

Table 6.4.1a WEST COAST REGION FISH BYCATCH BY FISHERY (2014) Fishery bycatch ratio = bycatch / (bycatch + landings).

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
California Drift Gillnet (Mesh Size >14 in) for Swordfish and					
Bigeye thresher	<i>Alopias superciliosus</i>	13.42	INDIVIDUAL		
Blue shark	<i>Prionace glauca</i>	130.81	INDIVIDUAL		
Bluntnose sevengill shark	<i>Notorynchus cepedianus</i>	3.35	INDIVIDUAL		
Manta and/or mobula (unidentified)	Mobulidae	3.35	INDIVIDUAL		
Ocean sunfish	<i>Mola mola</i>	1,254.39	INDIVIDUAL		
Opah	<i>Lampris guttatus</i>	10.06	INDIVIDUAL		
Pacific bluefin tuna	<i>Thunnus orientalis</i>	30.19	INDIVIDUAL		
Pelagic stingray	<i>Pteroplatytrygon violacea</i>	3.35	INDIVIDUAL		
Pelagic thresher	<i>Alopias pelagicus</i>	3.35	INDIVIDUAL		
Salmon shark	<i>Lamna ditropis</i>	3.35	INDIVIDUAL		
Shortfin mako	<i>Isurus oxyrinchus</i>	40.25	INDIVIDUAL		
Skipjack tuna	<i>Katsuwonus pelamis</i>	26.83	INDIVIDUAL		
Smooth hammerhead shark	<i>Sphyrna zygaena</i>	90.56	INDIVIDUAL		
Striped marlin	<i>Kajikia audax</i>	6.71	INDIVIDUAL		
Swordfish	<i>Xiphias gladius</i>	20.12	INDIVIDUAL		
Thresher sharks	<i>Alopias</i>	6.71	INDIVIDUAL		
TOTAL FISHERY BYCATCH		1,646.80	INDIVIDUAL		
TOTAL FISHERY LANDINGS		278,138.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		**			
California Halibut Trawl ^{1,3}					
American shad	<i>Alosa sapidissima</i>	190.01	POUND	0.38	
Anchovy (unidentified)	Engraulidae	5.07	POUND	0.06	
Armed box crab	<i>Platymera gaudichaudii</i>	43.55	POUND	0.34	
Barred sand bass	<i>Paralabrax nebulifer</i>	2,899.76	POUND	0.15	
Bat ray	<i>Myliobatis californica</i>	48,508.70	POUND	0.14	
Big skate	<i>Raja binoculata</i>	33,563.53	POUND	0.16	
Bigmouth sole	<i>Hippoglossina stomata</i>	13.69	POUND	0.26	
Bivalves (unidentified)	Bivalvia	18.36	POUND	0.46	
Bluntnose sevengill shark	<i>Notorynchus cepedianus</i>	325.96	POUND	0.48	
Brown irish lord sculpin	<i>Hemilepidotus spinosus</i>	2.69	POUND	0.16	
Brown rockfish - Pacific Coast	<i>Sebastes auriculatus</i>	5.61	POUND	0.06	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Brown smoothhound shark	Mustelus henlei	4,317.42	POUND	0.34	
California halibut	Paralichthys californicus	13,237.42	POUND	0.11	
California lizardfish	Synodus lucioceps	49.48	POUND	0.37	
California scorpionfish	Scorpaena guttata	64.88	POUND	0.31	
California skate	Raja inornata	1,615.22	POUND	0.39	
California tonguefish	Symphurus atricaudus	1.12	POUND	0.20	
Chinook salmon	Oncorhynchus tshawytscha	1.80	POUND		
Crab (unidentified)	Brachyura	5.61	POUND	0.90	
Curlfin sole	Pleuronichthys decurrens	1,151.51	POUND	0.25	
Decorator/spider crab (unidentified)	Majoidea	0.22	POUND	0.06	
Diamond turbot	Hypsopsetta guttulata	1,033.38	POUND	0.23	
Dungeness crab	Cancer magister	571,269.97	POUND	0.09	
English sole - Pacific Coast	Parophrys vetulus	485.71	POUND	0.22	
Fantail sole	Xystreurys liolepis	147.27	POUND	0.34	
Flatfishes (unidentified)	Pleuronectiformes	54.10	POUND	0.69	
Graceful crab	Cancer gracilis	668.67	POUND	0.15	
Green sturgeon	Acipenser medirostris	2,510.94	POUND		
Hermit crab (unidentified)	Paguroidea	12.21	POUND	0.19	
Hornyhead turbot	Pleuronichthys verticalis	172.19	POUND	0.30	
Irregular echinoids	Echinoidea	2,220.54	POUND	0.58	
Jellyfish (unidentified)	Scyphozoa	8,584.83	POUND	0.41	
Kelp bass	Paralabrax clathratus	2.02	POUND	0.56	
Kelp crab (unidentified)	Pugettia	1.80	POUND	0.54	
Leopard shark	Triakis semifasciata	772.03	POUND	0.35	
Lingcod - Pacific Coast	Ophiodon elongatus	0.67	POUND	0.26	
Longfin sanddab	Citharichthys xanthostigma	10.10	POUND	0.37	
Longspine combfish	Zaniolepis latipinnis	38.16	POUND	0.54	
Mantis shrimp	Stomatopoda	16.84	POUND	0.34	
Masking crab	Loxorhynchus crispatus	29.18	POUND	0.38	
Non-humboldt squid (unidentified)	Teuthida	3.50	POUND	0.40	
Northern anchovy	Engraulis mordax	28.65	POUND	0.35	
Nudibranch (unidentified)	Nudibranchia	3.37	POUND	0.06	
Ocean sunfish	Mola mola	65.10	POUND	0.06	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Octopus (unidentified)	Octopoda	129.98	POUND	0.89	
Other identified fish		0.22	POUND	0.98	
Pacific angel shark	Squatina californica	277.92	POUND	0.52	
Pacific electric ray	Torpedo californica	1,983.83	POUND	0.23	
Pacific pompano	Peprilus simillimus	71.39	POUND	0.33	
Pacific rock crab	Cancer antennarius	52.22	POUND	0.50	
Pacific sand lance	Ammodytes hexapterus	0.90	POUND	0.23	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	501.16	POUND	0.29	
Pacific staghorn sculpin	Leptocottus armatus	322.95	POUND	0.16	
Pink seaperch	Zalembeus rosaceus	1.12	POUND	0.44	
Plainfin midshipman	Porichthys notatus	0.45	POUND	0.72	
Poachers (unidentified)	Agonidae	0.22	POUND	0.06	
Purple globe crab	Randallia ornata	117.86	POUND	0.21	
Red rock crab	Cancer productus	5,654.27	POUND	0.14	
Rock crabs	Decapoda	8.98	POUND	0.94	
Salp (unidentified)	Salpidae	1.35	POUND	0.06	
Sand sole - Pacific Coast	Psettichthys melanostictus	2,677.06	POUND	0.36	
Sculpins (unidentified)	Cottidae	80.95	POUND	0.26	
Sea anemones (unidentified)	Actiniaria	163.65	POUND	0.61	
Sea cucumbers (unidentified)	Holothuroidea	26.49	POUND	0.19	
Sea snail (unidentified)		50.74	POUND	0.26	
Sea stars	Asteroidea	134.02	POUND	0.20	
Sea urchins	Echinoidea	6.96	POUND	0.71	
Sharks (unidentified)	Elasmobranchii	5,863.72	POUND	0.69	
Sheep crab	Loxorhynchus grandis	389.94	POUND	0.24	
Shelf rockfishes (other)	Sebastes	0.22	POUND	0.06	
Shiner surfperch	Cymatogaster aggregata	4.94	POUND	0.36	
Shovelnose guitarfish	Rhinobatos productus	52.98	POUND	0.06	
Shrimp (unidentified)	Decapoda	81.31	POUND	0.21	
Skates (unidentified)	Rajidae	853.07	POUND	0.46	
Snailfishes (unidentified)	Liparidae	3.86	POUND	0.55	
Speckled sanddab	Citharichthys stigmaeus	433.00	POUND	0.27	
Spiny dogfish - Pacific Coast	Squalus acanthias	12,513.12	POUND	0.39	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Spiny lobster (unidentified)	Palinuridae	17.06	POUND	0.06	
Spotfin surfperch	Hyperprosopon anale	40.86	POUND	0.43	
Spotted turbot	Pleuronichthys ritteri	8.53	POUND	0.32	
Squids	Teuthida	3.82	POUND	0.06	
Starry flounder - Pacific Coast	Platichthys stellatus	288.61	POUND	0.62	
Striped bass	Morone saxatilis	1,049.27	POUND	0.27	
Surfperch (unidentified)	Embiotocidae	2.69	POUND	0.06	
Thornback	Platyrrhinoidis triseriata	516.38	POUND	0.22	
Thresher shark	Alopias vulpinus	1,263.89	POUND	0.39	
Tope	Galeorhinus galeus	89.80	POUND	0.06	
White croaker	Genyonemus lineatus	592.93	POUND	0.26	
White seabass	Atractoscion nobilis	448.98	POUND	0.98	
White sturgeon	Acipenser transmontanus	897.97	POUND	0.06	
Xantus swimming crab	Portunus xantusii	19.76	POUND	0.18	
Yellow rock crab	Cancer anthonyi	64.65	POUND	0.22	
TOTAL FISHERY BYCATCH		731,918.89	POUND		
TOTAL FISHERY LANDINGS		230,053.30	POUND		
TOTAL CATCH (Bycatch + Landings)		961,972.19	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.76			
California/Oregon Nearshore Rockfish ^{1, 3}					
Amiphpod (unidentified)	Amphipoda	1.00	POUND	0.13	
Barnacles (unidentified)	Cirripedia	10.11	POUND	0.44	
Barred sand bass	Paralabrax nebulifer	13,593.26	POUND	0.30	
Bat ray	Myliobatis californica	542.65	POUND	0.13	
Big skate	Raja binoculata	50.38	POUND	0.06	
Bivalves (unidentified)	Bivalvia	3.61	POUND	0.09	
Black croaker	Cheilotrema saturnum	68.05	POUND	0.13	
Black rockfish	Sebastes melanops	18,989.34	POUND	0.17	
Black surfperch	Embiotoca jacksoni	45,984.24	POUND	0.21	
Black-and-yellow rockfish	Sebastes chrysomelas	1,656.22	POUND	0.31	
Blacksmith	Chromis punctipinnis	399.97	POUND	0.47	
Blue rockfish	Sebastes mystinus	15,987.80	POUND	0.15	
