

**TABLE 6.5.2a WEST COAST REGION FISH BYCATCH BY FISHERY (2012)** Fishery bycatch ratio = bycatch / (bycatch + landings).<sup>1,3</sup>

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>California Halibut Trawl</b>						
American shad	<i>Alosa sapidissima</i>	2012	5.50	POUND	0.18	
Anchovy (unidentified)	Engraulidae	2012	0.79	POUND	0.10	
Armed box crab	<i>Platymera gaudichaudii</i>	2012	15.72	POUND	0.10	
Bat ray	<i>Myliobatis californica</i>	2012	3,977.59	POUND	0.24	
Big skate	<i>Raja binoculata</i>	2012	44,148.46	POUND	0.16	
Brown smoothhound shark	<i>Mustelus henlei</i>	2012	3,757.68	POUND	0.31	
California halibut	<i>Paralichthys californicus</i>	2012	745.06	POUND	0.32	
California lizardfish	<i>Synodus lucioceps</i>	2012	2.36	POUND	0.10	
California skate	<i>Raja inornata</i>	2012	1,002.06	POUND	0.38	
Curlfin sole	<i>Pleuronichthys decurrens</i>	2012	1,257.49	POUND	0.19	
Decorator/spider crab (unidentified)	Majoidea	2012	257.00	POUND	0.23	
Dungeness crab	<i>Cancer magister</i>	2012	329,214.77	POUND	0.15	
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2012	1,903.52	POUND	0.28	
Fantail sole	<i>Xystreureys liolepis</i>	2012	288.44	POUND	0.29	
Graceful crab	<i>Cancer gracilis</i>	2012	1,079.08	POUND	0.35	
Green sturgeon	<i>Acipenser medirostris</i>	2012	968.82	POUND		a
Hornyhead turbot	<i>Pleuronichthys verticalis</i>	2012	339.52	POUND	0.27	
Jellyfish (unidentified)	Scyphozoa	2012	250,805.63	POUND	0.55	
Longfin smelt	<i>Spirinchus thaleichthys</i>	2012	2.36	POUND	0.28	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2012	99.03	POUND	0.40	
Longspine combfish	<i>Zaniolepis latipinnis</i>	2012	89.60	POUND	0.65	
Non-eulachon smelt (unidentified)	<i>Osmeriformes</i>	2012	3.93	POUND	0.10	
Pacific angel shark	<i>Squatina californica</i>	2012	422.83	POUND	0.70	
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2012	3.14	POUND	0.10	
Pacific electric ray	<i>Torpedo californica</i>	2012	647.61	POUND	0.49	
Pacific pompano	<i>Peprilus simillimus</i>	2012	3.93	POUND	0.10	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	2012	1,642.59	POUND	0.40	
Pacific staghorn sculpin	<i>Leptocottus armatus</i>	2012	335.12	POUND	0.29	
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2012	328.52	POUND	0.23	
Red rock crab	<i>Cancer productus</i>	2012	278.22	POUND	0.21	
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	2012	14.15	POUND	0.10	
Rock crabs	Decapoda	2012	15.72	POUND	0.10	
Rock sole	<i>Paraplagusia bilineata</i>	2012	6.29	POUND	0.72	
Sand sole - Pacific Coast	<i>Psettichthys melanostictus</i>	2012	50.30	POUND	0.53	
Sandpaper skate	<i>Bathyraja interrupta</i>	2012	2.36	POUND	0.10	
Sculpins (unidentified)	Cottidae	2012	40.08	POUND	0.33	
Sea cucumbers (unidentified)	Holothuroidea	2012	25.94	POUND	0.47	
Sea urchins	Echinoidea	2012	1.57	POUND	0.10	

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Shovelnose guitarfish	Rhinobatos productus	2012	136.75	POUND	0.10	
Smelt (unidentified)	Osmeriformes	2012	0.79	POUND	0.10	
Snailfishes (unidentified)	Liparidae	2012	8.65	POUND	0.16	
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	3,994.88	POUND	0.19	
Spotfin surfperch	Hyperprosopon anale	2012	3.93	POUND	0.22	
Squids	Teuthida	2012	101.38	POUND	0.31	
Starry flounder - Pacific Coast	Platichthys stellatus	2012	1,840.65	POUND	0.30	
Thornback	Platyrhinoidis triseriata	2012	587.87	POUND	0.36	
White croaker	Genyonemus lineatus	2012	35.37	POUND	0.29	
Whitebait smelt	Allosmerus elongatus	2012	0.79	POUND	0.10	
Yellow rock crab	Cancer anthonyi	2012	27.51	POUND	0.10	
<b>TOTAL FISHERY BYCATCH</b>			650,521.35	POUND		
<b>TOTAL FISHERY LANDINGS</b>			158,849.30	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			809,370.65	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.80			
<b>California Halibut/White Seabass and Other Species Set Gillnet (&gt;3.5 in Mesh)</b>						
Armed box crab	Platymera gaudichaudii	2012	1,041.00	INDIVIDUAL	0.70	
Banded guitarfish	Zapteryx exasperata	2012	16.00	INDIVIDUAL	1.02	
Bank rockfish - California	Sebastes rufus	2012	16.00	INDIVIDUAL	0.98	
Barred sand bass	Paralabrax nebulifer	2012	109.00	INDIVIDUAL	0.50	
Bat ray	Myliobatis californica	2012	1,289.00	INDIVIDUAL	0.43	
Bay pipefish	Syngnathus leptorhynchus	2012	16.00	INDIVIDUAL	0.96	
Big skate	Raja binoculata	2012	47.00	INDIVIDUAL	0.73	
Bigmouth sole	Hippoglossina stomata	2012	16.00	INDIVIDUAL	0.99	
Blue shark - North Pacific	Prionace glauca	2012	47.00	INDIVIDUAL	0.97	
Brown box crab	Lopholithodes foraminatus	2012	78.00	INDIVIDUAL	0.60	
Brown rockfish - Pacific Coast	Sebastes auriculatus	2012	16.00	INDIVIDUAL	1.01	
Brown smoothhound shark	Mustelus henlei	2012	155.00	INDIVIDUAL	0.50	
Bullet mackerel	Auxis rochei	2012	78.00	INDIVIDUAL	1.03	
Cabezon - Southern Pacific Coast	Scorpaenichthys marmoratus	2012	280.00	INDIVIDUAL	0.47	
California halibut	Paralichthys californicus	2012	451.00	INDIVIDUAL	0.31	
California lizardfish	Synodus lucioceps	2012	31.00	INDIVIDUAL	0.71	
California scorpionfish - Southern California	Scorpaena guttata	2012	870.00	INDIVIDUAL	0.85	
California sheephead	Semicossyphus pulcher	2012	62.00	INDIVIDUAL	0.76	
California skate	Raja inornata	2012	590.00	INDIVIDUAL	0.36	
California spiny lobster	Panulirus interruptus	2012	264.00	INDIVIDUAL	0.39	
Canary rockfish - Pacific Coast	Sebastes pinniger	2012	47.00	INDIVIDUAL	1.02	
Crab (unidentified)	Brachyura	2012	140.00	INDIVIDUAL	0.99	
Diamond turbot	Pleuronichthys guttulatus	2012	109.00	INDIVIDUAL	0.49	
Dungeness crab	Cancer magister	2012	93.00	INDIVIDUAL	1.04	
Echinoderm (unidentified)	Echinodermata	2012	16.00	INDIVIDUAL	0.97	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
English sole - Pacific Coast	Parophrys vetulus	2012		31.00	INDIVIDUAL	0.96
Fishes (unidentified)		2012		16.00	INDIVIDUAL	0.98
Flatfishes (unidentified)	Pleuronectiformes	2012		31.00	INDIVIDUAL	0.71
Giant sea bass	Stereolepis gigas	2012		31.00	INDIVIDUAL	0.67
Jack mackerel - Pacific Coast	Trachurus symmetricus	2012		31.00	INDIVIDUAL	0.93
Leopard shark	Triakis semifasciata	2012		404.00	INDIVIDUAL	0.30
Lingcod - Pacific Coast	Ophiodon elongatus	2012		78.00	INDIVIDUAL	0.52
Longnose skate - Pacific Coast	Raja rhina	2012		1,647.00	INDIVIDUAL	0.65
Marble crab	Randallia ornata	2012		47.00	INDIVIDUAL	1.00
Ocean sunfish	Mola mola	2012		31.00	INDIVIDUAL	0.72
Octopus (unidentified)	Octopoda	2012		47.00	INDIVIDUAL	0.75
Pacific angel shark	Squatina californica	2012		466.00	INDIVIDUAL	0.25
Pacific barracuda	Sphyræna argentea	2012		186.00	INDIVIDUAL	0.51
Pacific chub mackerel - Pacific Coast	Scomber japonicus	2012		249.00	INDIVIDUAL	0.74
Pacific electric ray	Torpedo californica	2012		16.00	INDIVIDUAL	1.00
Pacific pompano	Peprilus simillimus	2012		47.00	INDIVIDUAL	1.00
Pacific sanddab - Pacific Coast	Citharichthys sordidus	2012		31.00	INDIVIDUAL	0.71
Petræle sole - Pacific Coast	Eopsetta jordani	2012		16.00	INDIVIDUAL	1.01
Rock crabs	Decapoda	2012		7,891.00	INDIVIDUAL	0.25
Round stingray	Urobatis halleri	2012		62.00	INDIVIDUAL	0.94
Sand crabs	Decapoda	2012		31.00	INDIVIDUAL	0.71
Sarcastic fringehead	Neoclinus blanchardi	2012		16.00	INDIVIDUAL	0.95
Sculpins (unidentified)	Cottidae	2012		186.00	INDIVIDUAL	0.39
Sea cucumbers	Holothuriidae	2012		109.00	INDIVIDUAL	0.65
Sea stars	Asteroidea	2012		777.00	INDIVIDUAL	0.31
Sea urchins	Echinoidea	2012		16.00	INDIVIDUAL	0.99
Shovelnose guitarfish	Rhinobatos productus	2012		31.00	INDIVIDUAL	0.98
Slender sole	Lyopsetta exilis	2012		31.00	INDIVIDUAL	0.67
Soupfin shark	Galeorhinus galeus	2012		311.00	INDIVIDUAL	0.31
Speckled sanddab	Citharichthys stigmatæus	2012		16.00	INDIVIDUAL	1.00
Spider crabs	Decapoda	2012		2,159.00	INDIVIDUAL	0.24
Spiny dogfish - Pacific Coast	Squalus acanthias	2012		497.00	INDIVIDUAL	0.39
Spotted ratfish	Hydrolagus colliæi	2012		264.00	INDIVIDUAL	0.42
Starry flounder - Pacific Coast	Platichthys stellatus	2012		16.00	INDIVIDUAL	1.03
Starry skate	Raja stellulata	2012		140.00	INDIVIDUAL	0.50
Swell shark	Cephaloscyllium ventriosum	2012		1,880.00	INDIVIDUAL	0.52
Thornback	Platyrrhinoidis triseriata	2012		683.00	INDIVIDUAL	0.38
Thresher shark	Alopias vulpinus	2012		31.00	INDIVIDUAL	0.70
White croaker	Genyonemus lineatus	2012		16.00	INDIVIDUAL	1.02
White seabass	Atractoscion nobilis	2012		23.00	INDIVIDUAL	0.36
<b>TOTAL FISHERY BYCATCH</b>				24,468.00	INDIVIDUAL	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>TOTAL FISHERY LANDINGS</b>			317,782.00	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			**			
<b>California/Oregon Drift Gillnet (Mesh Size &gt;14 in) for Swordfish and Thresher Shark</b>						
Albacore - North Pacific	Thunnus alalunga	2012	11.00	INDIVIDUAL	0.97	
Blue shark - North Pacific	Prionace glauca	2012	487.00	INDIVIDUAL	0.33	
Bluefin tuna	Thunnus thynnus	2012	11.00	INDIVIDUAL	0.99	
Ocean sunfish	Mola mola	2012	2,508.00	INDIVIDUAL	0.28	
Other species		2012	11.00	INDIVIDUAL	0.95	
Pacific electric ray	Torpedo californica	2012	5.00	INDIVIDUAL	0.94	
Pelagic stingray	Pteroplatytrygon violacea	2012	11.00	INDIVIDUAL	0.63	
Salmon shark	Lamna ditropis	2012	96.00	INDIVIDUAL	0.68	
Shortfin mako	Isurus oxyrinchus	2012	27.00	INDIVIDUAL	0.53	
Skipjack tuna	Katsuwonus pelamis	2012	59.00	INDIVIDUAL	0.74	
Striped marlin	Kajikia audax	2012	5.00	INDIVIDUAL	0.88	
Swordfish - North Pacific	Xiphias gladius	2012	5.00	INDIVIDUAL	0.94	
Thresher shark	Alopias vulpinus	2012	112.00	INDIVIDUAL	0.91	
<b>TOTAL FISHERY BYCATCH</b>			3,348.00	INDIVIDUAL		
<b>TOTAL FISHERY LANDINGS</b>			305,839.00	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			**			
<b>California/Oregon Nearshore Rockfish</b>						
Barred sand bass	Paralabrax nebulifer	2012	2,167.75	POUND	0.34	
Bat ray	Myliobatis californica	2012	340.82	POUND	0.11	
Big skate	Raja binoculata	2012	161.41	POUND	0.05	
Black rockfish	Sebastes melanops	2012	10,564.22	POUND	0.17	
Black surfperch	Embiotoca jacksoni	2012	7,134.42	POUND	0.22	
Black-and-yellow rockfish	Sebastes chrysomelas	2012	1,491.67	POUND	0.25	
Blacksmith	Chromis punctipinnis	2012	2,354.70	POUND	0.13	
Blue rockfish	Sebastes mystinus	2012	12,167.14	POUND	0.16	
Brown irish lord sculpin	Hemilepidotus spinosus	2012	56.40	POUND	0.17	
Brown rockfish - Pacific Coast	Sebastes auriculatus	2012	3,745.25	POUND	0.22	
Brown smoothhound shark	Mustelus henlei	2012	75.20	POUND	0.17	
Buffalo sculpin	Enophrys bison	2012	508.84	POUND	0.26	
Cabezon	Scorpaenichthys marmoratus	2012	14,028.57	POUND	0.19	
Calico rockfish	Sebastes dallii	2012	14.91	POUND	0.09	
California halibut	Paralichthys californicus	2012	82.67	POUND	0.72	
California moray	Gymnothorax mordax	2012	1,058.24	POUND	0.13	
California scorpionfish	Scorpaena guttata	2012	33.07	POUND	0.13	
California sheephead	Semicossyphus pulcher	2012	70,076.53	POUND	0.25	
Canary rockfish	Sebastes pinniger	2012	22,937.15	POUND	0.14	
China rockfish	Sebastes nebulosus	2012	7,359.58	POUND	0.15	
Chinook salmon	Oncorhynchus tshawytscha	2012	639.33	POUND		

