

TABLE 6.5.3a WEST COAST REGION FISH BYCATCH BY FISHERY (2013) Fishery bycatch ratio = bycatch / (bycatch + landings).^{1,3}

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
California Halibut Trawl						
American shad	<i>Alosa sapidissima</i>	2013	37.57	POUND	0.24	
Bat ray	<i>Myliobatis californica</i>	2013	29,186.71	POUND	0.43	
Big skate	<i>Raja binoculata</i>	2013	93,736.88	POUND	0.17	
Brown irish lord sculpin	<i>Hemilepidotus spinosus</i>	2013	1.60	POUND	0.08	
Brown rockfish - Pacific Coast	<i>Sebastes auriculatus</i>	2013	55.96	POUND	0.25	
Brown smoothhound shark	<i>Mustelus henlei</i>	2013	3,404.53	POUND	0.38	
Buffalo sculpin	<i>Enophrys bison</i>	2013	8.79	POUND	0.08	
California halibut	<i>Paralichthys californicus</i>	2013	1,816.97	POUND	0.22	
California skate	<i>Raja inornata</i>	2013	12,116.90	POUND	0.45	
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2013	22.05	POUND		
Curlfin sole	<i>Pleuronichthys decurrens</i>	2013	2,472.62	POUND	0.53	
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2013	7.19	POUND	0.08	
Dungeness crab	<i>Cancer magister</i>	2013	401,006.92	POUND	0.11	
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2013	928.87	POUND	0.25	
Green sturgeon	<i>Acipenser medirostris</i>	2013	7,115.26	POUND		a
Hornyhead turbot	<i>Pleuronichthys verticalis</i>	2013	28.78	POUND	0.36	
Jellyfish (unidentified)	Scyphozoa	2013	140,483.57	POUND	0.83	
Kelp greenling	<i>Hexagrammos decagrammus</i>	2013	4.80	POUND	0.08	
Leopard shark	<i>Triakis semifasciata</i>	2013	2,815.39	POUND	0.51	
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2013	23.18	POUND	0.34	
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2013	936.87	POUND	0.08	
Longspine combfish	<i>Zaniolepis latipinnis</i>	2013	39.97	POUND	0.57	
Night smelt	<i>Spirinchus starksi</i>	2013	4.00	POUND	0.36	
Non-humboldt squid (unidentified)	Teuthida	2013	72.74	POUND	0.43	
Northern anchovy	<i>Engraulis mordax</i>	2013	6.39	POUND	0.53	
Ocean sunfish	<i>Mola mola</i>	2013	639.50	POUND	0.08	
Other identified fish		2013	1.60	POUND	0.14	
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2013	8.79	POUND	0.20	
Pacific electric ray	<i>Torpedo californica</i>	2013	848.93	POUND	0.61	
Pacific hake	<i>Merluccius productus</i>	2013	2.40	POUND	0.08	
Pacific pompano	<i>Peprilus simillimus</i>	2013	114.31	POUND	0.71	
Pacific sand lance	<i>Ammodytes hexapterus</i>	2013	4.80	POUND	0.22	
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	2013	2,339.29	POUND	0.37	
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	2013	9.59	POUND	0.34	
Pacific staghorn sculpin	<i>Leptocottus armatus</i>	2013	382.10	POUND	0.23	
Pacific tom cod	<i>Microgadus proximus</i>	2013	4.00	POUND	0.08	
Pink seaperch	<i>Zalembeus rosaceus</i>	2013	15.99	POUND	0.08	
