	
Diamond turbot	Hypsopsetta guttulata	12.22	POUND	0	
Dover sole - Pacific Coast	Microstomus pacificus	87,661.11	POUND	0	
Dragonfishes (unidentified)	Melanostomiinae	7.87	POUND	0	
Dungeness crab	Cancer magister	210,648.44	POUND	0	
Eelpouts	Zoarcidae	33,336.63	POUND	0	
English sole - Pacific Coast	Parophrys vetulus	189,124.51	POUND	0	
Eulachon	Thaleichthys pacificus	53.70	POUND		
Fangtooth	Anoplogaster cornuta	0.15	POUND	0	
Filamented grenadier	Coryphaenoides filifer	4.34	POUND	0	
Filetail cat shark	Parmaturus xaniurus	9,215.77	POUND	0	
Flag rockfish	Sebastes rubrivinctus	1.31	POUND	0	
Flatfishes (unidentified)	Pleuronectiformes	66.00	POUND	0	
Flathead sole	Hippoglossoides elassodon	50,668.97	POUND	0	
Giant grenadier	Albatrossia pectoralis	79,948.58	POUND	0	
Green sturgeon	Acipenser medirostris	255.67	POUND		
Greenblotched rockfish	Sebastes rosenblatti	25.31	POUND	0	
Greenland halibut	Reinhardtius hippoglossoides	8.81	POUND	0	
Greenspotted rockfish	Sebastes chlorostictus	137.51	POUND	0	
Greenstriped rockfish	Sebastes elongatus	6,689.84	POUND	0	
Grenadiers	Macrouridae	1,614.44	POUND	0	
Groundfishes (unidentified)		235.71	POUND	0	
Gunnels	Pholidae	0.41	POUND	0	
Hagfish (unidentified)	Myxinidae	1.21	POUND	0	
Hair crab	Paralomis multispina	17.16	POUND	0	
Halfbanded rockfish	Sebastes semicinctus	41.86	POUND	0	
Hermit crab (unidentified)	Paguroidea	11.03	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Herring (unidentified)	Clupea	10.79	POUND	0	
Hornyhead turbot	Pleuronichthys verticalis	2.54	POUND	0	
Jack mackerel - Pacific Coast	Trachurus symmetricus	74.92	POUND	0	
Jellyfish (unidentified)	Scyphozoa	2,000.34	POUND	0	
Jumbo squid	Dosidicus gigas	825.22	POUND	0	
Kelp greenling	Hexagrammos decagrammus	168.44	POUND	0	
King crab (unidentified)	Lithodidae	5.23	POUND	0	
King-of-salmon	Trachipterus altivelis	65.86	POUND	0	
Lancetfish (unidentified)	Alepisaurus	16.03	POUND	0	
Lanternfishes	Myctophidae	3.34	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	55,475.85	POUND	0	
Longnose cat shark	Apristurus kampae	81.27	POUND	0	
Longnose lancetfish	Alepisaurus ferox	7.65	POUND	0	
Longnose skate - Pacific Coast	Raja rhina	225,008.72	POUND	0	
Longspine combfish	Zaniolepis latipinnis	130.10	POUND	0	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	49,464.86	POUND	0	
Mackerel (unidentified)	Scombridae	10.96	POUND	0	
Masking crab	Loxorhynchus crispatus	0.25	POUND	0	
Mexican rockfish	Sebastes macdonaldi	0.02	POUND	0	
Midshipman (toadfish) (unidentified)	Porichthys	1,204.72	POUND	0	
Monkeyface prickleback	Cebidichthys violaceus	33.24	POUND	0	
Moridae (unidentified)	Moridae	1.11	POUND	0	
Non-eulachon smelt (unidentified)	Osmeriformes	29.87	POUND	0	
Non-humboldt squid (unidentified)	Teuthida	16,915.53	POUND	0	
Ocean sunfish	Mola mola	271.60	POUND	0	
Octopus (unidentified)	Octopoda	6,955.42	POUND	0	
Other nongroundfish		3.68	POUND	0	
Oxeye oreo	Allocyttus folletti	54.75	POUND	0	
Pacific chub mackerel	Scomber japonicus	58.37	POUND	0	
Pacific cod - Pacific Coast	Gadus macrocephalus	1,066.63	POUND	0	
Pacific electric ray	Torpedo californica	5,347.73	POUND	0	
Pacific flatnose	Antimora microlepis	1,394.36	POUND	0	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	42,775.43	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific hake	<i>Merluccius productus</i>	490,114.83	POUND	0	