Brittle/basket star (unidentified)	Ophiuroidea	29.85	POUND	0.32	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Brown irish lord sculpin	Hemilepidotus spinosus	38.81	POUND	0.10	
Brown rockfish - Pacific Coast	Sebastes auriculatus	8,427.85	POUND	0.19	
Brown smoothhound shark	Mustelus henlei	184.20	POUND	0.13	
Buffalo sculpin	Enophrys bison	814.69	POUND	0.14	
Butter sole	Isopsetta isolepis	2.65	POUND	0.06	
C-o (c-o turbot) sole	Pleuronichthys coenosus	27.22	POUND	0.13	
Cabezon	Scorpaenichthys marmoratus	22,959.58	POUND	0.33	
Calico rockfish	Sebastes dallii	48.20	POUND	0.18	
California lizardfish	Synodus lucioceps	23.02	POUND	0.16	
California moray	Gymnothorax mordax	831.59	POUND	0.11	
California scorpionfish	Scorpaena guttata	42,628.00	POUND	0.41	
California sheephead	Semicossyphus pulcher	89,287.81	POUND	0.22	
California skate	Raja inornata	495.96	POUND	0.61	
Canary rockfish	Sebastes pinniger	19,903.75	POUND	0.18	
China rockfish	Sebastes nebulosus	1,926.37	POUND	0.17	
Chinook salmon	Oncorhynchus tshawytscha	670.80	POUND		
Chiton (unidentified)	Polyplacophora	199.58	POUND	0.27	
Coho salmon	Oncorhynchus kisutch	405.97	POUND		
Copper rockfish	Sebastes caurinus	600.49	POUND	0.28	
Corals (unidentified)	Anthozoa	1.59	POUND	0.06	
Crab (unidentified)	Brachyura	1.20	POUND	0.09	
Decorator/spider crab (unidentified)	Majoidea	6.02	POUND	0.09	
Dungeness crab	Cancer magister	371.94	POUND	0.16	
Fantail sole	Xystreurys liolepis	14.94	POUND	0.13	
Flatfishes (unidentified)	Pleuronectiformes	231.69	POUND	0.33	
Garibaldi	Hypsypops rubicundus	897.04	POUND	0.38	
Gopher rockfish	Sebastes carnatus	8,011.85	POUND	0.18	
Graceful crab	Cancer gracilis	258.61	POUND	0.13	
Grass rockfish	Sebastes rastrelliger	186.80	POUND	0.38	
Grunt sculpin	Rhamphocottus richardsonii	1.06	POUND	0.06	
Hagfish (unidentified)	Myxinidae	36.20	POUND	0.42	
Halfbanded rockfish	Sebastes semicinctus	18.10	POUND	0.33	
Invertebrates (unidentified)		2.72	POUND	0.13	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Jack smelt	<i>Atherinopsis californiensis</i>	9.96	POUND	0.13	
Kelp bass	<i>Paralabrax clathratus</i>	99,168.26	POUND	0.19	
Kelp greenling	<i>Hexagrammos decagrammus</i>	15,085.58	POUND	0.25	
Kelp rockfish	<i>Sebastes atrovirens</i>	898.97	POUND	0.39	
Kelpfish (unidentified)	Clinidae	81.67	POUND	0.13	
Leopard shark	<i>Triakis semifasciata</i>	438.11	POUND	0.83	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	100,938.97	POUND	0.10	
Masking crab	<i>Loxorhynchus crispatus</i>	9.96	POUND	0.13	
Non-humboldt squid (unidentified)	Teuthida	2.27	POUND	0.05	
Nudibranch (unidentified)	Nudibranchia	89.85	POUND	0.29	
Ocean whitefish	<i>Caulolatilus princeps</i>	280.39	POUND	0.35	
Octopus (unidentified)	Octopoda	597.00	POUND	0.40	
Olive rockfish	<i>Sebastes serranoides</i>	1,265.87	POUND	0.25	
Opaleye	<i>Girella nigricans</i>	387.41	POUND	0.32	
Pacific hagfish	<i>Eptatretus stoutii</i>	14.48	POUND	0.33	
Pacific halibut	<i>Hippoglossus stenolepis</i>	2,144.89	POUND	0.22	
Pacific rock crab	<i>Cancer antennarius</i>	705.88	POUND	0.38	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	4,779.17	POUND	0.56	
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	88.62	POUND	0.46	
Pile surfperch	<i>Rhacochilus vacca</i>	38.24	POUND	0.12	
Poachers (unidentified)	Agonidae	30.76	POUND	0.06	
Puget Sound rockfish	<i>Sebastes emphaeus</i>	2.65	POUND	0.06	
Quillback rockfish	<i>Sebastes maliger</i>	195.32	POUND	0.37	
Rainbow surfperch	<i>Hypsurus caryi</i>	702.11	POUND	0.22	
Red irish lord sculpin	<i>Hemilepidotus hemilepidotus</i>	1,025.53	POUND	0.13	
Red rock crab	<i>Cancer productus</i>	327.14	POUND	0.42	
Rock sole	<i>Paraplagusia bilineata</i>	115.62	POUND	0.32	
Rock wrasse	<i>Halichoeres semicinctus</i>	101.11	POUND	0.16	
Rosethorn rockfish	<i>Sebastes helvomaculatus</i>	21.21	POUND	0.06	
Rosy rockfish	<i>Sebastes rosaceus</i>	21.91	POUND	0.94	
Rubberlip surfperch	<i>Rhacochilus toxotes</i>	376.52	POUND	0.19	
Salmon (unidentified)	Oncorhynchus	137.32	POUND		
Sand sole - Pacific Coast	<i>Psettichthys melanostictus</i>	1.06	POUND	0.06	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sargo	Anisotremus davidsonii	122.50	POUND	0.19	
Sculpins (unidentified)	Cottidae	761.41	POUND	0.26	
Sea anemones (unidentified)	Actiniaria	222.03	POUND	0.23	
Sea cucumbers (unidentified)	Holothuroidea	813.92	POUND	0.25	
Sea snail (unidentified)		5.97	POUND	0.13	
Sea squirts (unidentified)	Asciacea	95.19	POUND	0.13	
Sea stars	Asteroidea	8,264.66	POUND	0.33	
Silver surfperch	Hyperprosopon ellipticum	21.78	POUND	0.13	
Spiny dogfish - Pacific Coast	Squalus acanthias	2,436.58	POUND	0.32	
Sponge (unidentified)	Porifera	0.60	POUND	0.09	
Spotted cusk-eel	Chilara taylori	57.92	POUND	0.45	
Spotted ratfish	Hydrolagus colliei	264.16	POUND	0.12	
Starry skate	Raja stellulata	2,360.79	POUND	0.39	
Striped surfperch	Embiotoca lateralis	372.01	POUND	0.29	
Surfperch (unidentified)	Embiotocidae	98.00	POUND	0.73	
Swell shark	Cephaloscyllium ventriosum	1,719.42	POUND	0.27	
Tope	Galeorhinus galeus	615.43	POUND	0.42	
Treefish	Sebastes serriceps	2,387.54	POUND	0.25	
Tunicata	Tunicata	0.60	POUND	0.09	
Vermilion rockfish	Sebastes miniatus	195.01	POUND	0.43	
Walleye surfperch	Hyperprosopon argenteum	54.44	POUND	0.13	
White croaker	Genyonemus lineatus	59.89	POUND	0.13	
Widow rockfish - Pacific Coast	Sebastes entomelas	24.94	POUND	0.36	
Wolf-eel	Anarrhichthys ocellatus	475.96	POUND	0.15	
Worm (unidentified)		2.72	POUND	0.13	
Yellow rock crab	Cancer anthonyi	54.44	POUND	0.13	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	3,118.78	POUND	0.36	
Yellowtail rockfish	Sebastes flavidus	2,596.21	POUND	0.20	
TOTAL FISHERY BYCATCH		554,119.49	POUND		
TOTAL FISHERY LANDINGS		1,286,056.10	POUND		
TOTAL CATCH (Bycatch + Landings)		1,840,175.59	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.30			
Washington/Oregon/California Pink Shrimp^{1,3}					

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
American shad	<i>Alosa sapidissima</i>	223.31	POUND	0.19	
Anchovy (unidentified)	Engraulidae	24,941.61	POUND	0.69	
Aplacophora (unidentified)	Aplacophora	5.54	POUND	0.21	
Armed box crab	<i>Platymera gaudichaudii</i>	3.60	POUND	0.02	
Arrowtooth flounder - Pacific Coast	<i>Atheresthes stomias</i>	88,986.64	POUND	0.09	
Aurora rockfish	<i>Sebastes aurora</i>	25.72	POUND	0.68	
Barnacles (unidentified)	Cirripedia	2.12	POUND	0.06	
Barracudinas (unidentified)	Paralepididae	1.03	POUND	0.02	
Basketweave cusk-eel	<i>Ophidion scrippsae</i>	4.22	POUND	0.02	
Bearded eelpout	<i>Lycinema barbatum</i>	1.54	POUND	0.02	
Big skate	<i>Raja binoculata</i>	82.41	POUND	0.17	
Bigfin eelpout	<i>Lycodes cortezianus</i>	5,575.12	POUND	0.31	
Bivalves (unidentified)	Bivalvia	28.86	POUND	0.28	
Blackedge poacher	<i>Xeneretmus latifrons</i>	394.65	POUND	0.24	
Blue rockfish	<i>Sebastes mystinus</i>	0.51	POUND	0.02	
Bluebarred prickleback	<i>Plectobranthus evides</i>	310.58	POUND	0.76	
Bocaccio	<i>Sebastes paucispinis</i>	66.14	POUND	0.32	
Brittle/basket star (unidentified)	Ophiuroidea	71.91	POUND	0.28	
Bull sculpin	<i>Enophrys taurina</i>	3.09	POUND	0.02	
California skate	<i>Raja inornata</i>	0.97	POUND	0.07	
Canary rockfish	<i>Sebastes pinniger</i>	148.15	POUND	0.51	
Chilipepper	<i>Sebastes goodei</i>	16,061.13	POUND	0.18	
Cowcod	<i>Sebastes levis</i>	0.97	POUND	0.04	
Crustacean (unidentified)	Crustacea	0.51	POUND	0.02	
Curlfin sole	<i>Pleuronichthys decurrens</i>	0.51	POUND	0.02	
Cusk-eel (unidentified)	Ophidiidae	3.67	POUND	0.02	
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	54,098.24	POUND	0.07	