Plainfin midshipman	<i>Porichthys notatus</i>	2013	12.79	POUND	0.30	

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Poachers (unidentified)	Agonidae	2013	0.80	POUND	0.08	
Red rock crab	Cancer productus	2013	1,514.81	POUND	0.17	
Rock crabs	Decapoda	2013	415.67	POUND	0.21	
Rock sole	Paraplagusia bilineata	2013	20.78	POUND	0.15	
Sablefish - Pacific Coast	Anoplopoma fimbria	2013	4.00	POUND	0.08	
Sand sole - Pacific Coast	Psettichthys melanostictus	2013	996.34	POUND	0.60	
Sculpins (unidentified)	Cottidae	2013	371.71	POUND	0.36	
Shiner surfperch	Cymatogaster aggregata	2013	2.40	POUND	0.08	
Snailfishes (unidentified)	Liparidae	2013	7.19	POUND	0.16	
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	12,814.75	POUND	0.21	
Spotfin surfperch	Hyperprosopon anale	2013	41.57	POUND	0.28	
Starry flounder - Pacific Coast	Platichthys stellatus	2013	1,684.12	POUND	0.26	
Starry skate	Raja stellulata	2013	48.76	POUND	0.22	
Striped bass	Morone saxatilis	2013	343.73	POUND	0.08	
Thornback	Platyrrhinoidis triseriata	2013	2,772.23	POUND	0.30	
White croaker	Genyonemus lineatus	2013	657.08	POUND	0.37	
Whitebait smelt	Allosmerus elongatus	2013	1.60	POUND	0.14	
TOTAL FISHERY BYCATCH			722,416.14	POUND		
TOTAL FISHERY LANDINGS			185,149.50	POUND		
TOTAL CATCH (Bycatch + Landings)			907,565.64	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.80			
California Halibut/White Seabass and Other Species Set Gillnet (>3.5 in Mesh)						
Armed box crab	Platymera gaudichaudii	2013	942.00	INDIVIDUAL	0.51	
Bank rockfish - California	Sebastes rufus	2013	23.00	INDIVIDUAL	1.01	
Barred sand bass	Paralabrax nebulifer	2013	23.00	INDIVIDUAL	0.97	
Bat ray	Myliobatis californica	2013	873.00	INDIVIDUAL	0.37	
Bluntnose sevengill shark	Notorynchus cepedianus	2013	23.00	INDIVIDUAL	0.96	
Bocaccio - Southern Pacific Coast	Sebastes paucispinis	2013	69.00	INDIVIDUAL	0.96	
Brown smoothhound shark	Mustelus henlei	2013	1,792.00	INDIVIDUAL	0.76	
C-o (c-o turbot) sole	Pleuronichthys coenosus	2013	92.00	INDIVIDUAL	0.78	
Cabezon - Southern Pacific Coast	Scorpaenichthys marmoratus	2013	46.00	INDIVIDUAL	1.02	
California halibut	Paralichthys californicus	2013	207.00	INDIVIDUAL	0.42	
California lizardfish	Synodus lucioceps	2013	23.00	INDIVIDUAL	1.02	
California scorpionfish - Southern California	Scorpaena guttata	2013	46.00	INDIVIDUAL	1.00	
California sheephead	Semicossyphus pulcher	2013	23.00	INDIVIDUAL	1.01	
California skate	Raja inornata	2013	483.00	INDIVIDUAL	0.74	
California spiny lobster	Panulirus interruptus	2013	184.00	INDIVIDUAL	0.77	
Chinook salmon	Oncorhynchus tshawytscha	2013	184.00	INDIVIDUAL	0.60	
Crustacean (unidentified)	Crustacea	2013	528.00	INDIVIDUAL	1.01	
Curlfin sole	Pleuronichthys decurrens	2013	69.00	INDIVIDUAL	1.00	
Diamond turbot	Pleuronichthys guttulatus	2013	46.00	INDIVIDUAL	1.02	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