Pacific halibut	<i>Hippoglossus stenolepis</i>	152,721.06	POUND	0	
Pacific herring	<i>Clupea pallasii</i>	297.29	POUND	0	
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	259.33	POUND	0	
Pacific pomfret	<i>Brama japonica</i>	4.01	POUND	0	
Pacific pompano	<i>Peprilus simillimus</i>	863.99	POUND	0	
Pacific rock crab	<i>Cancer antennarius</i>	2.05	POUND	0	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	266,235.04	POUND	0	
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	120.43	POUND	0	
Pacific saury	<i>Cololabis saira</i>	1.07	POUND	0	
Pacific scabbardfish	<i>Lepidopus caudatus</i>	545.51	POUND	0	
Pacific sleeper shark	<i>Somniosus pacificus</i>	47,253.58	POUND	0	
Pacific staghorn sculpin	<i>Leptocottus armatus</i>	5.25	POUND	0	
Pacific tom cod	<i>Microgadus proximus</i>	18.96	POUND	0	
Paperbone (unidentified)	<i>Scopelosaurus</i>	0.55	POUND	0	
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	31,629.85	POUND	0	
Pink rockfish	<i>Sebastes eos</i>	0.03	POUND	0	
Pink seaperch	<i>Zalemnius rosaceus</i>	30.60	POUND	0	
Plainfin midshipman	<i>Porichthys notatus</i>	1,020.84	POUND	0	
Poachers (unidentified)	<i>Agonidae</i>	70.26	POUND	0	
Popeye grenadier	<i>Coryphaenoides cinereus</i>	19.01	POUND	0	
Prickleback (unidentified)	<i>Stichaeidae</i>	0.61	POUND	0	
Prickly shark	<i>Echinorhinus cookei</i>	15.25	POUND	0	
Prowfish	<i>Zaprora silenus</i>	0.10	POUND	0	
Pygmy poacher	<i>Odontopyxis trispinosa</i>	0.71	POUND	0	
Pygmy rockfish	<i>Sebastes wilsoni</i>	10.83	POUND	0	
Ragfish	<i>Icosteus aenigmaticus</i>	871.19	POUND	0	
Red rock crab	<i>Cancer productus</i>	3.97	POUND	0	
Redbanded rockfish	<i>Sebastes babcocki</i>	412.63	POUND	0	
Redstripe rockfish	<i>Sebastes proriger</i>	107.50	POUND	0	
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	84,594.40	POUND	0	
Ribbonfishes (unidentified)	<i>Trachipteridae</i>	1.81	POUND	0	
Rock greenling	<i>Hexagrammos lagocephalus</i>	0.98	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Rock sole	Paraplagusia bilineata	95.10	POUND	0	
Rockfishes (unidentified)	Sebastes	42.00	POUND	0	
Rosethorn rockfish	Sebastes helvomaculatus	463.64	POUND	0	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	8.84	POUND	0	
Rougheye/blackspotted rockfish	Sebastes aleutianus	17.47	POUND	0	
Roundfishes (unidentified)		1.19	POUND	0	
Sablefish - Pacific Coast	Anoplopoma fimbria	24,833.96	POUND	0	
Salmon (unidentified)	Oncorhynchus	5,300.53	POUND		
Sand sole - Pacific Coast	Psettichthys melanostictus	268.72	POUND	0	
Sanddabs (unidentified)	Citharichthys	91.13	POUND	0	
Sandpaper skate	Bathyraja interrupta	85,728.91	POUND	0	
Scabbardfish cutlassfish (unidentified)	Trichiuridae	344.06	POUND	0	
Scaleless dragonfish (unidentified)	Stomiidae	0.25	POUND	0	
Scarlet king crab	Lithodes couesi	196.60	POUND	0	
Sculpins (unidentified)	Cottidae	1,626.15	POUND	0	
Sea cucumbers (unidentified)	Holothuroidea	2,986.23	POUND	0	
Sea urchins	Echinoidea	3,096.30	POUND	0	
Sharks (unidentified)	Elasmobranchii	468.19	POUND	0	
Sharpchin rockfish	Sebastes zacentrus	109.43	POUND	0	
Shelf rockfishes (other)	Sebastes	683.12	POUND	0	
Shiner surfperch	Cymatogaster aggregata	155.24	POUND	0	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	9,767.14	POUND	0	