Decorator/spider crab (unidentified)	Majoidea	19.65	POUND	0.56	
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	5,090.57	POUND	0.25	
Dungeness crab	<i>Cancer magister</i>	75.03	POUND	0.21	
Dwarf wrymouth	<i>Cryptacanthodes aleutensis</i>	8.85	POUND	0.20	
Eelpouts	Zoarcidae	28,932.20	POUND	0.10	
English sole - Pacific Coast	<i>Parophrys vetulus</i>	125.74	POUND	0.33	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Eulachon	Thaleichthys pacificus	1,730,947.99	POUND		
Flatfishes (unidentified)	Pleuronectiformes	19,557.05	POUND	0.27	
Flathead sole	Hippoglossoides elassodon	4,665.64	POUND	0.09	
Greenspotted rockfish	Sebastes chlorostictus	20.06	POUND	0.45	
Greenstriped rockfish	Sebastes elongatus	1,714.11	POUND	0.09	
Hagfish (unidentified)	Myxiniidae	5,041.33	POUND	0.12	
Hatchetfish (unidentified)	Sternoptychidae	7.01	POUND	0.15	
Hermit crab (unidentified)	Paguroidea	0.32	POUND	0.04	
Herring (unidentified)	Clupea	137.86	POUND	0.61	
Invertebrates (unidentified)		797.40	POUND	0.18	
Irregular echinoids	Echinoidea	2,010.35	POUND	0.39	
Isopod (unidentified)	Isopoda	100.75	POUND	0.23	
Jellyfish (unidentified)	Scyphozoa	2,651.57	POUND	0.17	
Jumbo squid	Dosidicus gigas	4.12	POUND	0.02	
Lanternfishes	Myctophidae	367.06	POUND	0.21	
Leaf-like eel	Thalassenchelys coheni	0.51	POUND	0.02	
Lingcod - Pacific Coast	Ophiodon elongatus	781.45	POUND	0.14	
Longnose skate - Pacific Coast	Raja rhina	1,116.94	POUND	0.17	
Manefishes	Caristiidae	1.03	POUND	0.04	
Medusafish	Icichthys lockingtoni	29.76	POUND	0.29	
Midshipman (toadfish) (unidentified)	Porichthys	2.25	POUND	0.04	
Mollusk (unidentified)	Mollusca	0.51	POUND	0.02	
Non-eulachon smelt (unidentified)	Osmeriformes	222,093.37	POUND	0.16	
Non-humboldt squid (unidentified)	Teuthida	106,666.00	POUND	0.09	
Northern anchovy	Engraulis mordax	124.90	POUND	0.33	
Northern spearnose poacher	Agonopsis vulsa	3.60	POUND	0.51	
Nudibranch (unidentified)	Nudibranchia	210.73	POUND	0.21	
Octopus (unidentified)	Octopoda	2,354.02	POUND	0.21	
Other identified fish		2,854.47	POUND	0.15	
Pacific argentine	Argentina sialis	22.22	POUND	0.57	
Pacific cod - Pacific Coast	Gadus macrocephalus	329.31	POUND	0.40	
Pacific hagfish	Eptatretus stoutii	1,202.71	POUND	0.22	
Pacific hake	Merluccius productus	503,599.43	POUND	0.13	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific herring	<i>Clupea pallasii</i>	46,274.85	POUND	0.13	
Pacific lamprey	<i>Entosphenus tridentatus</i>	43.37	POUND	0.09	
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	21,995.15	POUND	0.13	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	12,845.71	POUND	0.17	
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	10.10	POUND	0.20	
Pacific saury	<i>Cololabis saira</i>	0.51	POUND	0.02	
Pacific tom cod	<i>Microgadus proximus</i>	8.94	POUND	0.16	
Peanut worm (unidentified)	<i>Sipuncula</i>	14.78	POUND	0.21	
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	5,331.23	POUND	0.19	
Plainfin midshipman	<i>Porichthys notatus</i>	0.64	POUND	0.04	
Poachers (unidentified)	Agonidae	2,608.12	POUND	0.08	
Prickleback (unidentified)	Stichaeidae	189.79	POUND	0.18	
Prowfish	<i>Zaprora silenus</i>	3.19	POUND	0.02	
Pygmy rockfish	<i>Sebastes wilsoni</i>	8.33	POUND	0.34	
Red brotula	<i>Brosmophycis marginata</i>	250.02	POUND	0.02	
Redbanded rockfish	<i>Sebastes babcocki</i>	173.58	POUND	0.21	
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	47,924.57	POUND	0.07	
Rock sole	<i>Paraplagusia bilineata</i>	1,454.03	POUND	0.16	
Ronquil (unidentified)	Bathymasteridae	0.51	POUND	0.02	
Rosy rockfish	<i>Sebastes rosaceus</i>	2.16	POUND	0.02	
Rougheye rockfish - Pacific Coast	<i>Sebastes aleutianus</i>	37.40	POUND	0.28	
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	685.04	POUND	0.43	
Salp (unidentified)	Salpidae	271.97	POUND	0.21	
Sand sole - Pacific Coast	<i>Psettichthys melanostictus</i>	21.22	POUND	0.16	
Sanddabs (unidentified)	<i>Citharichthys</i>	57.92	POUND	0.17	
Sandpaper skate	<i>Bathyraja interrupta</i>	68.63	POUND	0.83	
Sculpins (unidentified)	Cottidae	489.99	POUND	0.33	
Sea anemones (unidentified)	Actiniaria	1,724.97	POUND	0.21	
Sea cucumbers (unidentified)	Holothuroidea	4,168.85	POUND	0.13	
Sea pens	Pennatulacea	17.59	POUND	0.64	
Sea snail (unidentified)		76.13	POUND	0.53	
Sea squirts (unidentified)	Ascidiacea	9.05	POUND	0.39	
Sea stars	Asteroidea	1,545.41	POUND	0.13	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sea urchins	Echinoidea	670.05	POUND	0.18	
Sea whips	Pennatulacea	239.29	POUND	0.33	
Sea whips/fans	Holaxonia	78.39	POUND	0.54	
Sharpchin rockfish	Sebastes zacentrus	19.44	POUND	0.35	
Shelf rockfishes (other)	Sebastes	12,596.55	POUND	0.19	
Shiner surfperch	Cymatogaster aggregata	2,295.13	POUND	0.27	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	19,537.22	POUND	0.12	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	342.09	POUND	0.21	
Shrimp (unidentified)	Decapoda	3,498,634.32	POUND	0.10	
Skates (unidentified)	Rajidae	104.83	POUND	0.68	
Slender sole	Lyopsetta exilis	278,423.41	POUND	0.07	
Slim sculpin	Radulinus asprellus	755.50	POUND	0.65	
Slope rockfishes (other)	Sebastes	51.44	POUND	0.02	
Smelt (unidentified)	Osmeriformes	37,159.52	POUND	0.29	
Snailfishes (unidentified)	Liparidae	1.03	POUND	0.04	
Southern Tanner crab	Chionoecetes bairdi	0.51	POUND	0.02	
Southern spearnose poacher	Agonopsis sterletus	0.51	POUND	0.02	
Speckled sanddab	Citharichthys stigmaeus	53.50	POUND	0.25	
Spiny dogfish - Pacific Coast	Squalus acanthias	65.34	POUND	0.49	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	1,579.66	POUND	0.19	
Sponge (unidentified)	Porifera	7.67	POUND	0.06	
Spotted ratfish	Hydrolagus colliei	156.59	POUND	0.41	
Squat lobster (unidentified)	Anomura	80.21	POUND	0.22	
Squids	Teuthida	9,636.66	POUND	0.34	
Stripetail rockfish	Sebastes saxicola	3,581.79	POUND	0.17	
Surfperch (unidentified)	Embiotocidae	1,170.33	POUND	0.25	
Tunicata	Tunicata	111.84	POUND	0.20	
Vermilion rockfish	Sebastes miniatus	33.95	POUND	0.06	
Viperfishes (unidentified)	Chauliodontinae	7.51	POUND	0.07	
Walleye pollock	Gadus chalcogrammus	18.39	POUND	0.50	
Whitebait smelt	Allosmerus elongatus	275,024.59	POUND	0.11	
Whitebarred prickleback	Poroclinus rothrocki	292.24	POUND	0.16	
Widow rockfish - Pacific Coast	Sebastes entomelas	36.89	POUND	0.26	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Worm (unidentified)		71.21	POUND	0.21	
Wrymouth (unidentified)	Cryptacanthodes	57.87	POUND	0.15	
Yellow rock crab	Cancer anthonyi	70.31	POUND	0.06	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2.16	POUND	0.02	
Yellowtail rockfish	Sebastes flavidus	99.60	POUND	0.81	
TOTAL FISHERY BYCATCH		7,126,091.91	POUND		
TOTAL FISHERY LANDINGS		91,738,300.70	POUND		
TOTAL CATCH (Bycatch + Landings)		98,864,392.61	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.07			
West Coast Groundfish Non-Trawl Gear: Limited Entry					
Aleutian skate	Bathyraja aleutica	238.31	POUND	0.35	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	47,714.73	POUND	0.10	
Aurora rockfish	Sebastes aurora	192.85	POUND	0.46	
Big skate	Raja binoculata	6,717.18	POUND	0.22	
Bigfin eelpout	Lycodes corteziianus	7.35	POUND	0.26	
Black coral	Antipatharia	2.53	POUND	0.12	
Black skate	Bathyraja trachura	1,833.43	POUND	0.28	
Blackgill rockfish	Sebastes melanostomus	21,143.36	POUND	0.25	
Blue shark	Prionace glauca	12,524.69	POUND	0.12	
Brachiopod (unidentified)	Brachiopoda	0.37	POUND	0.06	
Brittle/basket star (unidentified)	Ophiuroidea	5.58	POUND	0.21	
Brown box crab	Lopholithodes foraminatus	259.73	POUND	0.38	
Brown cat shark	Apristurus brunneus	1,509.10	POUND	0.13	