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Chiton (unidentified)	Polyplacophora	2012	289.32	POUND	0.15	
Coho salmon	Oncorhynchus kisutch	2012	132.28	POUND		
Copper rockfish	Sebastes caurinus	2012	904.77	POUND	0.36	
Croaker (unidentified)	Sciaenidae	2012	44.64	POUND	0.13	
Decorator/spider crab (unidentified)	Majoidea	2012	175.33	POUND	0.31	
Diamond turbot	Pleuronichthys guttulatus	2012	28.11	POUND	0.13	
Dungeness crab	Cancer magister	2012	126.59	POUND	0.25	
Finescale triggerfish	Balistes polylepis	2012	49.60	POUND	0.13	
Garibaldi	Hypsypops rubicundus	2012	2,205.73	POUND	0.22	
Giant kelpfish	Heterostichus rostratus	2012	77.18	POUND	0.10	
Gopher rockfish	Sebastes carnatus	2012	4,971.52	POUND	0.17	
Grass rockfish	Sebastes rastrelliger	2012	26.79	POUND	0.97	
Greenling (unidentified)	Hexagrammidae	2012	4.04	POUND	0.05	
Hagfish (unidentified)	Myxinidae	2012	55.02	POUND	0.10	
Halfmoon	Medialuna californiensis	2012	122.36	POUND	0.27	
Invertebrates (unidentified)		2012	872.64	POUND	0.21	
Jellyfish (unidentified)	Scyphozoa	2012	24.80	POUND	0.13	
Kelp bass	Paralabrax clathratus	2012	31,239.50	POUND	0.33	
Kelp greenling	Hexagrammos decagrammus	2012	12,263.02	POUND	0.12	
Kelp rockfish	Sebastes atrovirens	2012	397.68	POUND	0.34	
Leopard shark	Triakis semifasciata	2012	1,769.24	POUND	0.13	
Lingcod - Pacific Coast	Ophiodon elongatus	2012	94,749.16	POUND	0.08	
Monkeyface prickleback	Cebidichthys violaceus	2012	62.17	POUND	0.13	
Nudibranch (unidentified)	Nudibranchia	2012	18.37	POUND	0.08	
Ocean whitefish	Caulolatilus princeps	2012	12.53	POUND	0.91	
Octopus (unidentified)	Octopoda	2012	621.97	POUND	0.33	
Olive rockfish	Sebastes serranoides	2012	1,483.57	POUND	0.29	
Opaleye	Girella nigricans	2012	261.35	POUND	0.49	
Other identified fish		2012	330.70	POUND	0.88	
Pacific halibut	Hippoglossus stenolepis	2012	5,011.59	POUND	0.28	
Pacific rock crab	Cancer antennarius	2012	1,320.81	POUND	0.25	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	2012	32.48	POUND	0.10	
Pacific staghorn sculpin	Leptocottus armatus	2012	6.27	POUND	0.17	
Petrale sole - Pacific Coast	Eopsetta jordani	2012	37.94	POUND	0.30	
Pile surfperch	Rhacochilus vacca	2012	13.79	POUND	0.17	
Puget Sound king crab	Lithodidae	2012	24.21	POUND	0.05	
Quillback rockfish	Sebastes maliger	2012	813.66	POUND	0.36	
Rainbow surfperch	Hypsurus caryi	2012	74.41	POUND	0.57	
Red irish lord sculpin	Hemilepidotus hemilepidotus	2012	700.20	POUND	0.19	
Red rock crab	Cancer productus	2012	284.18	POUND	0.20	
Rock greenling	Hexagrammos lagocephalus	2012	66.14	POUND	0.62	

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Rock sole	Paraplagusia bilineata	2012	9.98	POUND	0.97	
Rosy rockfish	Sebastes rosaceus	2012	584.10	POUND	0.56	
Round stingray	Urobatis halleri	2012	49.60	POUND	0.13	
Rubberlip surfperch	Rhacochilus toxotes	2012	268.39	POUND	0.28	
Sand sole - Pacific Coast	Psettichthys melanostictus	2012	111.47	POUND	0.48	
Sanddabs (unidentified)	Citharichthys	2012	43.87	POUND	0.88	
Sargo	Anisotremus davidsonii	2012	29.76	POUND	0.18	
Sculpins (unidentified)	Cottidae	2012	1,180.80	POUND	0.16	
Sea anemones (unidentified)	Actiniaria	2012	51.79	POUND	0.19	
Sea cucumbers (unidentified)	Holothuroidea	2012	519.52	POUND	0.18	
Sea snail (unidentified)		2012	71.15	POUND	0.51	
Sea stars	Asteroidea	2012	49,001.24	POUND	0.14	
Sheep crab	Loxorhynchus grandis	2012	39.68	POUND	0.72	
Skates (unidentified)	Rajidae	2012	102.52	POUND	0.13	
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	350.93	POUND	0.73	
Spiny lobster (unidentified)	Palinuridae	2012	132.28	POUND	0.24	
Sponge (unidentified)	Porifera	2012	2.42	POUND	0.05	
Spotted ratfish	Hydrolagus collicie	2012	12.11	POUND	0.05	
Starry rockfish	Sebastes constellatus	2012	49.92	POUND	0.99	
Striped surfperch	Embiotoca lateralis	2012	95.17	POUND	0.41	
Surfperch (unidentified)	Embiotocidae	2012	579.79	POUND	0.17	
Swell shark	Cephaloscyllium ventriosum	2012	109.13	POUND	0.13	
Tiger rockfish	Sebastes nigrocinctus	2012	14.12	POUND	0.98	
Treefish	Sebastes serriceps	2012	964.75	POUND	0.31	
Vermilion rockfish	Sebastes miniatus	2012	251.71	POUND	0.46	
Widow rockfish - Pacific Coast	Sebastes entomelas	2012	42.77	POUND	0.55	
Wolf-eel	Anarrhichthys ocellatus	2012	1,354.25	POUND	0.16	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2012	9,263.37	POUND	0.23	
Yellowtail rockfish	Sebastes flavidus	2012	2,430.09	POUND	0.31	
<b>TOTAL FISHERY BYCATCH</b>			386,420.21	POUND		
<b>TOTAL FISHERY LANDINGS</b>			1,096,952.05	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			1,483,372.26	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.26			
<b>Washington/Oregon/California Pink Shrimp</b>						
American shad	Alosa sapidissima	2012	81.83	POUND	0.25	
Amiphpod (unidentified)	Amphipoda	2012	0.07	POUND	0.02	
Anchovy (unidentified)	Engraulidae	2012	334.41	POUND	0.36	
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2012	14,182.03	POUND	0.11	
Aurora rockfish	Sebastes aurora	2012	289.10	POUND	0.24	
Barnacles (unidentified)	Cirripedia	2012	1.41	POUND	0.05	
Big skate	Raja binoculata	2012	190.25	POUND	0.55	