Shortraker rockfish	Sebastes borealis	4.99	POUND	0	
Shortspine combfish	Zaniolepis frenata	0.20	POUND	0	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	13,893.46	POUND	0	
Shoulderspot grenadier	Caelorinchus scaphopsis	2.31	POUND	0	
Shrimp (unidentified)	Decapoda	569.25	POUND	0	
Silver surfperch	Hyperprosopon ellipticum	8.31	POUND	0	
Silvergray rockfish	Sebastes brevispinis	0.07	POUND	0	
Skates (unidentified)	Rajidae	1,659.78	POUND	0	
Slender sole	Lyopsetta exilis	65,873.87	POUND	0	
Slickhead (unidentified)	Alepocephalidae	228.72	POUND	0	
Slickheads (unidentified)	Alepocephalidae	60.27	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Slope rockfishes (other)	Sebastes	140.79	POUND	0	
Smooth grenadier	Nezumia liolepis	29.41	POUND	0	
Snailfishes (unidentified)	Liparidae	2,014.92	POUND	0	
Snakehead eelpout	Lycenchelys crotalinus	1.01	POUND	0	
Softhead grenadier	Malacocephalus laevis	0.98	POUND	0	
Southern Tanner crab	Chionoecetes bairdi	27.47	POUND	0	
Spiky king crab	Neolithodes diomedea	9.44	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	413,901.94	POUND	0	
Spiny king crab	Paralithodes rathbuni	24.40	POUND	0	
Spiny lithode crab	Acantholithodes hispidus	0.91	POUND	0	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	69,456.01	POUND	0	
Spotted cusk-eel	Chilara taylori	1.15	POUND	0	
Spotted ratfish	Hydrolagus colliei	185,516.50	POUND	0	
Squids	Teuthida	290.92	POUND	0	
Starry flounder - Pacific Coast	Platichthys stellatus	272.79	POUND	0	
Starry skate	Raja stellulata	52.32	POUND	0	
Stony coral	Scleractinia	57.63	POUND	0	
Stripetail rockfish	Sebastes saxicola	34,014.74	POUND	0	
Sturgeon poacher	Podothecus accipenserinus	1.06	POUND	0	
Surfperch (unidentified)	Embiotocidae	79.55	POUND	0	
Tanner crabs	Chionoecetes	28,642.16	POUND	0	
Tanneri tanner crab	Chionoecetes tanneri	232,099.10	POUND	0	
Thornyheads	Sebastolobus	1,664.85	POUND	0	
Threadfin sculpin	Icelinus filamentosus	378.29	POUND	0	
Threadfin slickhead	Talismania bifurcata	535.33	POUND	0	
Thresher sharks	Alopias	304.18	POUND	0	
Tope	Galeorhinus galeus	3,040.21	POUND	0	
Tubeshoulders (unidentified)	Platytroctidae	1.36	POUND	0	
Twoline eelpout	Bothrocara brunneum	4,905.80	POUND	0	
Vermilion rockfish	Sebastes miniatus	43.15	POUND	0	
Viperfishes (unidentified)	Chauliodontinae	4.49	POUND	0	
Walleye pollock	Gadus chalcogrammus	1,346.20	POUND	0	
White croaker	Genyonemus lineatus	132.36	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
White skate	Bathyraja spinosissima	37.59	POUND	0	
Whitebait smelt	Allosmerus elongatus	0.20	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	147.15	POUND	0	
Wrymouth (unidentified)	Cryptacanthodes	171.10	POUND	0	
Yellow rock crab	Cancer anthonyi	6.92	POUND	0	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	1.06	POUND	0	
Yellowmouth rockfish	Sebastes reedi	0.79	POUND	0	
Yellowtail rockfish	Sebastes flavidus	22.94	POUND	0	
<b>TOTAL FISHERY BYCATCH</b>		4,577,594.99	POUND		
<b>TOTAL FISHERY LANDINGS</b>		35,420,642.47	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		39,998,237.46	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.11			
<b>West Coast Mid-Water Trawl for Hake, At-Sea Processing<sup>1, 2</sup></b>					
Aleutian skate	Bathyraja aleutica	2.34	POUND	0	
American shad	Alosa sapidissima	7,917.40	POUND	0	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	15,430.92	POUND	0	