California grenadier	Nezumia stelgidolepis	339.54	POUND	0.19	
California slickhead	Alepocephalus tenebrosus	53.28	POUND	0.61	
Canary rockfish	Sebastes pinniger	91.70	POUND	0.09	
Chilipepper	Sebastes goodei	5.88	POUND	0.90	
Chiton (unidentified)	Polyplacophora	0.37	POUND	0.06	
Coho salmon	Oncorhynchus kisutch	166.15	POUND		
Cowcod	Sebastes levis	11.39	POUND	0.04	
Crinoids (unidentified)	Crinoidea	6.85	POUND	0.26	
Curlfin sole	Pleuronichthys decurrens	3.08	POUND	0.07	
Darkblotched rockfish - Pacific Coast	Sebastes cramerii	1,272.91	POUND	0.39	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Decorator/spider crab (unidentified)	Majoidea	7.78	POUND	0.23	
Deepsea sole	Embassichthys bathybius	13.46	POUND	0.35	
Dover sole - Pacific Coast	Microstomus pacificus	2,956.76	POUND	0.14	
Dungeness crab	Cancer magister	1,867.73	POUND	0.19	
Eelpouts	Zoarcidae	22.60	POUND	0.40	
Filetail cat shark	Parmaturus xaniurus	450.04	POUND	0.24	
Flathead sole	Hippoglossoides elassodon	15.73	POUND	0.07	
Giant grenadier	Albatrossia pectoralis	13,527.74	POUND	0.21	
Gorgonian coral (unidentified)	Alcyonacea	1.84	POUND	0.17	
Greenstriped rockfish	Sebastes elongatus	473.10	POUND	0.15	
Hagfish (unidentified)	Myxinidae	827.71	POUND	0.12	
Hair crab	Paralomis multispina	23.99	POUND	0.07	
Halfbanded rockfish	Sebastes semicinctus	10.05	POUND	0.07	
Hermit crab (unidentified)	Paguroidea	3.08	POUND	0.27	
Horny gorgonians	Holaxonia	20.01	POUND	0.71	
Hydrocoral	Hydroidolina	6.60	POUND	0.05	
Invertebrates (unidentified)		9.34	POUND	0.31	
Irregular echinoids	Echinoidea	0.49	POUND	0.07	
Isopod (unidentified)	Isopoda	2.59	POUND	0.20	
Jellyfish (unidentified)	Scyphozoa	6.32	POUND	0.35	
Lanternfishes	Myctophidae	0.67	POUND	0.07	
Lingcod - Pacific Coast	Ophiodon elongatus	9,061.72	POUND	0.17	
Longnose cat shark	Apristurus kampae	40.61	POUND	0.12	
Longnose skate - Pacific Coast	Raja rhina	74,657.18	POUND	0.12	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	51.24	POUND	0.20	
Mollusk (unidentified)	Mollusca	0.35	POUND	0.04	
Non-humboldt squid (unidentified)	Teuthida	2.27	POUND	0.07	
Octopus (unidentified)	Octopoda	330.22	POUND	0.33	
Pacific cod - Pacific Coast	Gadus macrocephalus	619.01	POUND	0.39	
Pacific flatnose	Antimora microlepis	521.25	POUND	0.17	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	10,318.30	POUND	0.19	
Pacific hagfish	Eptatretus stoutii	31.66	POUND	0.48	
Pacific hake	Merluccius productus	265.03	POUND	0.25	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific halibut	Hippoglossus stenolepis	381,682.59	POUND	0.14	
Pacific herring	Clupea pallasii	1.46	POUND	0.07	
Pacific ocean perch - Pacific Coast	Sebastes alutus	5.88	POUND	0.94	
Pacific sleeper shark	Somniosus pacificus	5,547.43	POUND	0.17	
Pelagic thresher	Alopias pelagicus	11,324.63	POUND	0.23	
Petrable sole - Pacific Coast	Eopsetta jordani	237.63	POUND	0.47	
Redbanded rockfish	Sebastes babcocki	5,376.82	POUND	0.27	
Redstripe rockfish	Sebastes proriger	23.56	POUND	0.94	
Rosethorn rockfish	Sebastes helvomaculatus	378.48	POUND	0.20	
Rosy rockfish	Sebastes rosaceus	4.23	POUND	0.04	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	22,407.25	POUND	0.24	
Sablefish - Pacific Coast	Anoplopoma fimbria	443,511.50	POUND	0.10	
Salmon (unidentified)	Oncorhynchus	43.87	POUND		
Salp (unidentified)	Salpidae	2.90	POUND	0.04	
Sandpaper skate	Bathyraja interrupta	1,321.90	POUND	0.16	
Scarlet king crab	Lithodes couesi	143.97	POUND	0.18	
Sculpins (unidentified)	Cottidae	1.72	POUND	0.07	
Sea anemones (unidentified)	Actiniaria	38.46	POUND	0.18	
Sea cucumbers (unidentified)	Holothuroidea	51.44	POUND	0.16	
Sea pens	Pennatulacea	3.64	POUND	0.17	
Sea snail (unidentified)		870.79	POUND	0.20	
Sea stars	Asteroidea	1,835.30	POUND	0.11	
Sea urchins	Echinoidea	17,793.58	POUND	0.18	
Sea whips	Pennatulacea	0.92	POUND	0.04	
Sharks (unidentified)	Elasmobranchii	826.81	POUND	0.24	
Sharpchin rockfish	Sebastes zacentrus	32.65	POUND	0.33	
Shortraker rockfish	Sebastes borealis	1,604.02	POUND	0.39	
Shortraker/rougheye rockfish	Sebastes	145.00	POUND	0.13	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	5,492.34	POUND	0.20	
Shrimp (unidentified)	Decapoda	1.78	POUND	0.12	
Silvergray rockfish	Sebastes brevispinis	89.30	POUND	0.79	
Skates (unidentified)	Rajidae	36.75	POUND	1.00	
Snailfishes (unidentified)	Liparidae	5.35	POUND	0.07	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Soft coral	Alcyonacea	4.02	POUND	0.16	
Southern Tanner crab	Chionoecetes bairdi	1.65	POUND	0.07	
Spiny dogfish - Pacific Coast	Squalus acanthias	310,892.95	POUND	0.12	
Spiny king crab	Paralithodes rathbuni	12.86	POUND	0.31	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	28.26	POUND	0.63	
Sponge (unidentified)	Porifera	26.29	POUND	0.26	
Spongy gorgonians	Scleraxonia	40.24	POUND	0.70	
Spotted ratfish	Hydrolagus colliciei	3,007.80	POUND	0.15	
Tanner crabs	Chionoecetes	17,860.73	POUND	0.22	
Tanneri tanner crab	Chionoecetes tanneri	2,303.51	POUND	0.21	
Threadfin slickhead	Talismania bifurcata	46.96	POUND	0.40	
Tope	Galeorhinus galeus	2,397.58	POUND	0.60	
Viperfishes (unidentified)	Chauliodontinae	1.46	POUND	0.29	
Widow rockfish - Pacific Coast	Sebastes entomelas	17.27	POUND	0.90	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	1,057.91	POUND	0.18	
Yellowtail rockfish	Sebastes flavidus	650.21	POUND	0.35	
TOTAL FISHERY BYCATCH		1,449,440.48	POUND		
TOTAL FISHERY LANDINGS		2,644,901.08	POUND		
TOTAL CATCH (Bycatch + Landings)		4,094,341.56	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.35			
West Coast Groundfish Non-Trawl Gear: Non-Endorsed					
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	10,744.41	POUND	0.39	
Aurora rockfish	Sebastes aurora	23.67	POUND	0.26	
Barred sand bass	Paralabrax nebulifer	112.61	POUND	0.14	
Big skate	Raja binoculata	604.87	POUND	0.23	
Black hagfish	Eptatretus deani	819.41	POUND	0.18	
Black skate	Bathyraja trachura	32,150.49	POUND	0.21	
Blackgill rockfish	Sebastes melanostomus	586.15	POUND	0.52	
Blob sculpin	Psychrolutes phrictus	141.97	POUND	0.11	
Blue shark	Prionace glauca	4,807.88	POUND	0.54	
Bluntnose sixgill shark	Hexanchus griseus	24.75	POUND	0.14	
Brittle/basket star (unidentified)	Ophiuroidea	1.35	POUND	0.11	
Brown cat shark	Apristurus brunneus	15,830.95	POUND	0.16	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Brown rockfish - Pacific Coast	Sebastes auriculatus	39.19	POUND	0.14	
California grenadier	Nezumia stelgidolepis	686.52	POUND	0.27	
California king crab	Paralithodes californiensis	212.43	POUND	0.33	
California sheephead	Semicossyphus pulcher	101.06	POUND	0.14	
California slickhead	Alepocephalus tenebrosus	2,828.85	POUND	0.30	
Canary rockfish	Sebastes pinniger	79.73	POUND	0.11	
Crab (unidentified)	Brachyura	19.38	POUND	0.42	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	3,952.50	POUND	0.74	
Decorator/spider crab (unidentified)	Majoidea	0.68	POUND	0.11	
Deep-sea rock crab	Glyptolithodes cristatipes	2,486.11	POUND	0.29	
Deep-sea spider crab	Paralomis manningi	4.12	POUND	0.14	
Deepsea skate	Bathyraja abyssicola	2,254.50	POUND	0.17	
Deepsea sole	Embassichthys bathybius	85.23	POUND	0.14	
Dover sole - Pacific Coast	Microstomus pacificus	3,333.91	POUND	0.15	
Dungeness crab	Cancer magister	377.44	POUND	0.66	
Filetail cat shark	Parmaturus xaniurus	1,659.23	POUND	0.35	
Giant grenadier	Albatrossia pectoralis	20,653.21	POUND	0.25	
Gopher rockfish	Sebastes carnatus	4.12	POUND	0.14	
Gorgonian coral (unidentified)	Alcyonacea	18.83	POUND	0.34	
Grenadiers	Macrouridae	554.06	POUND	0.73	
Hagfish (unidentified)	Myxinidae	680.05	POUND	0.19	
Hermit crab (unidentified)	Paguroidea	0.68	POUND	0.11	