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Bigfin eelpout	Lycodes corteziianus	2012	230.37	POUND	0.19	
Bivalves (unidentified)	Bivalvia	2012	0.34	POUND	0.03	
Blackedge poacher	Xeneretmus latifrons	2012	28.84	POUND	0.27	
Blackgill rockfish	Sebastes melanostomus	2012	0.74	POUND	0.02	
Bluebarred prickleback	Plectobranchnus evides	2012	6.78	POUND	0.28	
Bocaccio	Sebastes paucispinis	2012	37.72	POUND	0.02	
Brittle/basket star (unidentified)	Ophiuroidea	2012	83.50	POUND	0.62	
Brown box crab	Lopholithodes foraminatus	2012	39.34	POUND	0.05	
California skate	Raja inornata	2012	4.29	POUND	0.47	
Canary rockfish	Sebastes pinniger	2012	28.10	POUND	0.02	
Cancer crab (unidentified)	Cancer	2012	4.36	POUND	0.02	
Chilipepper	Sebastes goodei	2012	2,223.19	POUND	0.75	
Chinook salmon	Oncorhynchus tshawytscha	2012	2.20	POUND		
Clam (unidentified)	Bivalvia	2012	0.54	POUND	0.03	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2012	10,946.16	POUND	0.06	
Decorator/spider crab (unidentified)	Majoidea	2012	5.96	POUND	0.27	
Dover sole - Pacific Coast	Microstomus pacificus	2012	3,353.74	POUND	0.11	
Dungeness crab	Cancer magister	2012	104.57	POUND	0.41	
Dwarf wrymouth	Cryptacanthodes aleutensis	2012	28.92	POUND	0.14	
Eelpouts	Zoarcidae	2012	40,622.63	POUND	0.08	
English sole - Pacific Coast	Parophrys vetulus	2012	136.35	POUND	0.21	
Eulachon	Thaleichthys pacificus	2012	1,304,297.11	POUND		
Flatfishes (unidentified)	Pleuronectiformes	2012	11,069.05	POUND	0.17	
Flathead sole	Hippoglossoides elassodon	2012	4,442.76	POUND	0.15	
Greenstriped rockfish	Sebastes elongatus	2012	1,209.24	POUND	0.22	
Gunnels	Pholidae	2012	3.69	POUND	0.27	
Hagfish (unidentified)	Myxinidae	2012	7,325.88	POUND	0.08	
Halfbanded rockfish	Sebastes semicinctus	2012	3.33	POUND	0.39	
Harlequin rockfish	Sebastes variegatus	2012	0.74	POUND	0.02	
Hatchetfish (unidentified)	Sternoptychidae	2012	17.78	POUND	0.62	
Hermit crab (unidentified)	Paguroidea	2012	0.37	POUND	0.02	
Invertebrates (unidentified)		2012	2,133.65	POUND	0.22	
Irregular echinoids	Echinoidea	2012	880.23	POUND	0.17	
Isopod (unidentified)	Isopoda	2012	67.89	POUND	0.10	
Jellyfish (unidentified)	Scyphozoa	2012	4,485.15	POUND	0.49	
Lanternfishes	Myctophidae	2012	92.42	POUND	0.11	
Leaf-like eel	Thalassenchelys coheni	2012	1.11	POUND	0.02	
Lightfish (unidentified)	Phosichthyidae	2012	1.41	POUND	0.02	
Lingcod - Pacific Coast	Ophiodon elongatus	2012	1,278.04	POUND	0.59	
Longnose skate - Pacific Coast	Raja rhina	2012	1,215.19	POUND	0.59	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2012	0.52	POUND	0.02	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Medusafish	Icichthys lockingtoni	2012	0.37	POUND	0.02	
Mollusk (unidentified)	Mollusca	2012	512.58	POUND	0.12	
Non-eulachon smelt (unidentified)	Osmeriformes	2012	67,482.49	POUND	0.15	
Northern anchovy	Engraulis mordax	2012	26.33	POUND	0.43	
Nudibranch (unidentified)	Nudibranchia	2012	115.35	POUND	0.09	
Octopus (unidentified)	Octopoda	2012	592.59	POUND	0.12	
Other identified fish		2012	15,031.84	POUND	0.36	
Pacific argentine	Argentina sialis	2012	3.33	POUND	0.16	
Pacific chub mackerel	Scomber japonicus	2012	26.18	POUND	0.63	
Pacific cod - Pacific Coast	Gadus macrocephalus	2012	6.80	POUND	0.02	
Pacific hagfish	Eptatretus stoutii	2012	403.21	POUND	0.19	
Pacific hake	Merluccius productus	2012	41,315.63	POUND	0.20	
Pacific herring	Clupea pallasii	2012	10,783.50	POUND	0.90	
Pacific lamprey	Lampetra tridentata	2012	24.93	POUND	0.11	
Pacific ocean perch - Pacific Coast	Sebastes alutus	2012	429.94	POUND	0.19	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	2012	7,657.57	POUND	0.17	
Pacific sardine - Pacific Coast	Sardinops sagax	2012	23.88	POUND	0.17	
Pacific saury	Cololabis saira	2012	20.41	POUND	0.68	
Pacific tom cod	Microgadus proximus	2012	43.26	POUND	0.68	
Peanut worm (unidentified)	Sipuncula	2012	4.33	POUND	0.03	
Petrale sole - Pacific Coast	Eopsetta jordani	2012	1,945.28	POUND	0.26	
Poachers (unidentified)	Agonidae	2012	1,990.70	POUND	0.08	
Prickleback (unidentified)	Stichaeidae	2012	173.69	POUND	0.17	
Prowfish	Zaprora silenus	2012	6.51	POUND	0.03	
Pygmy rockfish	Sebastes wilsoni	2012	3.03	POUND	0.18	
Red irish lord sculpin	Hemilepidotus hemilepidotus	2012	1.85	POUND	0.18	
Red rock crab	Cancer productus	2012	0.37	POUND	0.02	
Redbanded rockfish	Sebastes babcocki	2012	33.69	POUND	0.23	
Redstripe rockfish	Sebastes proriger	2012	3.70	POUND	0.02	
Rex sole - Pacific Coast	Glyptocephalus zachirus	2012	30,217.93	POUND	0.06	
Rock sole	Paraplagusia bilineata	2012	705.12	POUND	0.18	
Roughback sculpin	Chitonotus pugetensis	2012	2.22	POUND	0.41	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	24.90	POUND	0.50	b
Sablefish - Pacific Coast	Anoplopoma fimbria	2012	166.52	POUND	0.28	
Sanddabs (unidentified)	Citharichthys	2012	169.21	POUND	0.55	
Sandpaper skate	Bathyraja interrupta	2012	28.71	POUND	0.43	
Sculpins (unidentified)	Cottidae	2012	42.79	POUND	0.21	
Sea anemones (unidentified)	Actiniaria	2012	1,303.64	POUND	0.14	
Sea cucumbers (unidentified)	Holothuroidea	2012	1,415.54	POUND	0.14	
Sea snail (unidentified)		2012	17.15	POUND	0.24	
Sea stars	Asteroidea	2012	835.53	POUND	0.10	