English sole - Pacific Coast	Parophrys vetulus	2013	299.00	INDIVIDUAL	0.61	
Fantail sole	Xystreurus liolepis	2013	115.00	INDIVIDUAL	1.01	
Flatfishes (unidentified)	Pleuronectiformes	2013	23.00	INDIVIDUAL	0.99	
Horn shark	Heterodontus francisci	2013	92.00	INDIVIDUAL	0.47	
Kelp bass	Paralabrax clathratus	2013	23.00	INDIVIDUAL	1.01	
King crab (unidentified)	Lithodidae	2013	23.00	INDIVIDUAL	0.96	
Leopard shark	Triakis semifasciata	2013	276.00	INDIVIDUAL	0.35	
Lingcod - Pacific Coast	Ophiodon elongatus	2013	92.00	INDIVIDUAL	0.76	
Longnose skate - Pacific Coast	Raja rhina	2013	1,609.00	INDIVIDUAL	0.26	
Northern kelp crab	Pugettia producta	2013	23.00	INDIVIDUAL	0.99	
Octopus (unidentified)	Octopoda	2013	115.00	INDIVIDUAL	0.80	
Pacific angel shark	Squatina californica	2013	689.00	INDIVIDUAL	0.35	
Pacific barracuda	Sphyrnaea argentea	2013	161.00	INDIVIDUAL	0.54	
Pacific chub mackerel - Pacific Coast	Scomber japonicus	2013	299.00	INDIVIDUAL	0.90	
Pacific electric ray	Torpedo californica	2013	46.00	INDIVIDUAL	0.69	
Pacific pompano	Peprilus simillimus	2013	92.00	INDIVIDUAL	0.79	
Pacific sardine - Pacific Coast	Sardinops sagax	2013	92.00	INDIVIDUAL	0.74	
Rock crabs	Decapoda	2013	4,573.00	INDIVIDUAL	0.24	
Rubberlip seaperch	Rhacochilus toxotes	2013	23.00	INDIVIDUAL	1.01	
Sand sole - Pacific Coast	Psettichthys melanostictus	2013	23.00	INDIVIDUAL	0.99	
Sea cucumbers	Holothuriidae	2013	92.00	INDIVIDUAL	0.61	
Sea stars	Asteroidea	2013	1,884.00	INDIVIDUAL	0.47	
Sea urchins	Echinoidea	2013	115.00	INDIVIDUAL	0.70	
Shovelnose guitarfish	Rhinobatos productus	2013	46.00	INDIVIDUAL	0.98	
Soupfin shark	Galeorhinus galeus	2013	391.00	INDIVIDUAL	0.47	
Spider crabs	Decapoda	2013	2,321.00	INDIVIDUAL	0.40	
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	92.00	INDIVIDUAL	0.71	
Spotfin croaker	Roncador stearnsii	2013	23.00	INDIVIDUAL	0.99	
Spotted ratfish	Hydrolagus colliciei	2013	597.00	INDIVIDUAL	0.71	
Swell shark	Cephaloscyllium ventriosum	2013	781.00	INDIVIDUAL	0.59	
Thornback	Platyrhinoidis triseriata	2013	575.00	INDIVIDUAL	0.99	
Thresher shark	Alopias vulpinus	2013	23.00	INDIVIDUAL	0.99	
Tuberculate pelagic octopus	Ocythoe tuberculata	2013	46.00	INDIVIDUAL	1.01	
Whelk (unidentified)	Buccinidae	2013	988.00	INDIVIDUAL	0.51	
White croaker	Genyonemus lineatus	2013	69.00	INDIVIDUAL	0.71	
White seabass	Atractoscion nobilis	2013	276.00	INDIVIDUAL	0.52	
TOTAL FISHERY BYCATCH			22,683.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS			238,771.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)					**	
California/Oregon Drift Gillnet (Mesh Size >14 in) for Swordfish and Thresher Shark						
Albacore - North Pacific	Thunnus alalunga	2013	59.00	INDIVIDUAL	0.82	

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Bigeye thresher	Alopias superciliosus	2013	8.00	INDIVIDUAL	0.69	