Invertebrates (unidentified)		704.07	POUND	0.19	
Irregular echinoids	Echinoidea	3.38	POUND	0.11	
Isopod (unidentified)	Isopoda	0.51	POUND	0.11	
Jellyfish (unidentified)	Scyphozoa	4.12	POUND	0.14	
Kelp bass	Paralabrax clathratus	507.36	POUND	0.14	
King crab (unidentified)	Lithodidae	82.50	POUND	0.99	
Lingcod - Pacific Coast	Ophiodon elongatus	1,332.12	POUND	0.13	
Longnose cat shark	Apristurus kampae	6,260.76	POUND	0.24	
Longnose skate - Pacific Coast	Raja rhina	52,676.12	POUND	0.26	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	14,864.41	POUND	0.19	
Mackerel (unidentified)	Scombridae	96.23	POUND	0.14	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Octopus (unidentified)	Octopoda	355.85	POUND	0.39	
Other identified fish		247.45	POUND	0.57	
Pacific black dogfish	Centroscyllium nigrum	1,906.15	POUND	0.42	
Pacific flatnose	Antimora microlepis	2,977.34	POUND	0.29	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	91,015.79	POUND	0.39	
Pacific hagfish	Eptatretus stoutii	145.72	POUND	0.49	
Pacific hake	Merluccius productus	571.40	POUND	0.15	
Pacific halibut	Hippoglossus stenolepis	7,543.51	POUND	0.29	
Pacific ocean perch - Pacific Coast	Sebastes alutus	134.25	POUND	0.74	
Pacific sleeper shark	Somniosus pacificus	131,137.41	POUND	0.24	
Pelagic thresher	Alopias pelagicus	1,512.17	POUND	0.14	
Redbanded rockfish	Sebastes babcocki	389.27	POUND	0.47	
Rock sole	Paraplagusia bilineata	38.58	POUND	0.11	
Rosethorn rockfish	Sebastes helvomaculatus	6.69	POUND	0.11	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	131.68	POUND	0.68	
Sablefish - Pacific Coast	Anoplopoma fimbria	189,519.41	POUND	0.17	
Salp (unidentified)	Salpidae	6.09	POUND	0.11	
Sandpaper skate	Bathyraja interrupta	665.18	POUND	0.24	
Scarlet king crab	Lithodes couesi	135.37	POUND	0.27	
Sea anemones (unidentified)	Actiniaria	501.13	POUND	0.22	
Sea cucumbers (unidentified)	Holothuroidea	996.92	POUND	0.20	
Sea pens	Pennatulacea	14.38	POUND	0.42	
Sea snail (unidentified)		15.29	POUND	0.26	
Sea stars	Asteroidea	2,072.85	POUND	0.25	
Sea urchins	Echinoidea	228.63	POUND	0.35	
Sea whips	Pennatulacea	18.50	POUND	0.29	
Sharks (unidentified)	Elasmobranchii	4,811.44	POUND	0.34	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	27,243.29	POUND	0.15	
Skates (unidentified)	Rajidae	206.20	POUND	0.15	
Soft coral	Alcyonacea	46.89	POUND	0.29	
Spiky king crab	Neolithodes diomedae	115.48	POUND	0.15	
Spiny dogfish - Pacific Coast	Squalus acanthias	10,807.25	POUND	0.50	
Spiny king crab	Paralithodes rathbuni	4.12	POUND	0.14	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Splitnose rockfish - Pacific Coast	Sebastes diploproa	42.70	POUND	0.09	
Sponge (unidentified)	Porifera	9,358.94	POUND	0.16	
Spotted ratfish	Hydrolagus colliei	1,007.67	POUND	0.22	
Squat lobster (unidentified)	Anomura	6.87	POUND	0.14	
Tanner crabs	Chionoecetes	20.66	POUND	0.09	
Tanneri tanner crab	Chionoecetes tanneri	232.59	POUND	0.27	
Thornyheads	Sebastolobus	8.23	POUND	0.11	
Tunicata	Tunicata	2.03	POUND	0.11	
Yellowtail rockfish	Sebastes flavidus	103.90	POUND	0.11	
TOTAL FISHERY BYCATCH		668,717.19	POUND		
TOTAL FISHERY LANDINGS		2,416,080.64	POUND		
TOTAL CATCH (Bycatch + Landings)		3,084,797.83	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.22			
West Coast Limited Entry Bottom Trawl; Fixed Gear ^{1, 2}					
Aleutian skate	Bathyraja aleutica	61.66	POUND	0	
Angulatus tanner crab	Chionoecetes angulatus	132.53	POUND	0	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	4,964.82	POUND	0	
Aurora rockfish	Sebastes aurora	8.51	POUND	0	
Bay pipefish	Syngnathus leptorhynchus	0.05	POUND	0	
Big skate	Raja binoculata	155.54	POUND	0	
Black hagfish	Eptatretus deani	3.06	POUND	0	
Black skate	Bathyraja trachura	288.76	POUND	0	
Blackgill rockfish	Sebastes melanostomus	213.14	POUND	0	
Blue shark	Prionace glauca	7,224.64	POUND	0	
Bocaccio	Sebastes paucispinis	0.65	POUND	0	
Brown box crab	Lopholithodes foraminatus	4.35	POUND	0	
Brown cat shark	Apristurus brunneus	68.39	POUND	0	
California king crab	Paralithodes californiensis	8.05	POUND	0	
California slickhead	Alepocephalus tenebrosus	3.02	POUND	0	
Catshark (unidentified)	Scyliorhinidae	1,380.19	POUND	0	
Coho salmon	Oncorhynchus kisutch	141.57	POUND		
Crab (unidentified)	Brachyura	2,553.54	POUND	0	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	3.32	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Decorator/spider crab (unidentified)	Majoidea	43.22	POUND	0	
Deepsea skate	Bathyraja abyssicola	23.55	POUND	0	
Deepsea sole	Embassichthys bathybius	28.86	POUND	0	
Dover sole - Pacific Coast	Microstomus pacificus	357.25	POUND	0	
Dungeness crab	Cancer magister	841.19	POUND	0	
Eelpouts	Zoarcidae	8.20	POUND	0	
Filetail cat shark	Parmaturus xaniurus	1,531.43	POUND	0	
Flat-legged spider crab	Paralomis verrilli	89.79	POUND	0	
Giant grenadier	Albatrossia pectoralis	3,678.82	POUND	0	
Giant wrymouth	Cryptacanthodes giganteus	21.94	POUND	0	
Greenstriped rockfish	Sebastes elongatus	3.39	POUND	0	
Grenadiers	Macrouridae	605.40	POUND	0	
Hagfish (unidentified)	Myxinidae	9.54	POUND	0	
Hair crab	Paralomis multispina	2,583.77	POUND	0	
Jellyfish (unidentified)	Scyphozoa	15.00	POUND	0	
Lanternfishes	Myctophidae	0.35	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	300.72	POUND	0	
Longnose cat shark	Apristurus kampae	10.11	POUND	0	
Longnose skate - Pacific Coast	Raja rhina	1,229.46	POUND	0	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	807.54	POUND	0	
Non-humboldt squid (unidentified)	Teuthida	0.17	POUND	0	
Octopus (unidentified)	Octopoda	98.79	POUND	0	
Pacific flatnose	Antimora microlepis	151.69	POUND	0	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	11,056.38	POUND	0	
Pacific hagfish	Eptatretus stoutii	1.05	POUND	0	
Pacific hake	Merluccius productus	357.71	POUND	0	
Pacific halibut	Hippoglossus stenolepis	9,087.83	POUND	0	
Pacific ocean perch - Pacific Coast	Sebastes alutus	4.33	POUND	0	
Pacific sleeper shark	Somniosus pacificus	3,109.80	POUND	0	
Petrale sole - Pacific Coast	Eopsetta jordani	19.55	POUND	0	
Redbanded rockfish	Sebastes babcocki	19.50	POUND	0	
Ronquil (unidentified)	Bathymasteridae	3.15	POUND	0	
Rosethorn rockfish	Sebastes helvomaculatus	2.43	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	207.57	POUND	0	
Sablefish - Pacific Coast	Anoplopoma fimbria	28,541.34	POUND	0	
Sandpaper skate	Bathyraja interrupta	88.66	POUND	0	
Scarlet king crab	Lithodes couesi	119.66	POUND	0	
Sea cucumbers (unidentified)	Holothuroidea	10.31	POUND	0	
Sea urchins	Echinoidea	1,564.49	POUND	0	
Sharks (unidentified)	Elasmobranchii	32.27	POUND	0	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	0.44	POUND	0	
Shortraker rockfish	Sebastes borealis	27.77	POUND	0	
Shortraker/rougheye rockfish	Sebastes	34.01	POUND	0	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	1,285.42	POUND	0	
Shrimp (unidentified)	Decapoda	2.65	POUND	0	
Snailfishes (unidentified)	Liparidae	38.78	POUND	0	
Southern Tanner crab	Chionoecetes bairdi	0.60	POUND	0	
Spiky king crab	Neolithodes diomedea	55.38	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	72,629.58	POUND	0	
Spiny king crab	Paralithodes rathbuni	0.45	POUND	0	
Spotted ratfish	Hydrolagus colliei	94.47	POUND	0	
Tanner crabs	Chionoecetes	695.17	POUND	0	
Tanner tanner crab	Chionoecetes tanneri	9,309.30	POUND	0	
Vermilion rockfish	Sebastes miniatus	5.23	POUND	0	
Viperfishes (unidentified)	Chauliodontinae	0.60	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	8.07	POUND	0	
Wrymouth (unidentified)	Cryptacanthodes	14.44	POUND	0	
Yellowtail rockfish	Sebastes flavidus	36.27	POUND	0	
TOTAL FISHERY BYCATCH		168,120.63	POUND		