Table 6.5.2a



COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sea urchins	Echinoidea	2012	1,185.68	POUND	0.22	
Sea whips	Pennatulacea	2012	96.69	POUND	0.17	
Sen pen/pansies (unidentified)	Pennatulacea	2012	6.18	POUND	0.50	
Sharpchin rockfish	Sebastes zacentrus	2012	9.39	POUND	0.27	
Shelf rockfishes (other)	Sebastes	2012	12,751.57	POUND	0.50	
Shiner surfperch	Cymatogaster aggregata	2012	266.90	POUND	0.35	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	2012	830.45	POUND	0.54	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2012	245.37	POUND	0.16	
Shrimp (unidentified)	Decapoda	2012	1,720,399.12	POUND	0.11	
Silver surfperch	Hyperprosopon ellipticum	2012	104.94	POUND	0.33	
Skates (unidentified)	Rajidae	2012	1.11	POUND	0.24	
Slender sole	Lyopsetta exilis	2012	206,191.22	POUND	0.05	
Slim sculpin	Radulinus asprellus	2012	28.92	POUND	0.13	
Smelt (unidentified)	Osmeriformes	2012	52,614.55	POUND	0.14	
Snailfishes (unidentified)	Liparidae	2012	3.88	POUND	0.09	
Soft eelpout	Bothrocara molle	2012	1,946.19	POUND	0.02	
Southern spearnose poacher	Agonopsis sterletus	2012	0.44	POUND	0.03	
Speckled sanddab	Citharichthys stigmatias	2012	23.89	POUND	0.45	
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	1,975.80	POUND	0.32	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	2,345.25	POUND	0.23	
Sponge (unidentified)	Porifera	2012	4.15	POUND	0.07	
Spotted cusk-eel	Chilara taylori	2012	4.07	POUND	0.02	
Spotted ratfish	Hydrolagus collicii	2012	376.41	POUND	0.35	
Squat lobster (unidentified)	Anomura	2012	41.18	POUND	0.13	
Squids	Teuthida	2012	174,352.08	POUND	0.18	
Starry flounder - Pacific Coast	Platichthys stellatus	2012	19.23	POUND	0.02	
Starry skate	Raja stellulata	2012	0.37	POUND	0.02	
Stripetail rockfish	Sebastes saxicola	2012	1,507.27	POUND	0.38	
Surfperch (unidentified)	Embiotocidae	2012	38.69	POUND	0.27	
Tanneri tanner crab	Chionoecetes tanneri	2012	3.32	POUND	0.03	
Threadfin sculpin	Icelinus filamentosus	2012	0.74	POUND	0.02	
Tunicata	Tunicata	2012	151.19	POUND	0.12	
Walleye pollock	Theragra chalcogramma	2012	1,530.56	POUND	0.54	
Whitebait smelt	Allosmerus elongatus	2012	157,662.52	POUND	0.13	
Whitebarred prickleback	Poroclinus rothrocki	2012	167.96	POUND	0.16	
Widow rockfish - Pacific Coast	Sebastes entomelas	2012	260.44	POUND	0.55	
Wolf-eel	Anarrhichthys ocellatus	2012	0.37	POUND	0.02	
Worm (unidentified)		2012	29.62	POUND	0.12	
Wrymouth (unidentified)	Cryptacanthodes	2012	14.08	POUND	0.26	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2012	1.73	POUND	0.03	
Yellowtail rockfish	Sebastes flavidus	2012	2,523.98	POUND	0.21	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
<b>TOTAL FISHERY BYCATCH</b>			3,934,803.40	POUND		
<b>TOTAL FISHERY LANDINGS</b>			64,980,364.40	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			68,915,167.80	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.06			
<b>West Coast Groundfish Non-Trawl Gear: Limited Entry Sablefish-Endorsed Fixed Gear</b>						
Abyssal grenadier	Coryphaenoides armatus	2012	311.63	POUND	0.04	
Albacore	Thunnus alalunga	2012	361.74	POUND	0.24	
Aleutian skate	Bathyraja aleutica	2012	631.26	POUND	0.27	
Arched swimming crab	Callinectes arcuatus	2012	9.52	POUND	0.04	
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2012	71,317.75	POUND	0.16	
Aurora rockfish	Sebastes aurora	2012	454.19	POUND	0.36	
Bamboo corals		2012	16.86	POUND	0.04	
Big skate	Raja binoculata	2012	5,188.47	POUND	0.50	
Black skate	Bathyraja trachura	2012	514.24	POUND	0.29	
Blackgill rockfish	Sebastes melanostomus	2012	17,444.54	POUND	0.35	
Blue shark	Prionace glauca	2012	64,186.72	POUND	0.13	
Bluntnose sixgill shark	Hexanchus griseus	2012	87.07	POUND	0.04	
Bocaccio	Sebastes paucispinis	2012	78.25	POUND	0.49	
Brachiopod (unidentified)	Brachiopoda	2012	21.59	POUND	0.04	
Brittle/basket star (unidentified)	Ophiuroidea	2012	25.88	POUND	0.34	
Brown box crab	Lopholithodes foraminatus	2012	224.75	POUND	0.51	
Brown cat shark	Apristurus brunneus	2012	2,286.29	POUND	0.15	
Brown smoothhound shark	Mustelus henlei	2012	162.76	POUND	0.04	
California king crab	Paralithodes californiensis	2012	62.66	POUND	0.25	
California skate	Raja inornata	2012	9.29	POUND	0.04	
California slickhead	Alepocephalus tenebrosus	2012	17.67	POUND	0.20	
Canary rockfish	Sebastes pinniger	2012	66.10	POUND	0.03	
Chilipepper	Sebastes goodei	2012	20.06	POUND	0.87	
Crab (unidentified)	Brachyura	2012	7.34	POUND	0.07	
Crinoids (unidentified)	Crinoidea	2012	3.35	POUND	0.22	
Darkblotched rockfish - Pacific Coast	Sebastes cramerii	2012	3,248.96	POUND	0.45	
Decorator/spider crab (unidentified)	Majoidea	2012	1.35	POUND	0.05	
Deepsea sole	Microstomus bathybius	2012	12.92	POUND	0.25	
Dover sole - Pacific Coast	Microstomus pacificus	2012	8,425.86	POUND	0.14	
Dungeness crab	Cancer magister	2012	406.57	POUND	0.18	
Eelpouts	Zoarcidae	2012	15.79	POUND	0.53	
English sole - Pacific Coast	Parophrys vetulus	2012	35.29	POUND	0.95	
Filetail cat shark	Parmaturus xaniurus	2012	384.35	POUND	0.20	
Flatfishes (unidentified)	Pleuronectiformes	2012	4.40	POUND	0.07	
Giant grenadier	Albatrossia pectoralis	2012	33,594.02	POUND	0.36	
Giant wrymouth	Cryptacanthodes giganteus	2012	49.48	POUND	0.14	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Gorgonian coral (unidentified)	Alcyonacea	2012	0.56	POUND	0.04	
Greenstriped rockfish	Sebastes elongatus	2012	316.05	POUND	0.30	
Grenadiers	Macrouridae	2012	213.61	POUND	0.27	
Hagfish (unidentified)	Myxiniidae	2012	774.32	POUND	0.20	
Hair crab	Paralomis multispina	2012	157.53	POUND	0.32	
Horny gorgonians	Holaxonia	2012	24.43	POUND	0.32	
Invertebrates (unidentified)		2012	905.28	POUND	0.19	
Irregular echinoids	Echinoidea	2012	3.93	POUND	0.34	
Isopod (unidentified)	Isopoda	2012	1.39	POUND	0.06	
Jellyfish (unidentified)	Scyphozoa	2012	10.75	POUND	0.39	
Kelp crab (unidentified)	Pugettia	2012	0.03	POUND	0.07	
Lingcod - Pacific Coast	Ophiodon elongatus	2012	6,116.74	POUND	0.46	
Longnose cat shark	Apristurus kampae	2012	522.97	POUND	0.16	
Longnose skate - Pacific Coast	Raja rhina	2012	102,569.35	POUND	0.12	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2012	156.05	POUND	0.42	
Octopus (unidentified)	Octopoda	2012	702.28	POUND	0.37	
Pacific chub mackerel	Scomber japonicus	2012	2.79	POUND	0.04	
Pacific cod - Pacific Coast	Gadus macrocephalus	2012	442.54	POUND	0.46	
Pacific flatnose	Antimora microlepis	2012	90.20	POUND	0.27	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	2012	13,513.58	POUND	0.41	
Pacific hagfish	Eptatretus stoutii	2012	51.08	POUND	0.32	
Pacific hake	Merluccius productus	2012	2,080.76	POUND	0.23	
Pacific halibut	Hippoglossus stenolepis	2012	332,185.00	POUND	0.22	
Pacific ocean perch - Pacific Coast	Sebastes alutus	2012	62.83	POUND	0.71	
Pacific sleeper shark	Somniosus pacificus	2012	1,734.56	POUND	0.21	
Peanut worm (unidentified)	Sipuncula	2012	0.67	POUND	0.05	
Petrale sole - Pacific Coast	Eopsetta jordani	2012	112.47	POUND	0.61	
Popeye grenadier	Coryphaenoides cinereus	2012	1,452.62	POUND	0.11	
Redbanded rockfish	Sebastes babcocki	2012	17,300.53	POUND	0.29	
Rex sole - Pacific Coast	Glyptocephalus zachirus	2012	7.34	POUND	0.07	
Rosethorn rockfish	Sebastes helvomaculatus	2012	678.24	POUND	0.18	
Rosy rockfish	Sebastes rosaceus	2012	107.45	POUND	0.16	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	35,154.23	POUND	0.37	b
Sablefish - Pacific Coast	Anoplopoma fimbria	2012	1,209,338.19	POUND	0.06	
Sandpaper skate	Bathyraja interrupta	2012	2,721.63	POUND	0.15	
Scarlet king crab	Lithodes couesi	2012	29.45	POUND	0.16	
Sea anemones (unidentified)	Actiniaria	2012	231.62	POUND	0.23	
Sea cucumbers (unidentified)	Holothuroidea	2012	21.88	POUND	0.22	
Sea fans		2012	0.09	POUND	0.04	
Sea pens	Pennatulacea	2012	16.72	POUND	0.43	
Sea snail (unidentified)		2012	590.23	POUND	0.21	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sea stars	Asteroidea	2012	2,308.92	POUND	0.14	
Sea urchins	Echinoidea	2012	2,048.55	POUND	0.59	
Sea whips	Pennatulacea	2012	0.70	POUND	0.04	
Sharks (unidentified)	Elasmobranchii	2012	29,371.39	POUND	0.20	
Shelf rockfishes (other)	Sebastes	2012	23.22	POUND	0.04	
Shortraker rockfish	Sebastes borealis	2012	6,837.33	POUND	0.41	
Shortraker/rougheye rockfish	Sebastes	2012	79,060.83	POUND	0.15	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2012	9,092.48	POUND	0.15	
Shrimp (unidentified)	Decapoda	2012	0.29	POUND	0.87	
Silvergray rockfish	Sebastes brevispinis	2012	11.14	POUND	0.91	
Skates (unidentified)	Rajidae	2012	2.35	POUND	0.07	
Slope rockfishes (other)	Sebastes	2012	67.47	POUND	0.44	
Snailfishes (unidentified)	Liparidae	2012	24.37	POUND	0.21	
Soft coral	Alcyonacea	2012	1.39	POUND	0.24	
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	305,736.04	POUND	0.13	
Spiny king crab	Paralithodes rathbuni	2012	17.47	POUND	0.19	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	21.39	POUND	0.59	
Sponge (unidentified)	Porifera	2012	144.68	POUND	0.41	
Spongy gorgonians	Scleraxonia	2012	1.63	POUND	0.38	
Spotted ratfish	Hydrolagus colliciei	2012	6,999.99	POUND	0.15	
Squat lobster (unidentified)	Anomura	2012	1.08	POUND	0.03	
Squids	Teuthida	2012	0.15	POUND	0.07	
Starry skate	Raja stellulata	2012	11.38	POUND	0.04	
Stripetail rockfish	Sebastes saxicola	2012	14.63	POUND	0.04	
Swordspine rockfish	Sebastes ensifer	2012	82.29	POUND	0.71	
Tanner crabs	Chionoecetes	2012	20.55	POUND	0.31	
Tanneri tanner crab	Chionoecetes tanneri	2012	3,640.59	POUND	0.14	
Thornyheads	Sebastolobus	2012	6.73	POUND	0.04	
Tunicata	Tunicata	2012	0.59	POUND	0.07	
Viperfishes (unidentified)	Chauliodontinae	2012	0.59	POUND	0.36	
Widow rockfish - Pacific Coast	Sebastes entomelas	2012	9.06	POUND	0.87	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2012	503.09	POUND	0.24	
Yellowtail rockfish	Sebastes flavidus	2012	342.47	POUND	0.46	
<b>TOTAL FISHERY BYCATCH</b>			2,386,495.77	POUND		
<b>TOTAL FISHERY LANDINGS</b>			3,312,048.78	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			5,698,544.55	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.42			
<b>West Coast Groundfish Non-Trawl Gear: Non-Endorsed Fixed Gear</b>						
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2012	17,803.01	POUND	0.19	
Aurora rockfish	Sebastes aurora	2012	182.62	POUND	0.46	
Big skate	Raja binoculata	2012	9,668.82	POUND	0.43	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Bivalves (unidentified)	Bivalvia	2012	7.04	POUND	0.15	
Black hagfish	Eptatretus deani	2012	391.53	POUND	0.19	
Black skate	Bathyraja trachura	2012	8,447.46	POUND	0.30	
Blackgill rockfish	Sebastes melanostomus	2012	7,747.69	POUND	0.42	
Blue shark	Prionace glauca	2012	19,533.67	POUND	0.21	
Bluntnose sixgill shark	Hexanchus griseus	2012	316.89	POUND	0.16	
Bristlemouth (unidentified)	Gonostomatidae	2012	21.13	POUND	0.15	
Bronzespotted rockfish	Sebastes gilli	2012	211.26	POUND	0.15	
Brown cat shark	Apristurus brunneus	2012	6,957.60	POUND	0.17	
California grenadier	Nezumia stelgidolepis	2012	363.36	POUND	0.27	
California king crab	Paralithodes californiensis	2012	49.29	POUND	0.15	
California slickhead	Alepocephalus tenebrosus	2012	678.84	POUND	0.52	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2012	77.68	POUND	0.44	
Deep-sea rock crab	Glyptolithodes cristatipes	2012	105.63	POUND	0.18	
Deepsea sole	Microstomus bathybius	2012	39.43	POUND	0.15	
Dover sole - Pacific Coast	Microstomus pacificus	2012	6,542.68	POUND	0.16	
Dungeness crab	Cancer magister	2012	574.70	POUND	0.10	
Filetail cat shark	Parmaturus xaniurus	2012	13,708.43	POUND	0.40	
Giant grenadier	Albatrossia pectoralis	2012	8,135.15	POUND	0.18	
Giant wrymouth	Cryptacanthodes giganteus	2012	278.06	POUND	0.07	
Greenspotted rockfish	Sebastes chlorostictus	2012	77.46	POUND	0.15	
Greenstriped rockfish	Sebastes elongatus	2012	19.85	POUND	0.21	
Grenadiers	Macrouridae	2012	1,445.07	POUND	0.57	
Hagfish (unidentified)	Myxinidae	2012	491.33	POUND	0.15	
Hermit crab (unidentified)	Paguroidea	2012	3.70	POUND	0.11	
Invertebrates (unidentified)		2012	20,234.54	POUND	0.16	
Isopod (unidentified)	Isopoda	2012	1.36	POUND	0.20	
Lingcod - Pacific Coast	Ophiodon elongatus	2012	2,963.94	POUND	0.36	
Longnose cat shark	Apristurus kampae	2012	696.48	POUND	0.26	
Longnose skate - Pacific Coast	Raja rhina	2012	34,101.17	POUND	0.14	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2012	12,590.18	POUND	0.22	
Mackerel (unidentified)	Scombridae	2012	45.85	POUND	0.07	
Octopus (unidentified)	Octopoda	2012	454.01	POUND	0.20	
Other identified fish		2012	507.02	POUND	0.38	
Pacific black dogfish	Centroscyllium nigrum	2012	3,480.95	POUND	0.37	
Pacific flatnose	Antimora microlepis	2012	1,934.77	POUND	0.35	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	2012	28,435.10	POUND	0.40	
Pacific hagfish	Eptatretus stoutii	2012	105.67	POUND	0.33	
Pacific hake	Merluccius productus	2012	4,791.66	POUND	0.34	
Pacific halibut	Hippoglossus stenolepis	2012	90,008.33	POUND	0.30	
Pacific sleeper shark	Somniosus pacificus	2012	1,014.03	POUND	0.19	