Aurora rockfish	Sebastes aurora	4.64	POUND	0	
Bank rockfish	Sebastes rufus	70.19	POUND	0	
Barracudinas (unidentified)	Paralepididae	0.13	POUND	0	
Basking shark	Cetorhinus maximus	2,208.61	POUND	0	
Big skate	Raja binoculata	371.31	POUND	0	
Bigscale (unidentified)	Melamphaidae	0.09	POUND	0	
Blue shark	Prionace glauca	1,159.81	POUND	0	
Bluntnose sixgill shark	Hexanchus griseus	2.78	POUND	0	
Bocaccio	Sebastes paucispinis	77.99	POUND	0	
Brown cat shark	Apristurus brunneus	80,099.33	POUND	0	
Canary rockfish	Sebastes pinniger	140.05	POUND	0	
Chinook salmon	Oncorhynchus tshawytscha	11,085.36	POUND		
Chum salmon	Oncorhynchus keta	33.86	POUND		
Coho salmon	Oncorhynchus kisutch	16.90	POUND		
Cusk-eel (unidentified)	Ophidiidae	0.46	POUND	0	
Cutlassfish (unidentified)	Trichiuridae	146.32	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Daggertooth	Anotopterus pharao	0.66	POUND	0	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	3,873.21	POUND	0	
Deepsea smelt (unidentified)	Bathylagidae	489.72	POUND	0	
Dover sole - Pacific Coast	Microstomus pacificus	260.86	POUND	0	
Dragonfishes (unidentified)	Melanostomiinae	135.15	POUND	0	
Duckbill barracudina	Magnisudis atlantica	7,807.65	POUND	0	
Eelpouts	Zoarcidae	8.41	POUND	0	
English sole - Pacific Coast	Parophrys vetulus	3.14	POUND	0	
Eulachon	Thaleichthys pacificus	3.91	POUND		
Fishes (unidentified)		472.40	POUND	0	
Flatfishes (unidentified)	Pleuronectiformes	0.33	POUND	0	
Grenadiers	Macrouridae	62.92	POUND	0	
Hatchetfish (unidentified)	Sternoptychidae	0.04	POUND	0	
Jack mackerel - Pacific Coast	Trachurus symmetricus	132,511.15	POUND	0	
Jellyfish (unidentified)	Scyphozoa	2,271.57	POUND	0	
King-of-salmon	Trachipterus altivelis	87,983.24	POUND	0	
Lampreys (unidentified)	Petromyzontidae	10.58	POUND	0	
Lancetfishes	Alepisaurus	167.43	POUND	0	
Lanternfishes	Myctophidae	515.71	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	244.28	POUND	0	
Longnose skate - Pacific Coast	Raja rhina	742.36	POUND	0	
Loosejaw (unidentified)	Stomiidae	13.96	POUND	0	
Manefishes	Caristiidae	25.84	POUND	0	
Medusafish	Icichthys lockingtoni	15,607.85	POUND	0	
Mixed species		151.79	POUND	0	
Ocean sunfish	Mola mola	37.08	POUND	0	
Octopus (unidentified)	Octopoda	61.71	POUND	0	
Opah - Pacific	Lampris guttatus	50.78	POUND	0	
Pacific chub mackerel	Scomber japonicus	47,903.93	POUND	0	
Pacific hake	Merluccius productus	370,474.93	POUND	0	
Pacific halibut	Hippoglossus stenolepis	266.93	POUND	0	
Pacific herring	Clupea pallasii	81.32	POUND	0	
Pacific lamprey	Entosphenus tridentatus	7.00	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	3,002.78	POUND	0	
Pacific pomfret	<i>Brama japonica</i>	2,389.06	POUND	0	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	3.27	POUND	0	
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	393.04	POUND	0	
Pacific saury	<i>Cololabis saira</i>	1.24	POUND	0	
Pacific sleeper shark	<i>Somniosus pacificus</i>	9,953.97	POUND	0	
Paperbone (unidentified)	<i>Scopelosaurus</i>	4.33	POUND	0	
Pearleyes (unidentified)	Scopelarchidae	25.16	POUND	0	
Pink salmon	<i>Oncorhynchus gorbuscha</i>	45.36	POUND		
Ragfish	<i>Icosteus aenigmaticus</i>	69,826.61	POUND	0	
Redstripe rockfish	<i>Sebastes proriger</i>	652.80	POUND	0	