TOTAL FISHERY LANDINGS		1,728,342.20	POUND		
TOTAL CATCH (Bycatch + Landings)		1,896,462.83	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.09			
West Coast Limited Entry Bottom Trawl; Groundfish					
Abyssal grenadier	Coryphaenoides armatus	2.58	POUND	0	
Aleutian skate	Bathyraja aleutica	3,375.16	POUND	0	
American shad	Alosa sapidissima	8,846.76	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Anchovy (unidentified)	Engraulidae	3.41	POUND	0	
Angulatus tanner crab	Chionoecetes angulatus	777.64	POUND	0	
Armed box crab	Platymera gaudichaudii	398.72	POUND	0	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	1,113,426.35	POUND	0	
Atka mackerel	Pleurogrammus monopterygius	0.83	POUND	0	
Aurora rockfish	Sebastes aurora	13,848.84	POUND	0	
Bank rockfish	Sebastes rufus	135.28	POUND	0	
Barreleye spookfish (unidentified)	Opisthoproctidae	71.01	POUND	0	
Big skate	Raja binoculata	157,807.37	POUND	0	
Bigeye starnose poacher	Bathyagonus pentacanthus	0.10	POUND	0	
Bigfin eelpout	Lycodes cortezianus	3,007.14	POUND	0	
Bivalves (unidentified)	Bivalvia	36.78	POUND	0	
Black eelpout	Lycodes diapterus	56.76	POUND	0	
Black rockfish	Sebastes melanops	708.92	POUND	0	
Black skate	Bathyraja trachura	41,437.93	POUND	0	
Blackbelly eelpout	Lycodes pacificus	0.62	POUND	0	
Blackgill rockfish	Sebastes melanostomus	2,020.90	POUND	0	
Blob sculpin	Psychrolutes phrictus	197.91	POUND	0	
Blue rockfish	Sebastes mystinus	0.00	POUND	0	
Bluntnose sixgill shark	Hexanchus griseus	124.04	POUND	0	
Bocaccio	Sebastes paucispinis	757.73	POUND	0	
Brown box crab	Lopholithodes foraminatus	1,902.55	POUND	0	
Brown cat shark	Apristurus brunneus	85,075.42	POUND	0	
Brown rockfish - Pacific Coast	Sebastes auriculatus	3.88	POUND	0	
Brown smoothhound shark	Mustelus henlei	31.08	POUND	0	
Butter sole	Isopsetta isolepis	1,446.37	POUND	0	
Cabazon	Scorpaenichthys marmoratus	11.79	POUND	0	
California grenadier	Nezumia stelgidolepis	586.64	POUND	0	
California king crab	Paralithodes californiensis	35.63	POUND	0	
California skate	Raja inornata	1,909.11	POUND	0	
California slickhead	Alepocephalus tenebrosus	30,806.32	POUND	0	
Canary rockfish	Sebastes pinniger	86.36	POUND	0	
Catshark (unidentified)	Scyliorhinidae	426.89	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Chilipepper	Sebastes goodei	85,649.73	POUND	0	
Chinook salmon	Oncorhynchus tshawytscha	3,624.73	POUND		
Coho salmon	Oncorhynchus kisutch	90.11	POUND		
Copper rockfish	Sebastes caurinus	0.00	POUND	0	
Cowcod	Sebastes levis	6.41	POUND	0	
Crab (unidentified)	Brachyura	1.30	POUND	0	
Curlfin sole	Pleuronichthys decurrens	2,311.08	POUND	0	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	17,973.63	POUND	0	
Decorator/spider crab (unidentified)	Majoidea	5.66	POUND	0	
Deep-sea spider crab	Paralomis manningi	1.03	POUND	0	
Deepsea skate	Bathyraja abyssicola	1,773.55	POUND	0	
Deepsea sole	Embassichthys bathybius	37,465.96	POUND	0	
Dover sole - Pacific Coast	Microstomus pacificus	282,627.95	POUND	0	
Dragonfishes (unidentified)	Melanostomiinae	2.81	POUND	0	
Dreamer (unidentified)	Oneirodidae	0.10	POUND	0	
Dungeness crab	Cancer magister	254,266.39	POUND	0	
Eelpouts	Zoarcidae	37,390.75	POUND	0	
English sole - Pacific Coast	Parophrys vetulus	105,209.81	POUND	0	
Eulachon	Thaleichthys pacificus	287.66	POUND		
Fangtooth	Anoplogaster cornuta	0.15	POUND	0	
Fantail sole	Xystreuryx liolepis	156.65	POUND	0	
Filetail cat shark	Parmaturus xaniurus	9,730.35	POUND	0	
Flag rockfish	Sebastes rubrivinctus	0.23	POUND	0	
Flatfishes (unidentified)	Pleuronectiformes	164.78	POUND	0	
Flathead sole	Hippoglossoides elassodon	19,100.55	POUND	0	
Freckled rockfish	Sebastes lentiginosus	4.99	POUND	0	
Giant grenadier	Albatrossia pectoralis	130,244.93	POUND	0	
Green sturgeon	Acipenser medirostris	1,058.07	POUND		
Greenblotched rockfish	Sebastes rosenblatti	29.53	POUND	0	
Greenling (unidentified)	Hexagrammidae	6.62	POUND	0	
Greenspotted rockfish	Sebastes chlorostictus	182.74	POUND	0	
Greenstriped rockfish	Sebastes elongatus	14,091.08	POUND	0	
Grenadiers	Macrouridae	15,439.55	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Gunnels	Pholidae	0.21	POUND	0	
Hagfish (unidentified)	Myxinidae	1.02	POUND	0	
Hair crab	Paralomis multispina	47.38	POUND	0	
Halfbanded rockfish	Sebastes semicinctus	173.52	POUND	0	
Hermit crab (unidentified)	Paguroidea	5.43	POUND	0	
Herring (unidentified)	Clupea	1.81	POUND	0	
Hornyhead turbot	Pleuronichthys verticalis	85.40	POUND	0	
Jack mackerel - Pacific Coast	Trachurus symmetricus	174.52	POUND	0	
Jellyfish (unidentified)	Scyphozoa	6,936.16	POUND	0	
Jumbo squid	Dosidicus gigas	2,651.19	POUND	0	
Kelp greenling	Hexagrammos decagrammus	122.19	POUND	0	
King-of-salmon	Trachipterus altivelis	38.46	POUND	0	
Lancetfish (unidentified)	Alepisaurus	15.96	POUND	0	
Lanternfishes	Myctophidae	6.37	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	49,075.93	POUND	0	
Longnose cat shark	Apristurus kampae	4,017.45	POUND	0	
Longnose lancetfish	Alepisaurus ferox	10.86	POUND	0	
Longnose skate - Pacific Coast	Raja rhina	300,991.06	POUND	0	
Longspine combfish	Zaniolepis latipinnis	17.08	POUND	0	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	89,756.02	POUND	0	
Mackerel (unidentified)	Scombridae	168.08	POUND	0	
Medusafish	Icichthys lockingtoni	2.26	POUND	0	
Midshipman (toadfish) (unidentified)	Porichthys	601.56	POUND	0	
Mixed species		33.60	POUND	0	
Moridae (unidentified)	Moridae	0.86	POUND	0	
Non-eulachon smelt (unidentified)	Osmeriformes	46.45	POUND	0	
Non-humboldt squid (unidentified)	Teuthida	14,469.39	POUND	0	
Ocean sunfish	Mola mola	132.78	POUND	0	
Octopus (unidentified)	Octopoda	12,558.79	POUND	0	
Olive rockfish	Sebastes serranoides	0.81	POUND	0	
Other nongroundfish		0.86	POUND	0	
Oxeye oreo	Alloctytus folletti	35.04	POUND	0	
Pacific argentine	Argentina sialis	0.35	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific chub mackerel	<i>Scomber japonicus</i>	43.13	POUND	0	
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	1,145.67	POUND	0	
Pacific electric ray	<i>Torpedo californica</i>	5,224.50	POUND	0	
Pacific flatnose	<i>Antimora microlepis</i>	1,834.52	POUND	0	
Pacific grenadier - Pacific Coast	<i>Coryphaenoides acrolepis</i>	66,590.83	POUND	0	
Pacific hagfish	<i>Eptatretus stoutii</i>	2.58	POUND	0	
Pacific hake	<i>Merluccius productus</i>	440,417.32	POUND	0	
Pacific halibut	<i>Hippoglossus stenolepis</i>	123,394.46	POUND	0	
Pacific herring	<i>Clupea pallasii</i>	276.79	POUND	0	
Pacific lamprey	<i>Entosphenus tridentatus</i>	0.91	POUND	0	
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2,712.75	POUND	0	
Pacific pomfret	<i>Brama japonica</i>	22.83	POUND	0	
Pacific pompano	<i>Peprilus simillimus</i>	46.02	POUND	0	
Pacific rock crab	<i>Cancer antennarius</i>	68.88	POUND	0	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	251,930.09	POUND	0	
Pacific sandfish	<i>Trichodon trichodon</i>	1.25	POUND	0	
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	168.37	POUND	0	
Pacific saury	<i>Cololabis saira</i>	0.41	POUND	0	
Pacific scabbardfish	<i>Lepidopus caudatus</i>	155.86	POUND	0	
Pacific sleeper shark	<i>Somniosus pacificus</i>	41,004.29	POUND	0	
Pacific staghorn sculpin	<i>Leptocottus armatus</i>	8.15	POUND	0	
Pacific tom cod	<i>Microgadus proximus</i>	302.80	POUND	0	
Pelagic thresher	<i>Alopias pelagicus</i>	2,371.67	POUND	0	
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	56,926.89	POUND	0	
Pile surfperch	<i>Rhacochilus vacca</i>	0.10	POUND	0	
Pink salmon	<i>Oncorhynchus gorbuscha</i>	5.99	POUND		
Pink seaperch	<i>Zalembeius rosaceus</i>	1.57	POUND	0	