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pelagic stingray	Pteroplatytrygon violacea	2012	253.51	POUND	0.15	
Petrale sole - Pacific Coast	Eopsetta jordani	2012	136.07	POUND	0.07	
Pink rockfish	Sebastes eos	2012	1,661.89	POUND	0.87	
Redbanded rockfish	Sebastes babcocki	2012	280.40	POUND	0.40	
Rosethorn rockfish	Sebastes helvomaculatus	2012	444.95	POUND	0.30	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	535.99	POUND	0.72	b
Sablefish - Pacific Coast	Anoplopoma fimbria	2012	277,907.23	POUND	0.19	
Sandpaper skate	Bathyraja interrupta	2012	903.50	POUND	0.30	
Scarlet king crab	Lithodes couesi	2012	45.07	POUND	0.15	
Sea anemones (unidentified)	Actiniaria	2012	163.77	POUND	0.31	
Sea cucumbers (unidentified)	Holothuroidea	2012	3,526.58	POUND	0.24	
Sea pens	Pennatulacea	2012	129.01	POUND	0.51	
Sea snail (unidentified)		2012	45.16	POUND	0.14	
Sea stars	Asteroidea	2012	1,947.46	POUND	0.19	
Sea urchins	Echinoidea	2012	1.48	POUND	0.07	
Sharks (unidentified)	Elasmobranchii	2012	280,963.18	POUND	0.20	
Sharpchin rockfish	Sebastes zacentrus	2012	37.76	POUND	0.11	
Shortfin mako	Isurus oxyrinchus	2012	732.36	POUND	0.82	
Shortraker/rougheye rockfish	Sebastes	2012	340.17	POUND	0.16	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2012	36,866.70	POUND	0.14	
Skates (unidentified)	Rajidae	2012	4,013.88	POUND	0.36	
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	65,374.17	POUND	0.40	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	21.13	POUND	0.94	
Spotted ratfish	Hydrolagus colliei	2012	9,035.17	POUND	0.17	
Tanner crabs	Chionoecetes	2012	50.74	POUND	0.09	
Tanneri tanner crab	Chionoecetes tanneri	2012	676.18	POUND	0.22	
Thornyheads	Sebastolobus	2012	14.79	POUND	0.07	
Tunicata	Tunicata	2012	319.38	POUND	0.55	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2012	349.05	POUND	0.07	
<b>TOTAL FISHERY BYCATCH</b>			992,021.17	POUND		
<b>TOTAL FISHERY LANDINGS</b>			2,834,321.68	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			3,826,342.85	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.26			
<b>West Coast Limited Entry Bottom Trawl; Fixed Gear</b>						
Aleutian skate	Bathyraja aleutica	2012	65.54	POUND		
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2012	11,991.79	POUND		
Aurora rockfish	Sebastes aurora	2012	47.50	POUND		
Bamboo corals		2012	10.35	POUND		
Bank rockfish	Sebastes rufus	2012	4.85	POUND		
Barnacles (unidentified)	Cirripedia	2012	0.05	POUND		
Big skate	Raja binoculata	2012	60.55	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Black coral	Antipatharia	2012	7.10	POUND		
Black hagfish	Eptatretus deani	2012	0.30	POUND		
Black skate	Bathyraja trachura	2012	2,228.47	POUND		
Blackgill rockfish	Sebastes melanostomus	2012	1,007.41	POUND		
Blue shark	Prionace glauca	2012	17,516.97	POUND		
Brittle/basket star (unidentified)	Ophiuroidea	2012	22.72	POUND		
Brown box crab	Lopholithodes foraminatus	2012	3.20	POUND		
Brown cat shark	Apristurus brunneus	2012	481.57	POUND		
California grenadier	Nezumia steligidolepis	2012	25.05	POUND		
California king crab	Paralithodes californiensis	2012	5.70	POUND		
California slickhead	Alepocephalus tenebrosus	2012	4.39	POUND		
Cat shark (unidentified)	Scyliorhinidae	2012	5.45	POUND		
Corals (unidentified)	Anthozoa	2012	0.10	POUND		
Crab (unidentified)	Brachyura	2012	162.67	POUND		
Crinoids (unidentified)	Crinoidea	2012	0.97	POUND		
Darkblotched rockfish - Pacific Coast	Sebastes cramerii	2012	344.18	POUND		
Decorator/spider crab (unidentified)	Majoidea	2012	41.55	POUND		
Deep-sea spider crab	Paralomis manningi	2012	236.05	POUND		
Deepsea sole	Microstomus bathybius	2012	35.26	POUND		
Dover sole - Pacific Coast	Microstomus pacificus	2012	2,856.77	POUND		
Dragonfishes (unidentified)	Melanostomiinae	2012	0.05	POUND		
Dungeness crab	Cancer magister	2012	1,242.68	POUND		
Eelpouts	Zoarcidae	2012	9.11	POUND		
Filetail cat shark	Parmaturus xaniurus	2012	578.16	POUND		
Flat-legged spider crab	Paralomis verrilli	2012	1.60	POUND		
Giant grenadier	Albatrossia pectoralis	2012	11,443.61	POUND		
Giant wrymouth	Cryptacanthodes giganteus	2012	44.02	POUND		
Greenstriped rockfish	Sebastes elongatus	2012	0.40	POUND		
Grenadiers	Macrouridae	2012	326.01	POUND		
Hagfish (unidentified)	Myxinidae	2012	53.11	POUND		
Hair crab	Paralomis multispina	2012	377.64	POUND		
Horny gorgonians	Holaxonia	2012	0.05	POUND		
Hydrocoral	Hydroidolina	2012	0.10	POUND		
Invertebrates (unidentified)		2012	251.08	POUND		
Irregular echinoids	Echinoidea	2012	27.39	POUND		
Isopod (unidentified)	Isopoda	2012	0.10	POUND		
Jellyfish (unidentified)	Scyphozoa	2012	24.08	POUND		
King crab (unidentified)	Lithodidae	2012	20.93	POUND		
Lingcod - Pacific Coast	Ophiodon elongatus	2012	128.98	POUND		
Longnose cat shark	Apristurus kampae	2012	1.35	POUND		
Longnose skate - Pacific Coast	Raja rhina	2012	43,034.21	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2012	97.98	POUND		
Loosejaw (unidentified)	Stomiidae	2012	0.15	POUND		
Mollusk (unidentified)	Mollusca	2012	4.81	POUND		
Nudibranch (unidentified)	Nudibranchia	2012	4.14	POUND		
Octopus (unidentified)	Octopoda	2012	198.32	POUND		
Pacific chub mackerel	Scomber japonicus	2012	1.00	POUND		
Pacific flatnose	Antimora microlepis	2012	310.42	POUND		
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	2012	10,361.27	POUND		
Pacific hagfish	Eptatretus stoutii	2012	1.30	POUND		
Pacific hake	Merluccius productus	2012	8.30	POUND		
Pacific halibut	Hippoglossus stenolepis	2012	36,470.59	POUND		
Pacific ocean perch - Pacific Coast	Sebastes alutus	2012	53.25	POUND		
Pacific pomfret	Brama japonica	2012	2.30	POUND		
Pacific saury	Cololabis saira	2012	2.05	POUND		
Pacific sleeper shark	Somniosus pacificus	2012	601.24	POUND		
Pacific viperfish	Chauliodus macouni	2012	0.05	POUND		
Petrале sole - Pacific Coast	Eopsetta jordani	2012	488.09	POUND		
Redbanded rockfish	Sebastes babcocki	2012	435.99	POUND		
Redstripe rockfish	Sebastes proriger	2012	4.40	POUND		
Rex sole - Pacific Coast	Glyptocephalus zachirus	2012	14.26	POUND		
Ribbonfishes (unidentified)	Trachipteridae	2012	0.05	POUND		
Rosethorn rockfish	Sebastes helvomaculatus	2012	91.24	POUND		
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	9,739.95	POUND		b
Sablefish - Pacific Coast	Anoplopoma fimbria	2012	46,049.40	POUND		
Sandpaper skate	Bathyrāja interrupta	2012	409.13	POUND		
Scarlet king crab	Lithodes couesi	2012	430.56	POUND		
Sculpins (unidentified)	Cottidae	2012	0.30	POUND		
Sea anemones (unidentified)	Actiniaria	2012	231.14	POUND		
Sea cucumbers (unidentified)	Holothuroidea	2012	46.87	POUND		
Sea fans		2012	0.70	POUND		
Sea pansies	Pennatulacea	2012	0.05	POUND		
Sea pens	Pennatulacea	2012	1.35	POUND		
Sea snail (unidentified)		2012	59.74	POUND		
Sea squirts (unidentified)	Asciacea	2012	1.81	POUND		
Sea stars	Asteroidea	2012	331.94	POUND		
Sea urchins	Echinoidea	2012	271.12	POUND		
Sea whips	Pennatulacea	2012	4.54	POUND		
Sharks (unidentified)	Elasmobranchii	2012	13,485.16	POUND		
Sharpchin rockfish	Sebastes zacentrus	2012	6.45	POUND		
Sheep crab	Loxorhynchus grandis	2012	0.15	POUND		
Shortraker rockfish	Sebastes borealis	2012	2,291.84	POUND		