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	2,043.64	POUND	0	
Ribbonfishes (unidentified)	Trachipteridae	11.97	POUND	0	
Rough pomfret	<i>Taractes asper</i>	279.48	POUND	0	
Rougheye rockfish - Pacific Coast	<i>Sebastes aleutianus</i>	22,086.92	POUND	0	
Roundfishes (unidentified)		54.38	POUND	0	
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	441.24	POUND	0	
Salmon shark	<i>Lamna ditropis</i>	14,350.95	POUND	0	
Sandpaper skate	<i>Bathyraja interrupta</i>	8.50	POUND	0	
Sea devil (unidentified)	Ceratiidae	0.82	POUND	0	
Sharpchin rockfish	<i>Sebastes zacentrus</i>	5.59	POUND	0	
Shortbelly rockfish - Pacific Coast	<i>Sebastes jordani</i>	32.31	POUND	0	
Shortraker rockfish	<i>Sebastes borealis</i>	66.52	POUND	0	
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	4,958.92	POUND	0	
Shrimp (unidentified)	Decapoda	2.16	POUND	0	
Silvergray rockfish	<i>Sebastes brevispinis</i>	61.28	POUND	0	
Slender barracudina	<i>Lestidiops ringens</i>	0.31	POUND	0	
Slender sole	<i>Lyopsetta exilis</i>	0.40	POUND	0	
Snailfishes (unidentified)	Liparidae	19.06	POUND	0	
Snipe eels (unidentified)	Nemichthyidae	0.24	POUND	0	
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	195,838.68	POUND	0	
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	10,187.33	POUND	0	
Spookfish (unidentified)	Opisthoproctidae	1,527.59	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Squids	Teuthida	119,993.71	POUND	0	
Stripetail rockfish	Sebastes saxicola	37.57	POUND	0	
Thresher shark	Alopias vulpinus	2,076.10	POUND	0	
Tope	Galeorhinus galeus	312.85	POUND	0	
Tubeshoulders (unidentified)	Platyroctidae	46.18	POUND	0	
Viperfishes (unidentified)	Chauliodontinae	38.32	POUND	0	
White barracudina	Arctozenus risso	10.69	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	53,104.20	POUND	0	
Yellowmouth rockfish	Sebastes reedi	11.26	POUND	0	
Yellowtail rockfish	Sebastes flavidus	99,705.03	POUND	0	
<b>TOTAL FISHERY BYCATCH</b>		1,404,628.15	POUND		
<b>TOTAL FISHERY LANDINGS</b>		212,568,380.40	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		213,973,008.55	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		<0.01			
<b>West Coast Mid-Water Trawl for Hake, Shoreside Processing <sup>1,</sup></b>					
Blue shark	Prionace glauca	78.84	POUND	0	
Chinook salmon	Oncorhynchus tshawytscha	18,495.99	POUND		
Chum salmon	Oncorhynchus keta	65.06	POUND		
Coho salmon	Oncorhynchus kisutch	44.02	POUND		
Flatfishes (unidentified)	Pleuronectiformes	2.00	POUND	0	
Jack mackerel - Pacific Coast	Trachurus symmetricus	82.20	POUND	0	
Jellyfish (unidentified)	Scyphozoa	480.37	POUND	0	
Mackerel (unidentified)	Scombridae	10.31	POUND	0	
Non-humboldt squid (unidentified)	Teuthida	1.63	POUND	0	
Pacific hake	Merluccius productus	96,459.75	POUND	0	
Pacific halibut	Hippoglossus stenolepis	1,533.10	POUND	0	
Pacific herring	Clupea pallasii	7.61	POUND	0	
Pacific sleeper shark	Somniosus pacificus	607.03	POUND	0	
Pelagic thresher	Alopias pelagicus	801.13	POUND	0	
Ribbonfishes (unidentified)	Trachipteridae	15.61	POUND	0	
Rockfishes (unidentified)	Sebastes	2.00	POUND	0	
Sablefish - Pacific Coast	Anoplopoma fimbria	52.60	POUND	0	
Salmon shark	Lamna ditropis	2,878.55	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sharks (unidentified)	Elasmobranchii	2,252.83	POUND	0	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	9.45	POUND	0	