Plainfin midshipman	<i>Porichthys notatus</i>	48.64	POUND	0	
Poachers (unidentified)	Agonidae	47.54	POUND	0	
Popeye grenadier	<i>Coryphaenoides cinereus</i>	29.05	POUND	0	
Prowfish	<i>Zaprora silenus</i>	11.22	POUND	0	
Pygmy rockfish	<i>Sebastes wilsoni</i>	5.97	POUND	0	
Quillback rockfish	<i>Sebastes maliger</i>	0.09	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Ragfish	Icosteus aenigmaticus	735.19	POUND	0	
Red rock crab	Cancer productus	25.80	POUND	0	
Redbanded rockfish	Sebastes babcocki	810.32	POUND	0	
Redstripe rockfish	Sebastes proriger	500.49	POUND	0	
Rex sole - Pacific Coast	Glyptocephalus zachirus	88,780.82	POUND	0	
Ribbonfishes (unidentified)	Trachipteridae	41.50	POUND	0	
Rock crabs	Decapoda	0.50	POUND	0	
Rock sole	Paraplagusia bilineata	503.64	POUND	0	
Ronquil (unidentified)	Bathymasteridae	0.20	POUND	0	
Rosethorn rockfish	Sebastes helvomaculatus	2,044.67	POUND	0	
Rosy rockfish	Sebastes rosaceus	1.04	POUND	0	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	213.57	POUND	0	
Rougheye/blackspotted rockfish	Sebastes aleutianus	23.52	POUND	0	
Roundfishes (unidentified)		5.61	POUND	0	
Sablefish - Pacific Coast	Anoplopoma fimbria	46,719.60	POUND	0	
Salmon (unidentified)	Oncorhynchus	3.05	POUND		
Salmon shark	Lamna ditropis	17.16	POUND	0	
Sand sole - Pacific Coast	Psettichthys melanostictus	1,256.15	POUND	0	
Sanddabs (unidentified)	Citharichthys	183.74	POUND	0	
Sandpaper skate	Bathyraja interrupta	89,298.46	POUND	0	
Scabbardfish cutlassfish (unidentified)	Trichiuridae	312.98	POUND	0	
Scaleless dragonfish (unidentified)	Stomiidae	0.45	POUND	0	
Scallop (unidentified)	Pectinidae	21.60	POUND	0	
Scarlet king crab	Lithodes couesi	266.90	POUND	0	
Sculpins (unidentified)	Cottidae	4,336.00	POUND	0	
Sea cucumbers (unidentified)	Holothuroidea	2,348.30	POUND	0	
Sea urchins	Echinoidea	5,820.73	POUND	0	
Sharks (unidentified)	Elasmobranchii	14,227.37	POUND	0	
Sharpchin rockfish	Sebastes zacentrus	9,881.84	POUND	0	
Shelf rockfishes (other)	Sebastes	78.01	POUND	0	
Shiner surfperch	Cymatogaster aggregata	0.21	POUND	0	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	17,606.27	POUND	0	
Shortraker rockfish	Sebastes borealis	24.90	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Shortspine combfish	Zaniolepis frenata	0.80	POUND	0	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	21,146.11	POUND	0	
Shoulderspot grenadier	Caelorinchus scaphopsis	0.97	POUND	0	
Shrimp (unidentified)	Decapoda	644.84	POUND	0	
Silvergray rockfish	Sebastes brevispinis	0.52	POUND	0	
Skates (unidentified)	Rajidae	2,312.21	POUND	0	
Slender codling	Halargyreus johnsonii	2.01	POUND	0	
Slender sole	Lyopsetta exilis	74,725.65	POUND	0	
Slickhead (unidentified)	Alepocephalidae	1,285.25	POUND	0	
Slope rockfishes (other)	Sebastes	252.42	POUND	0	
Smelt (unidentified)	Osmeriformes	103.97	POUND	0	
Smooth grenadier	Nezumia liolepis	18.21	POUND	0	
Snailfishes (unidentified)	Liparidae	2,783.16	POUND	0	
Snakehead eelpout	Lycenchelys crotalinus	25.58	POUND	0	
Snipe eels (unidentified)	Nemichthyidae	0.05	POUND	0	
Southern Tanner crab	Chionoecetes bairdi	2.80	POUND	0	
Specklefin midshipman	Porichthys myriaster	33.61	POUND	0	
Spiky king crab	Neolithodes diomedea	20.77	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	681,899.89	POUND	0	
Spiny king crab	Paralithodes rathbuni	3.00	POUND	0	
Spiny lithode crab	Acantholithodes hispidus	50.83	POUND	0	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	141,257.56	POUND	0	
Spotted cusk-eel	Chilara taylori	5.43	POUND	0	
Spotted ratfish	Hydrolagus colliei	200,616.56	POUND	0	
Squarespot rockfish	Sebastes hopkinsi	2.45	POUND	0	
Squids	Teuthida	3,814.13	POUND	0	
Starry flounder - Pacific Coast	Platichthys stellatus	2,333.57	POUND	0	
Starry skate	Raja stellulata	152.67	POUND	0	
Stripetail rockfish	Sebastes saxicola	27,528.88	POUND	0	
Surfperch (unidentified)	Embiotocidae	36.63	POUND	0	
Tanner crabs	Chionoecetes	54,589.22	POUND	0	
Tanneri tanner crab	Chionoecetes tanneri	289,939.42	POUND	0	
Thornyheads	Sebastolobus	491.09	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Threadfin sculpin	Icelinus filamentosus	194.35	POUND	0	
Threadfin slickhead	Talismania bifurcata	632.58	POUND	0	
Tope	Galeorhinus galeus	2,319.64	POUND	0	
Tubeshoulders (unidentified)	Platyroctidae	41.69	POUND	0	
Twoline eelpout	Bothrocara brunneum	10,068.59	POUND	0	
Vermilion rockfish	Sebastes miniatus	0.04	POUND	0	
Viperfishes (unidentified)	Chauliodontinae	11.38	POUND	0	
Walleye pollock	Gadus chalcogrammus	234.88	POUND	0	
White skate	Bathyraja spinosissima	134.31	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	227.70	POUND	0	
Wolf-eel	Anarrhichthys ocellatus	136.82	POUND	0	
Wrymouth (unidentified)	Cryptacanthodes	98.98	POUND	0	
Yellow rock crab	Cancer anthonyi	241.44	POUND	0	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	1.05	POUND	0	
Yellowmouth rockfish	Sebastes reedi	16.14	POUND	0	
Yellowtail rockfish	Sebastes flavidus	206.61	POUND	0	
TOTAL FISHERY BYCATCH		5,771,980.74	POUND		
TOTAL FISHERY LANDINGS		35,615,422.36	POUND		
TOTAL CATCH (Bycatch + Landings)		41,387,403.10	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.14			
West Coast Mid-Water Trawl for Hake, At-Sea Processing ¹					
Albacore	Thunnus alalunga	124.32	POUND	0	
American shad	Alosa sapidissima	8,981.29	POUND	0	
Argentine (unidentified)	Argentina	4.02	POUND	0	
Arrowtooth flounder - Pacific Coast	Atheresthes stomias	1,187.10	POUND	0	
Aurora rockfish	Sebastes aurora	6.31	POUND	0	
Bank rockfish	Sebastes rufus	27.91	POUND	0	
Barracudinas (unidentified)	Paralepididae	2.05	POUND	0	
Big skate	Raja binoculata	712.27	POUND	0	
Bigscale (unidentified)	Melamphaidae	0.24	POUND	0	
Blackgill rockfish	Sebastes melanostomus	10.44	POUND	0	
Blacksmelt (unidentified)	Bathylagus	0.42	POUND	0	
Blacktail snailfish (unidentified)	Careproctus	0.68	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Blue shark	Prionace glauca	1,989.21	POUND	0	
Bocaccio	Sebastes paucispinis	164.19	POUND	0	
Brown cat shark	Apristurus brunneus	33,377.24	POUND	0	
Canary rockfish	Sebastes pinniger	541.98	POUND	0	
Chilipepper	Sebastes goodei	3.16	POUND	0	
Chinook salmon	Oncorhynchus tshawytscha	36,391.00	POUND		
Chum salmon	Oncorhynchus keta	41.84	POUND		
Coho salmon	Oncorhynchus kisutch	41.84	POUND		
Crab (unidentified)	Brachyura	0.09	POUND	0	
Cutlassfish (unidentified)	Trichiuridae	71.58	POUND	0	
Daggertooth	Anotopterus pharao	1.19	POUND	0	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	6,866.54	POUND	0	
Deepsea smelt (unidentified)	Bathylagidae	158.41	POUND	0	
Dover sole - Pacific Coast	Microstomus pacificus	41.79	POUND	0	
Dragonfishes (unidentified)	Melanostomiinae	122.87	POUND	0	
Duckbill barracudina	Magnisudis atlantica	297.35	POUND	0	
Eelpouts	Zoarcidae	4.17	POUND	0	
Eulachon	Thaleichthys pacificus	25.26	POUND		
Fangtooth	Anoplogaster cornuta	0.07	POUND	0	
Fishes (unidentified)		30.61	POUND	0	
Flathead sole	Hippoglossoides elassodon	0.18	POUND	0	
Grenadiers	Macrouridae	864.14	POUND	0	
Harlequin rockfish	Sebastes variegatus	1.39	POUND	0	
Hatchetfish (unidentified)	Sternoptychidae	0.09	POUND	0	
Jack mackerel - Pacific Coast	Trachurus symmetricus	51,916.92	POUND	0	
Jellyfish (unidentified)	Scyphozoa	2,551.99	POUND	0	
Jumbo squid	Dosidicus gigas	344.23	POUND	0	
King-of-salmon	Trachipterus altivelis	11,206.05	POUND	0	
Lampreys (unidentified)	Petromyzontidae	34.54	POUND	0	
Lancetfishes	Alepisaurus	135.21	POUND	0	
Lanternfishes	Myctophidae	317.24	POUND	0	
Lingcod - Pacific Coast	Ophiodon elongatus	766.16	POUND	0	