Table 6.5.2a



COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Shortraker/rougheye rockfish	Sebastes	2012	4,766.54	POUND		
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2012	2,065.86	POUND		
Shrimp (unidentified)	Decapoda	2012	0.40	POUND		
Silvergray rockfish	Sebastes brevispinis	2012	3.95	POUND		
Skates (unidentified)	Rajidae	2012	1.50	POUND		
Slope rockfishes (other)	Sebastes	2012	27.82	POUND		
Snailfishes (unidentified)	Liparidae	2012	133.02	POUND		
Soft coral	Alcyonacea	2012	0.05	POUND		
Spiky king crab	Neolithodes diomedea	2012	9.81	POUND		
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	127,008.67	POUND		
Spiny king crab	Paralithodes rathbuni	2012	5.11	POUND		
Spiny lobster (unidentified)	Palinuridae	2012	0.25	POUND		
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	20.40	POUND		
Sponge (unidentified)	Porifera	2012	37.47	POUND		
Spongy gorgonians	Scleraxonia	2012	7.47	POUND		
Spotted ratfish	Hydrolagus colliei	2012	276.78	POUND		
Squat lobster (unidentified)	Anomura	2012	0.40	POUND		
Squids	Teuthida	2012	52.30	POUND		
Tanner crabs	Chionoecetes	2012	870.83	POUND		
Tanneri tanner crab	Chionoecetes tanneri	2012	8,640.51	POUND		
Thornyheads	Sebastolobus	2012	3.50	POUND		
Threadfin slickhead	Talismania bifurcata	2012	0.40	POUND		
Tunicata	Tunicata	2012	3.13	POUND		
Viperfishes (unidentified)	Chauliodontinae	2012	1.30	POUND		
Worm (unidentified)		2012	1.10	POUND		
Yellowmouth rockfish	Sebastes reedi	2012	215.55	POUND		
Yellowtail rockfish	Sebastes flavidus	2012	18.50	POUND		
<b>TOTAL FISHERY BYCATCH</b>			361,417.19	POUND		
<b>TOTAL FISHERY LANDINGS</b>			2,138,959.45	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			2,500,376.64	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.14			
<b>West Coast Limited Entry Bottom Trawl; Groundfish Bottom and Midwater Trawl</b>						
Abyssal grenadier	Coryphaenoides armatus	2012	3.55	POUND		
Aleutian skate	Bathyraja aleutica	2012	5,099.87	POUND		
American shad	Alosa sapidissima	2012	3,646.35	POUND		
Anchovy (unidentified)	Engraulidae	2012	12.71	POUND		
Anglerfish (unidentified)	Lophiiformes	2012	2.55	POUND		
Aplacophora (unidentified)	Aplacophora	2012	0.97	POUND		
Armed box crab	Platymera gaudichaudii	2012	1,434.48	POUND		
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2012	443,847.06	POUND		
Aurora rockfish	Sebastes aurora	2012	15,989.61	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Bamboo corals		2012		1.18		POUND
Bank rockfish	Sebastes rufus	2012		82.62		POUND
Barracudinas (unidentified)	Paralepididae	2012		0.82		POUND
Bat ray	Myliobatis californica	2012		2,207.10		POUND
Big skate	Raja binoculata	2012		90,617.83		POUND
Bigfin eelpout	Lycodes corteziianus	2012		2,439.64		POUND
Bivalves (unidentified)	Bivalvia	2012		30.82		POUND
Black coral	Antipatharia	2012		586.51		POUND
Black eelpout	Lycodes diapterus	2012		107.91		POUND
Black rockfish	Sebastes melanops	2012		23.18		POUND
Black skate	Bathyrāja trachura	2012		40,579.80		POUND
Blackbelly eelpout	Lycodes pacificus	2012		240.65		POUND
Blackdragon (unidentified)	Stomiidae	2012		0.30		POUND
Blackgill rockfish	Sebastes melanostomus	2012		338.27		POUND
Blob sculpin	Psychrolutes phrictus	2012		76.49		POUND
Blue shark	Prionace glauca	2012		5.54		POUND
Bluntnose sevengill shark	Notorynchus cepedianus	2012		24.06		POUND
Bluntnose sixgill shark	Hexanchus griseus	2012		100.72		POUND
Bocaccio	Sebastes paucispinis	2012		28.78		POUND
Brachiopod (unidentified)	Brachiopoda	2012		0.10		POUND
Bristlemouth (unidentified)	Gonostomatidae	2012		0.87		POUND
Brittle/basket star (unidentified)	Ophiuroidea	2012		1,000.26		POUND
Brown box crab	Lopholithodes foraminatus	2012		307.43		POUND
Brown cat shark	Apristurus brunneus	2012		77,150.05		POUND
Brown rockfish - Pacific Coast	Sebastes auriculatus	2012		0.30		POUND
Brown smoothhound shark	Mustelus henlei	2012		163.70		POUND
Buffalo sculpin	Enophrys bison	2012		3.65		POUND
Bull sculpin	Enophrys taurina	2012		0.20		POUND
Butter sole	Isopsetta isolepis	2012		3,825.26		POUND
Cabezon	Scorpaenichthys marmoratus	2012		183.06		POUND
California grenadier	Nezumia stelgidolepis	2012		2,039.58		POUND
California halibut	Paralichthys californicus	2012		16.45		POUND
California king crab	Paralithodes californiensis	2012		109.86		POUND
California skate	Raja inornata	2012		2,192.18		POUND
California slickhead	Alepocephalus tenebrosus	2012		29,983.28		POUND
Canary rockfish	Sebastes pinniger	2012		91.98		POUND
Cat shark (unidentified)	Scyliorhinidae	2012		1,218.56		POUND
Chilipepper	Sebastes goodei	2012		118,120.60		POUND
Chinook salmon	Oncorhynchus tshawytscha	2012		1,168.44		POUND
Cod (unidentified)	Gadus	2012		4.90		POUND
Coho salmon	Oncorhynchus kisutch	2012		110.23		POUND

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Combfish (unidentified)	Coris	2012	20.09	POUND		
Corals (unidentified)	Anthozoa	2012	29.57	POUND		
Cowcod	Sebastes levis	2012	21.54	POUND		
Crab (unidentified)	Brachyura	2012	50.24	POUND		
Crinoids (unidentified)	Crinoidea	2012	0.10	POUND		
Croaker (unidentified)	Sciaenidae	2012	12.09	POUND		
Crustacean (unidentified)	Crustacea	2012	0.05	POUND		
Curlfin sole	Pleuronichthys decurrens	2012	1,119.85	POUND		
Cusk-eel (unidentified)	Ophidiidae	2012	305.80	POUND		
Daggertooth	Anopterus pharao	2012	3.73	POUND		
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2012	5,116.33	POUND		
Decorator/spider crab (unidentified)	Majoidea	2012	13.10	POUND		
Deep-sea spider crab	Paralomis manningi	2012	9.87	POUND		
Deepsea skate	Bathyraja abyssicola	2012	732.85	POUND		
Deepsea smelt (unidentified)	Bathylagidae	2012	0.30	POUND		
Deepsea sole	Microstomus bathybius	2012	32,163.63	POUND		
Diamond turbot	Pleuronichthys guttulatus	2012	267.72	POUND		
Dogfish shark (unidentified)	Squalidae	2012	6.09	POUND		
Dover sole - Pacific Coast	Microstomus pacificus	2012	169,631.20	POUND		
Dragonfishes (unidentified)	Melanostomiinae	2012	0.77	POUND		
Dungeness crab	Cancer magister	2012	429,221.08	POUND		
Echinoderm (unidentified)	Echinodermata	2012	0.01	POUND		
Eelpouts	Zoarcidae	2012	51,505.57	POUND		
English sole - Pacific Coast	Parophrys vetulus	2012	70,586.26	POUND		
Eulachon	Thaleichthys pacificus	2012	13.25	POUND		
Fangtooth	Anoplogaster cornuta	2012	1.29	POUND		
Filamented grenadier	Coryphaenoides filifer	2012	0.25	POUND		
Filetail cat shark	Parmaturus xaniurus	2012	6,861.18	POUND		
Flatfishes (unidentified)	Pleuronectiformes	2012	18.00	POUND		
Flathead sole	Hippoglossoides elassodon	2012	6,198.92	POUND		
Giant grenadier	Albatrossia pectoralis	2012	203,483.80	POUND		
Giant wrymouth	Cryptacanthodes giganteus	2012	103.62	POUND		
Gorgonian coral (unidentified)	Alcyonacea	2012	0.05	POUND		
Green sturgeon	Acipenser medirostris	2012	654.30	POUND		a
Greenspotted rockfish	Sebastes chlorostictus	2012	366.22	POUND		
Greenstriped rockfish	Sebastes elongatus	2012	9,986.19	POUND		
Grenadiers	Macrouridae	2012	32,599.75	POUND		
Groundfishes (unidentified)		2012	0.00	POUND		
Hagfish (unidentified)	Myxinidae	2012	4.54	POUND		
Hair crab	Paralomis multispina	2012	37.52	POUND		
Halfbanded rockfish	Sebastes semicinctus	2012	62.20	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Harlequin rockfish	Sebastes variegatus	2012		0.52		POUND
Hermit crab (unidentified)	Paguroidea	2012		22.75		POUND
Horny gorgonians	Holaxonia	2012		7.78		POUND
Hornyhead turbot	Pleuronichthys verticalis	2012		45.58		POUND
Invertebrates (unidentified)		2012		48,514.12		POUND
Irregular echinoids	Echinoidea	2012		185.09		POUND
Isopod (unidentified)	Isopoda	2012		1.88		POUND
Jack mackerel - Pacific Coast	Trachurus symmetricus	2012		432.99		POUND
Jellyfish (unidentified)	Scyphozoa	2012		39,895.09		POUND
Kelp greenling	Hexagrammos decagrammus	2012		192.93		POUND
King crab (unidentified)	Lithodidae	2012		15.54		POUND
King-of-salmon	Trachipterus altivelis	2012		10.00		POUND
Lancetfish (unidentified)	Alepisaurus	2012		10.41		POUND
Lanternfishes	Myctophidae	2012		15.54		POUND
Leopard shark	Triakis semifasciata	2012		563.80		POUND
Lingcod - Pacific Coast	Ophiodon elongatus	2012		66,644.06		POUND
Longnose cat shark	Apristurus kampae	2012		4,326.01		POUND
Longnose lancetfish	Alepisaurus ferox	2012		4.81		POUND
Longnose skate - Pacific Coast	Raja rhina	2012		241,271.27		POUND
Longspine combfish	Zaniolepis latipinnis	2012		161.90		POUND
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2012		82,885.17		POUND
Lumpsucker (unidentified)	Cyclopteridae	2012		1.67		POUND
Lyre crab (unidentified)	Hyas	2012		0.79		POUND
Mackerel (unidentified)	Scombridae	2012		187.30		POUND
Medusafish	Icichthys lockingtoni	2012		3.93		POUND
Midshipman (toadfish) (unidentified)	Porichthys	2012		265.94		POUND
Mixed species		2012		0.32		POUND
Mollusk (unidentified)	Mollusca	2012		26.15		POUND
Moridae (unidentified)	Moridae	2012		184.75		POUND
Nearshore rockfish (unidentified)	Sebastes	2012		0.52		POUND
Night smelt	Spirinchus starksi	2012		0.10		POUND
Non-eulachon smelt (unidentified)	Osmeriformes	2012		5.25		POUND
Nudibranch (unidentified)	Nudibranchia	2012		97.32		POUND
Ocean sunfish	Mola mola	2012		352.12		POUND
Octopus (unidentified)	Octopoda	2012		8,840.56		POUND
Opalescent inshore squid	Loligo opalescens	2012		0.00		POUND
Other identified fish		2012		16.38		POUND
Other nongroundfish		2012		0.10		POUND
Oxeye oreo	Allocyttus folletti	2012		28.16		POUND
Pacific argentine	Argentina sialis	2012		0.10		POUND
Pacific chub mackerel	Scomber japonicus	2012		258.15		POUND