Shrimp (unidentified)	Decapoda	0.11	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	14.88	POUND	0	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	11.05	POUND	0	
Squids	Teuthida	1,868.12	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	11.00	POUND	0	
Yellowtail rockfish	Sebastes flavidus	15.00	POUND	0	
<b>TOTAL FISHERY BYCATCH</b>		125,800.24	POUND		
<b>TOTAL FISHERY LANDINGS</b>		130,502,894.80	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		130,628,695.04	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		<0.01			
<b>West Coast Mid-Water Trawl for Rockfish, Shoreside</b>					
American shad	Alosa sapidissima	3.26	POUND	0	
Big skate	Raja binoculata	15.04	POUND	0	
Bigeye thresher	Alopias superciliosus	401.13	POUND	0	
Chinook salmon	Oncorhynchus tshawytscha	4,279.34	POUND		
Chum salmon	Oncorhynchus keta	38.00	POUND		
Coho salmon	Oncorhynchus kisutch	50.05	POUND		
Herring (unidentified)	Clupea	8,039.56	POUND	0	
Jack mackerel - Pacific Coast	Trachurus symmetricus	16.60	POUND	0	
Jellyfish (unidentified)	Scyphozoa	200.56	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	24.05	POUND	0	
Ocean sunfish	Mola mola	8.47	POUND	0	
Pacific hake	Merluccius productus	7,053.65	POUND	0	
Pacific herring	Clupea pallasii	26,016.47	POUND	0	
Pelagic thresher	Alopias pelagicus	150.42	POUND	0	
Redstripe rockfish	Sebastes proriger	1,000.00	POUND	0	
Skates (unidentified)	Rajidae	30.08	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	293.22	POUND	0	
Thresher shark	Alopias vulpinus	500.00	POUND	0	
Tope	Galeorhinus galeus	17.85	POUND	0	
Yellowtail rockfish	Sebastes flavidus	268.85	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>TOTAL FISHERY BYCATCH</b>		48,406.60	POUND		
<b>TOTAL FISHERY LANDINGS</b>		4,201,657.53	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>		4,250,064.13	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.01			
<b>West Coast Salmon Troll, Non-Tribal Ocean <sup>3</sup></b>					
Chinook salmon	Oncorhynchus tshawytscha	207,100.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	27,400.00	INDIVIDUAL		
<b>TOTAL FISHERY BYCATCH</b>		234,500.00	INDIVIDUAL		
<b>TOTAL FISHERY LANDINGS</b>		274,300.00	INDIVIDUAL		
<b>TOTAL CATCH (Bycatch + Landings)</b>		508,800.00	INDIVIDUAL		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.46			
<b>West Coast Salmon Troll, Tribal Ocean <sup>3</sup></b>					
Chinook salmon	Oncorhynchus tshawytscha	46,100.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	600.00	INDIVIDUAL		
<b>TOTAL FISHERY BYCATCH</b>		46,700.00	INDIVIDUAL		
<b>TOTAL FISHERY LANDINGS</b>		63,200.00	INDIVIDUAL		
<b>TOTAL CATCH (Bycatch + Landings)</b>		109,900.00	INDIVIDUAL		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>		0.42			

#### FOOTNOTES

- 1) If the bycatch amount for a species is reported as 0, the estimated bycatch amount was less than 0.01 lbs but greater than 0 lbs.
- 2) In fisheries with 100% coverage, we estimated CV's to be zero, as the amount of uncertainty is too small to detect with confidence. We do not report CV's for a small number of protected fish species, as data at the level of aggregation needed for this report were unavailable.
- 3) CV's are not currently available for some protected and prohibited species.