Longnose skate - Pacific Coast	Raja rhina	1,080.79	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Longspine thornyhead - Pacific Coast	Sebastes altivelis	1.72	POUND	0	
Loosejaw (unidentified)	Stomiidae	22.66	POUND	0	
Manefishes	Caristiidae	7.71	POUND	0	
Medusafish	Icichthys lockingtoni	3,054.89	POUND	0	
Mixed species		256.99	POUND	0	
Mollusk (unidentified)	Mollusca	0.04	POUND	0	
Ocean sunfish	Mola mola	726.21	POUND	0	
Octopus (unidentified)	Octopoda	168.79	POUND	0	
Oreos	Oreosomatidae	1.02	POUND	0	
Pacific chub mackerel	Scomber japonicus	34,126.96	POUND	0	
Pacific hake	Merluccius productus	748,628.78	POUND	0	
Pacific halibut	Hippoglossus stenolepis	1,635.93	POUND	0	
Pacific herring	Clupea pallasii	85.79	POUND	0	
Pacific lamprey	Entosphenus tridentatus	9.39	POUND	0	
Pacific ocean perch - Pacific Coast	Sebastes alutus	4,284.75	POUND	0	
Pacific pomfret	Brama japonica	874.02	POUND	0	
Pacific sardine - Pacific Coast	Sardinops sagax	63.92	POUND	0	
Pacific saury	Cololabis saira	1.57	POUND	0	
Pacific sleeper shark	Somniosus pacificus	5,747.63	POUND	0	
Paperbone (unidentified)	Scopelosaurus	0.99	POUND	0	
Pearleyes (unidentified)	Scopelarchidae	29.83	POUND	0	
Prickleback (unidentified)	Stichaeidae	0.13	POUND	0	
Ragfish	Icosteus aenigmaticus	29,445.51	POUND	0	
Redbanded rockfish	Sebastes babcocki	4.55	POUND	0	
Redstripe rockfish	Sebastes proriger	76.28	POUND	0	
Rex sole - Pacific Coast	Glyptocephalus zachirus	1,189.97	POUND	0	
Ribbonfishes (unidentified)	Trachipteridae	78.19	POUND	0	
Rough pomfret	Taractes asper	99.11	POUND	0	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	3,943.56	POUND	0	
Roundfishes (unidentified)		35.15	POUND	0	
Sablefish - Pacific Coast	Anoplopoma fimbria	1,057.08	POUND	0	
Salmon (unidentified)	Oncorhynchus	1.02	POUND		
Salmon shark	Lamna ditropis	17,514.69	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sandpaper skate	Bathyraja interrupta	3.16	POUND	0	
Sea cucumbers (unidentified)	Holothuroidea	1.15	POUND	0	
Sea devil (unidentified)	Ceratiidae	8.72	POUND	0	
Sharks (unidentified)	Elasmobranchii	0.84	POUND	0	
Sharpchin rockfish	Sebastes zacentrus	1.90	POUND	0	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	7.76	POUND	0	
Shorthead rockfish	Sebastes borealis	18.13	POUND	0	
Shortspine thornyhead - Pacific Coast	Sebastes alascanus	6,366.24	POUND	0	
Shrimp (unidentified)	Decapoda	3.27	POUND	0	
Silvergray rockfish	Sebastes brevispinis	29.26	POUND	0	
Slender barracudina	Lestidiops ringens	0.73	POUND	0	
Slender sole	Lyopsetta exilis	1.72	POUND	0	
Smelt (unidentified)	Osmeriformes	0.64	POUND	0	
Snailfishes (unidentified)	Liparidae	1.57	POUND	0	
Snipe eels (unidentified)	Nemichthyidae	0.13	POUND	0	
Spiny dogfish - Pacific Coast	Squalus acanthias	80,414.55	POUND	0	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	8,818.94	POUND	0	
Spookfish (unidentified)	Opisthoproctidae	670.80	POUND	0	
Spotted ratfish	Hydrolagus colliei	3.49	POUND	0	
Squids	Teuthida	180,014.49	POUND	0	
Stripetail rockfish	Sebastes saxicola	1.70	POUND	0	
Thresher shark	Alopias vulpinus	2,059.11	POUND	0	
Tope	Galeorhinus galeus	984.41	POUND	0	
Tubeshoulders (unidentified)	Platyroctidae	44.89	POUND	0	
Viperfishes (unidentified)	Chauliodontinae	31.88	POUND	0	
Walleye pollock	Gadus chalcogrammus	3.47	POUND	0	
White barracudina	Arctozenus risso	3.36	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	57,785.98	POUND	0	
Yellowmouth rockfish	Sebastes reedi	4.31	POUND	0	
Yellowtail rockfish	Sebastes flavidus	52,171.02	POUND	0	
TOTAL FISHERY BYCATCH		1,403,078.82	POUND		
TOTAL FISHERY LANDINGS		364,491,260.80	POUND		
TOTAL CATCH (Bycatch + Landings)		365,894,339.62	POUND		

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		<0.01			
West Coast Mid-Water Trawl for Hake, Shoreside					
American shad	<i>Alosa sapidissima</i>	3.76	POUND	0	
Arrowtooth flounder - Pacific Coast	<i>Atheresthes stomias</i>	100.00	POUND	0	
Blue shark	<i>Prionace glauca</i>	207.20	POUND	0	
Brown cat shark	<i>Apristurus brunneus</i>	241.91	POUND	0	
Canary rockfish	<i>Sebastes pinniger</i>	75.01	POUND	0	
Chilipepper	<i>Sebastes goodei</i>	0.30	POUND	0	
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	39,627.16	POUND		
Chum salmon	<i>Oncorhynchus keta</i>	62.63	POUND		
Coho salmon	<i>Oncorhynchus kisutch</i>	910.13	POUND		
Herring (unidentified)	<i>Clupea</i>	316.74	POUND	0	
Jack mackerel - Pacific Coast	<i>Trachurus symmetricus</i>	1,846.18	POUND	0	
Jellyfish (unidentified)	Scyphozoa	71.06	POUND	0	
Jumbo squid	<i>Dosidicus gigas</i>	30.46	POUND	0	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	124.01	POUND	0	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	41.32	POUND	0	
Non-eulachon smelt (unidentified)	<i>Osmeriformes</i>	3.05	POUND	0	
Non-humboldt squid (unidentified)	Teuthida	1,241.18	POUND	0	
Ocean sunfish	<i>Mola mola</i>	419.94	POUND	0	
Pacific chub mackerel	<i>Scomber japonicus</i>	205.68	POUND	0	
Pacific hake	<i>Merluccius productus</i>	1,088,653.84	POUND	0	
Pacific halibut	<i>Hippoglossus stenolepis</i>	3,007.51	POUND	0	
Pelagic thresher	<i>Alopias pelagicus</i>	913.67	POUND	0	
Redstripe rockfish	<i>Sebastes proriger</i>	39.35	POUND	0	
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	1.15	POUND	0	
Salmon (unidentified)	<i>Oncorhynchus</i>	198.03	POUND		
Sharks (unidentified)	<i>Elasmobranchii</i>	6,466.79	POUND	0	
Sharpchin rockfish	<i>Sebastes zacentrus</i>	20.20	POUND	0	
Sockeye salmon	<i>Oncorhynchus nerka</i>	3.13	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	272.88	POUND	0	
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	29.40	POUND	0	
Squids	Teuthida	13,036.61	POUND	0	

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
Thresher shark	Alopias vulpinus	1,878.11	POUND	0	
Tope	Galeorhinus galeus	263.60	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	9,236.22	POUND	0	
TOTAL FISHERY BYCATCH		1,169,548.21	POUND		
TOTAL FISHERY LANDINGS		218,602,263.10	POUND		
TOTAL CATCH (Bycatch + Landings)		219,771,811.31	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		<0.01			
West Coast Mid-Water Trawl for Rockfish, Shoreside					
Chinook salmon	Oncorhynchus tshawytscha	2,866.00	POUND		
Coho salmon	Oncorhynchus kisutch	78.00	POUND		
Non-humboldt squid (unidentified)	Teuthida	7.85	POUND	0	
Ocean sunfish	Mola mola	400.00	POUND	0	
Pelagic thresher	Alopias pelagicus	600.00	POUND	0	
Thresher shark	Alopias vulpinus	600.00	POUND	0	
Widow rockfish - Pacific Coast	Sebastes entomelas	30.00	POUND	0	
Yellowtail rockfish	Sebastes flavidus	5.00	POUND	0	
TOTAL FISHERY BYCATCH		4,586.85	POUND		
TOTAL FISHERY LANDINGS		1,937,904.03	POUND		
TOTAL CATCH (Bycatch + Landings)		1,942,490.88	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		<0.01			
West Coast Salmon Troll, Non-Tribal Ocean³					
Chinook salmon	Oncorhynchus tshawytscha	220,500.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	70,000.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH		290,500.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS		439,500.00	INDIVIDUAL		
TOTAL CATCH (Bycatch + Landings)		730,000.00	INDIVIDUAL		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)		0.40			
West Coast Salmon Troll, Tribal Ocean³					
Chinook salmon	Oncorhynchus tshawytscha	47,900.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	8,000.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH		55,900.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS		117,200.00	INDIVIDUAL		
TOTAL CATCH (Bycatch + Landings)		173,100.00	INDIVIDUAL		

COMMON NAME	SCIENTIFIC NAME	BYCATCH	UNIT	CV	FOOTNOTE(S)
FISHERY BYCATCH RATIO (Bycatch/Total Catch)				0.32	

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.