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2012	1,539.94	POUND		
Pacific electric ray	<i>Torpedo californica</i>	2012	2,434.04	POUND		
Pacific flatnose	<i>Antimora microlepis</i>	2012	3,531.20	POUND		
Pacific grenadier - Pacific Coast	<i>Coryphaenoides acrolepis</i>	2012	81,233.47	POUND		
Pacific hagfish	<i>Eptatretus stoutii</i>	2012	1.13	POUND		
Pacific hake	<i>Merluccius productus</i>	2012	508,194.99	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2012	165,937.63	POUND		
Pacific herring	<i>Clupea pallasii</i>	2012	122.01	POUND		
Pacific lamprey	<i>Lampetra tridentata</i>	2012	0.11	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2012	2,511.53	POUND		
Pacific pomfret	<i>Brama japonica</i>	2012	0.52	POUND		
Pacific pompano	<i>Peprilus simillimus</i>	2012	1.56	POUND		
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	2012	156,044.25	POUND		
Pacific sandfish	<i>Trichodon trichodon</i>	2012	2.03	POUND		
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	2012	1,427.01	POUND		
Pacific saury	<i>Cololabis saira</i>	2012	0.89	POUND		
Pacific scabbardfish	<i>Lepidopus caudatus</i>	2012	38.74	POUND		
Pacific sleeper shark	<i>Somniosus pacificus</i>	2012	8,161.34	POUND		
Pacific staghorn sculpin	<i>Leptocottus armatus</i>	2012	278.70	POUND		
Pacific tom cod	<i>Microgadus proximus</i>	2012	74.38	POUND		
Pacific viperfish	<i>Chauliodus macouni</i>	2012	0.05	POUND		
Pallid eelpout	<i>Lycodapus mandibularis</i>	2012	96.16	POUND		
Paperbone (unidentified)	<i>Scopelosaurus</i>	2012	1.24	POUND		
Pelagic thresher	<i>Alopias pelagicus</i>	2012	11.00	POUND		
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2012	25,468.73	POUND		
Pile surfperch	<i>Rhacochilus vacca</i>	2012	24.13	POUND		
Pink rockfish	<i>Sebastes eos</i>	2012	0.20	POUND		
Pink salmon	<i>Oncorhynchus gorbuscha</i>	2012	4.41	POUND		
Pink seaperch	<i>Zalembeus rosaceus</i>	2012	22.38	POUND		
Plainfin midshipman	<i>Porichthys notatus</i>	2012	133.83	POUND		
Poachers (unidentified)	Agonidae	2012	101.71	POUND		
Popeye grenadier	<i>Coryphaenoides cinereus</i>	2012	20.74	POUND		
Prickleback (unidentified)	Stichaeidae	2012	11.68	POUND		
Prowfish	<i>Zaprora silenus</i>	2012	1.04	POUND		
Pygmy rockfish	<i>Sebastes wilsoni</i>	2012	0.00	POUND		
Ragfish	<i>Icosteus aenigmaticus</i>	2012	52.70	POUND		
Ray (unidentified)	Myliobatiformes	2012	13.54	POUND		
Red rock crab	<i>Cancer productus</i>	2012	29.77	POUND		
Redbanded rockfish	<i>Sebastes babcocki</i>	2012	1,405.93	POUND		
Redstripe rockfish	<i>Sebastes proriger</i>	2012	96.55	POUND		
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	2012	57,846.76	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Ribbonfishes (unidentified)	Trachipteridae	2012	9.42	POUND		
Rock greenling	Hexagrammos lagocephalus	2012	0.57	POUND		
Rock sole	Paraplagusia bilineata	2012	541.96	POUND		
Rosethorn rockfish	Sebastes helvomaculatus	2012	1,705.48	POUND		
Rosy rockfish	Sebastes rosaceus	2012	160.45	POUND		
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	135.79	POUND		b
Roughscale sole	Clidoderma asperrimum	2012	4.84	POUND		
Roundfishes (unidentified)		2012	2.74	POUND		
Sablefish - Pacific Coast	Anoplopoma fimbria	2012	17,053.92	POUND		
Salmon (unidentified)	Oncorhynchus	2012	4.41	POUND		
Sand sole - Pacific Coast	Psettichthys melanostictus	2012	1,646.42	POUND		
Sanddabs (unidentified)	Citharichthys	2012	2,945.30	POUND		
Sandpaper skate	Bathyraja interrupta	2012	87,504.45	POUND		
Scaleless dragonfish (unidentified)	Stomiidae	2012	0.46	POUND		
Scarlet king crab	Lithodes couesi	2012	196.17	POUND		
Sculpins (unidentified)	Cottidae	2012	4,279.56	POUND		
Sea anemones (unidentified)	Actiniaria	2012	53,688.62	POUND		
Sea cucumbers (unidentified)	Holothuroidea	2012	1,839.72	POUND		
Sea fans		2012	4.01	POUND		
Sea pens	Pennatulacea	2012	22.34	POUND		
Sea snail (unidentified)		2012	483.62	POUND		
Sea squirts (unidentified)	Asciidiacea	2012	478.77	POUND		
Sea stars	Asteroidea	2012	25,477.32	POUND		
Sea urchins	Echinoidea	2012	6,771.99	POUND		
Sea whips	Pennatulacea	2012	175.21	POUND		
Sea whips/fans	Holaxonia	2012	0.36	POUND		
Sen pen/pansies (unidentified)	Pennatulacea	2012	0.65	POUND		
Sharks (unidentified)	Elasmobranchii	2012	45,765.64	POUND		
Sharpchin rockfish	Sebastes zacentrus	2012	1,940.12	POUND		
Sheep crab	Loxorhynchus grandis	2012	6.21	POUND		
Shelf rockfishes (other)	Sebastes	2012	2,341.04	POUND		
Shortbelly rockfish - Pacific Coast	Sebastes jordani	2012	12,753.19	POUND		
Shortraker rockfish	Sebastes borealis	2012	17.70	POUND		
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2012	12,369.43	POUND		
Shoulderspot grenadier	Caelorinchus scaphopsis	2012	0.25	POUND		
Shovelnose guitarfish	Rhinobatos productus	2012	8.70	POUND		
Shrimp (unidentified)	Decapoda	2012	237.96	POUND		
Silvergray rockfish	Sebastes brevispinis	2012	2.59	POUND		
Skates (unidentified)	Rajidae	2012	4,780.33	POUND		
Slender codling	Halargyreus johnsonii	2012	2.63	POUND		
Slender sole	Lyopsetta exilis	2012	81,693.19	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Slickhead (unidentified)	Alepocephalidae	2012	2,363.00	POUND		
Slope rockfishes (other)	Sebastes	2012	364.60	POUND		
Smelt (unidentified)	Osmeriformes	2012	31.78	POUND		
Smooth grenadier	Nezumia liolepis	2012	149.89	POUND		
Snailfishes (unidentified)	Liparidae	2012	2,379.14	POUND		
Snakehead eelpout	Lycenchelys crotalinus	2012	21.41	POUND		
Snipe eels (unidentified)	Nemichthyidae	2012	0.05	POUND		
Soft coral	Alcyonacea	2012	19.50	POUND		
Softhead grenadier	Malacocephalus laevis	2012	3.91	POUND		
Southern Tanner crab	Chionoecetes bairdi	2012	41.01	POUND		
Speckled sanddab	Citharichthys stigmaeus	2012	10.07	POUND		
Specklefin midshipman	Porichthys myriaster	2012	2.52	POUND		
Spiky king crab	Neolithodes diomedea	2012	21.86	POUND		
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	635,895.67	POUND		
Spiny king crab	Paralithodes rathbuni	2012	25.15	POUND		
Spiny lithode crab	Acantholithodes hispidus	2012	7.55	POUND		
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	101,484.22	POUND		
Sponge (unidentified)	Porifera	2012	5,149.05	POUND		
Spongy gorgonians	Scleraxonia	2012	3.47	POUND		
Spotted cusk-eel	Chilara taylori	2012	0.52	POUND		
Spotted ratfish	Hydrolagus colliei	2012	174,169.07	POUND		
Squarespot rockfish	Sebastes hopkinsi	2012	1.38	POUND		
Squat lobster (unidentified)	Anomura	2012	5.23	POUND		
Squids	Teuthida	2012	12,029.51	POUND		
Starry flounder - Pacific Coast	Platichthys stellatus	2012	629.33	POUND		
Starry rockfish	Sebastes constellatus	2012	134.81	POUND		
Starry skate	Raja stellulata	2012	277.97	POUND		
Stony coral	Scleractinia	2012	12.01	POUND		
Striped bass	Morone saxatilis	2012	15.65	POUND		
Stripetail rockfish	Sebastes saxicola	2012	27,604.44	POUND		
Surfperch (unidentified)	Embiotocidae	2012	55.86	POUND		
Tanner crabs	Chionoecetes	2012	45,829.15	POUND		
Tanneri tanner crab	Chionoecetes tanneri	2012	276,495.60	POUND		
Thornback	Platyrhinoidis triseriata	2012	9.95	POUND		
Thornyheads	Sebastolobus	2012	3,609.27	POUND		
Threadfin sculpin	Icelinus filamentosus	2012	145.74	POUND		
Threadfin slickhead	Talismania bifurcata	2012	1,696.68	POUND		
Thresher shark	Alopias vulpinus	2012	66.05	POUND		
Tiger rockfish	Sebastes nigrocinctus	2012	1.69	POUND		
Tope	Galeorhinus galeus	2012	1,169.08	POUND		
Tubeshoulders (unidentified)	Platyroctidae	2012	1.14	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Tunicata	Tunicata	2012	120.46	POUND		
Twoline eelpout	Bothrocara brunneum	2012	3,570.01	POUND		
Vermilion rockfish	Sebastes miniatus	2012	2.10	POUND		
Viperfishes (unidentified)	Chauliodontinae	2012	13.95	POUND		
Walleye pollock	Theragra chalcogramma	2012	1.76	POUND		
Whiptail gulper (unidentified)	Saccopharynx	2012	0.81	POUND		
White croaker	Genyonemus lineatus	2012	57.01	POUND		
White skate	Bathyraja spinosissima	2012	944.98	POUND		
Whitebait smelt	Allosmerus elongatus	2012	2.19	POUND		
Whitebarred prickleback	Poroclinus rothrocki	2012	0.10	POUND		
Widow rockfish - Pacific Coast	Sebastes entomelas	2012	30.01	POUND		
Wolf-eel	Anarrhichthys ocellatus	2012	38.71	POUND		
Worm (unidentified)		2012	2.27	POUND		
Wrymouth (unidentified)	Cryptacanthodes	2012	416.19	POUND		
Yellowmouth rockfish	Sebastes reedi	2012	3.42	POUND		
Yellowtail rockfish	Sebastes flavidus	2012	499.54	POUND		
<b>TOTAL FISHERY BYCATCH</b>			5,043,475.12	POUND		
<b>TOTAL FISHERY LANDINGS</b>			37,696,003.38	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			42,739,478.50	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.12			
<b>West Coast Mid-Water Trawl for Whiting, At-Sea Processing</b>						
American shad	Alosa sapidissima	2012	2,979.17	POUND		
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2012	4,310.42	POUND		
Aurora rockfish	Sebastes aurora	2012	26.25	POUND		
Bank rockfish	Sebastes rufus	2012	10.48	POUND		
Barracudinas (unidentified)	Paralepididae	2012	10.84	POUND		
Big skate	Raja binoculata	2012	212.72	POUND		
Blackgill rockfish	Sebastes melanostomus	2012	29.67	POUND		
Blue shark	Prionace glauca	2012	232.62	POUND		
Bocaccio	Sebastes paucispinis	2012	141.49	POUND		
Brown cat shark	Apristurus brunneus	2012	19,042.72	POUND		
Canary rockfish	Sebastes pinniger	2012	589.64	POUND		
Chilipepper	Sebastes goodei	2012	7.91	POUND		
Chinook salmon	Oncorhynchus tshawytscha	2012	29,100.72	POUND		
Chum salmon	Oncorhynchus keta	2012	460.76	POUND		
Coho salmon	Oncorhynchus kisutch	2012	63.93	POUND		
Darkblotched rockfish - Pacific Coast	Sebastes cramerii	2012	2,496.60	POUND		
Deepsea smelt (unidentified)	Bathylagidae	2012	0.00	POUND		
Dover sole - Pacific Coast	Microstomus pacificus	2012	228.84	POUND		
Dragonfishes (unidentified)	Melanostominae	2012	11.87	POUND		
Duckbill barracudina	Magnisudis atlantica	2012	985.70	POUND		

Table 6.5.2a



COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Eelpouts	Zoarcidae	2012	31.81	POUND		
English sole - Pacific Coast	Parophrys vetulus	2012	3.74	POUND		
Eulachon	Thaleichthys pacificus	2012	3.38	POUND		
Fishes (unidentified)		2012	12.89	POUND		
Flatfishes (unidentified)	Pleuronectiformes	2012	1.18	POUND		
Grenadiers	Macrouridae	2012	21.59	POUND		
Hatchetfish (unidentified)	Sternoptychidae	2012	0.02	POUND		
Hermit crab (unidentified)	Paguroidea	2012	0.04	POUND		
Jack mackerel - Pacific Coast	Trachurus symmetricus	2012	21,855.63	POUND		
Jellyfish (unidentified)	Scyphozoa	2012	2,479.24	POUND		
Jumbo squid	Dosidicus gigas	2012	65.67	POUND		
King-of-salmon	Trachipterus altivelis	2012	3,883.33	POUND		
Lampreys (unidentified)	Petromyzontidae	2012	53.20	POUND		
Lancetfishes	Alepisaurus	2012	24.93	POUND		
Lanternfishes	Myctophidae	2012	137.48	POUND		
Lingcod - Pacific Coast	Ophiodon elongatus	2012	154.88	POUND		
Longnose skate - Pacific Coast	Raja rhina	2012	133.94	POUND		
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2012	3.56	POUND		
Loosejaw (unidentified)	Stomiidae	2012	5.52	POUND		
Manefishes	Caristiidae	2012	1.51	POUND		
Medusafish	Icichthys lockingtoni	2012	186.57	POUND		
Mixed species		2012	131.49	POUND		
Northern anchovy	Engraulis mordax	2012	0.04	POUND		
Ocean sunfish	Mola mola	2012	163.26	POUND		
Octopus (unidentified)	Octopoda	2012	8.88	POUND		
Opah - Pacific	Lampris guttatus	2012	40.31	POUND		
Pacific chub mackerel	Scomber japonicus	2012	5,506.19	POUND		
Pacific cod - Pacific Coast	Gadus macrocephalus	2012	42.94	POUND		
Pacific electric ray	Torpedo californica	2012	130.14	POUND		
Pacific hake	Merluccius productus	2012	662,618.55	POUND		
Pacific halibut	Hippoglossus stenolepis	2012	1,410.94	POUND		
Pacific herring	Clupea pallasii	2012	1.98	POUND		
Pacific lamprey	Lampetra tridentata	2012	1.72	POUND		
Pacific ocean perch - Pacific Coast	Sebastes alutus	2012	4,831.29	POUND		
Pacific pomfret	Brama japonica	2012	86.68	POUND		
Pacific sardine - Pacific Coast	Sardinops sagax	2012	332.49	POUND		
Pacific saury	Cololabis saira	2012	0.56	POUND		
Pacific sleeper shark	Somniosus pacificus	2012	1,389.98	POUND		
Paperbone (unidentified)	Scopelosaurus	2012	1.71	POUND		
Pink salmon	Oncorhynchus gorbuscha	2012	66.14	POUND		
Prowfish	Zaprora silenus	2012	0.04	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Ragfish	Icosteus aenigmaticus	2012	8,774.27	POUND		
Redbanded rockfish	Sebastes babcocki	2012	13.85	POUND		
Redstripe rockfish	Sebastes proriger	2012	49.12	POUND		
Rex sole - Pacific Coast	Glyptocephalus zachirus	2012	1,633.38	POUND		
Ribbonfishes (unidentified)	Trachipteridae	2012	90.78	POUND		
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	53,210.94	POUND		b
Roundfishes (unidentified)		2012	104.09	POUND		
Sablefish - Pacific Coast	Anoplopoma fimbria	2012	1,608.24	POUND		
Salmon shark	Lamna ditropis	2012	3,387.25	POUND		
Sea cucumbers (unidentified)	Holothuroidea	2012	0.20	POUND		
Sharpchin rockfish	Sebastes zacentrus	2012	2.11	POUND		
Shortbelly rockfish - Pacific Coast	Sebastes jordani	2012	382.09	POUND		
Shortraker rockfish	Sebastes borealis	2012	163.13	POUND		
Shortraker/rougheye rockfish	Sebastes	2012	5.10	POUND		
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2012	2,706.23	POUND		
Shrimp (unidentified)	Decapoda	2012	10.98	POUND		
Silvergray rockfish	Sebastes brevispinis	2012	616.04	POUND		
Skates (unidentified)	Rajidae	2012	6.28	POUND		
Slender barracudina	Lestidiops ringens	2012	0.09	POUND		
Slender sole	Lyopsetta exilis	2012	0.00	POUND		
Slope rockfishes (other)	Sebastes	2012	0.80	POUND		
Smelt (unidentified)	Osmeriformes	2012	0.18	POUND		
Snailfishes (unidentified)	Liparidae	2012	3.07	POUND		
Snipe eels (unidentified)	Nemichthyidae	2012	0.04	POUND		
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	292,428.07	POUND		
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	7,303.76	POUND		
Squids	Teuthida	2012	85,572.97	POUND		
Stripetail rockfish	Sebastes saxicola	2012	1.34	POUND		
Tope	Galeorhinus galeus	2012	160.61	POUND		
Tubeshoulders (unidentified)	Platyroctidae	2012	30.38	POUND		
Viperfishes (unidentified)	Chauliodontinae	2012	8.79	POUND		
White barracudina	Arctozenus risso	2012	19.48	POUND		
Widow rockfish - Pacific Coast	Sebastes entomelas	2012	90,903.67	POUND		
Yellowmouth rockfish	Sebastes reedi	2012	437.67	POUND		
Yellowtail rockfish	Sebastes flavidus	2012	69,628.17	POUND		
<b>TOTAL FISHERY BYCATCH</b>			1,386,030.96	POUND		
<b>TOTAL FISHERY LANDINGS</b>			206,850,268.20	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			208,236,299.16	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			<0.01			
<b>West Coast Mid-Water Trawl for Whiting, Shoreside Processing</b>						
Blue shark	Prionace glauca	2012	430.92	POUND		

Table 6.5.2a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Brown cat shark	Apristurus brunneus	2012	11.14	POUND		
Canary rockfish	Sebastes pinniger	2012	3.00	POUND		
Chinook salmon	Oncorhynchus tshawytscha	2012	17,416.34	POUND		
Chum salmon	Oncorhynchus keta	2012	22.05	POUND		
Coho salmon	Oncorhynchus kisutch	2012	88.18	POUND		
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2012	65.00	POUND		
Dungeness crab	Cancer magister	2012	3.21	POUND		
Invertebrates (unidentified)		2012	21.02	POUND		
Jellyfish (unidentified)	Scyphozoa	2012	1.26	POUND		
Pacific hake	Merluccius productus	2012	282,021.10	POUND		
Pacific halibut	Hippoglossus stenolepis	2012	1,372.99	POUND		
Pacific ocean perch - Pacific Coast	Sebastes alutus	2012	65.00	POUND		
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2012	30.00	POUND		b
Salmon (unidentified)	Oncorhynchus	2012	99.21	POUND		
Sharks (unidentified)	Elasmobranchii	2012	14,883.24	POUND		
Spiny dogfish - Pacific Coast	Squalus acanthias	2012	1,003.48	POUND		
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2012	501.45	POUND		
Squids	Teuthida	2012	676.44	POUND		
Thresher shark	Alopias vulpinus	2012	1,239.53	POUND		
Tope	Galeorhinus galeus	2012	292.71	POUND		
Widow rockfish - Pacific Coast	Sebastes entomelas	2012	105.00	POUND		
Yellowtail rockfish	Sebastes flavidus	2012	74.00	POUND		
<b>TOTAL FISHERY BYCATCH</b>			320,426.27	POUND		
<b>TOTAL FISHERY LANDINGS</b>			157,696,179.20	POUND		
<b>TOTAL CATCH (Bycatch + Landings)</b>			158,016,605.47	POUND		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			<0.01			
<b>West Coast Salmon Troll, Non-Tribal Ocean</b>						
Chinook salmon	Oncorhynchus tshawytscha	2012	454,211.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	2012	46,971.00	INDIVIDUAL		
<b>TOTAL FISHERY BYCATCH</b>			501,182.00	INDIVIDUAL		
<b>TOTAL FISHERY LANDINGS</b>			327,900.00	INDIVIDUAL		
<b>TOTAL CATCH (Bycatch + Landings)</b>			829,082.00	INDIVIDUAL		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.60			
<b>West Coast Salmon Troll, Tribal Ocean</b>						
Chinook salmon	Oncorhynchus tshawytscha	2012	18,940.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	2012	4,667.00	INDIVIDUAL		
<b>TOTAL FISHERY BYCATCH</b>			23,607.00	INDIVIDUAL		
<b>TOTAL FISHERY LANDINGS</b>			93,500.00	INDIVIDUAL		
<b>TOTAL CATCH (Bycatch + Landings)</b>			117,107.00	INDIVIDUAL		
<b>FISHERY BYCATCH RATIO (Bycatch/Total Catch)</b>			0.20			

Table 6.5.2a

**FOOTNOTES:**

1 If the bycatch amount for a species is reported as 0.00, the estimated bycatch amount was less than 0.01 lbs but greater than 0.00 lbs.

3 In fisheries with 100% coverage, NMFS estimated CVs to be zero, as the amount of uncertainty is too small to detect with confidence. NMFS did not report CVs for a small number of protected fish species, as data at the level of aggregation needed for this report were unavailable.

a Green sturgeon bycatch estimates for the California Halibut Trawl fishery include any bycatch made by the Limited Entry California Halibut Trawl fishery. For all other species, the limited entry California trawl bycatch is aggregated with the West Coast Limited Entry Bottom Trawl; Groundfish Bottom and Midwater Trawl fishery.

b The rougheye/blackspotted rockfish complex is reported here as Rougheye rockfish -- Pacific Coast.