Blue shark - North Pacific	Prionace glauca	2013	371.00	INDIVIDUAL	0.29	
Bluefin tuna	Thunnus thynnus	2013	13.00	INDIVIDUAL	0.64	
Bullet mackerel	Auxis rochei	2013	325.00	INDIVIDUAL	0.67	
Louvar	Luvarus imperialis	2013	3.00	INDIVIDUAL	0.97	
Ocean sunfish	Mola mola	2013	2,938.00	INDIVIDUAL	0.31	
Oilfish	Ruvettus pretiosus	2013	3.00	INDIVIDUAL	1.00	
Opah - Pacific	Lampris guttatus	2013	5.00	INDIVIDUAL	0.71	
Other species		2013	5.00	INDIVIDUAL	0.68	
Pacific bonito	Sarda chiliensis	2013	3.00	INDIVIDUAL	1.00	
Pacific chub mackerel - Pacific Coast	Scomber japonicus	2013	67.00	INDIVIDUAL	0.95	
Pacific electric ray	Torpedo californica	2013	3.00	INDIVIDUAL	0.97	
Pacific pomfret	Brama japonica	2013	81.00	INDIVIDUAL	0.72	
Pelagic stingray	Pteroplatytrygon violacea	2013	16.00	INDIVIDUAL	0.48	
Remoras	Remora	2013	5.00	INDIVIDUAL	0.99	
Salmon shark	Lamna ditropis	2013	11.00	INDIVIDUAL	0.96	
Shortfin mako	Isurus oxyrinchus	2013	24.00	INDIVIDUAL	0.34	
Skipjack tuna	Katsuwonus pelamis	2013	129.00	INDIVIDUAL	0.57	
Smooth hammerhead	Sphyrna zygaena	2013	3.00	INDIVIDUAL	0.96	
Striped marlin	Kajikia audax	2013	3.00	INDIVIDUAL	0.98	
Tuna (unidentified)	Scombridae	2013	24.00	INDIVIDUAL	0.87	
TOTAL FISHERY BYCATCH			4,099.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS			301,433.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)				**		
California/Oregon Nearshore Rockfish						
Barnacles (unidentified)	Cirripedia	2013	11.08	POUND	0.65	
Barred sand bass	Paralabrax nebulifer	2013	7,196.70	POUND	0.22	
Bat ray	Myliobatis californica	2013	250.22	POUND	0.19	
Big skate	Raja binoculata	2013	345.13	POUND	0.14	
Black rockfish	Sebastes melanops	2013	10,328.52	POUND	0.15	
Black surfperch	Embiotoca jacksoni	2013	14,089.75	POUND	0.28	
Black-and-yellow rockfish	Sebastes chrysomelas	2013	291.13	POUND	0.39	
Blacksmith	Chromis punctipinnis	2013	268.84	POUND	0.36	
Blue rockfish	Sebastes mystinus	2013	11,833.31	POUND	0.12	
Brittle/basket star (unidentified)	Ophiuroidea	2013	23.04	POUND	0.22	
Brown box crab	Lopholithodes foraminatus	2013	149.33	POUND	0.19	
Brown irish lord sculpin	Hemilepidotus spinosus	2013	486.48	POUND	0.22	
Brown rockfish - Pacific Coast	Sebastes auriculatus	2013	4,558.44	POUND	0.22	
Brown smoothhound shark	Mustelus henlei	2013	21.57	POUND	0.14	
Buffalo sculpin	Enophrys bison	2013	1,923.14	POUND	0.22	
Butter sole	Isopsetta isolepis	2013	31.20	POUND	0.19	

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Cabezon	Scorpaenichthys marmoratus	2013	7,561.88	POUND	0.21	
Calico rockfish	Sebastes dallii	2013	65.98	POUND	0.17	
California halibut	Paralichthys californicus	2013	2.24	POUND	0.14	
California scorpionfish	Scorpaena guttata	2013	38.20	POUND	0.73	
California sheephead	Semicossyphus pulcher	2013	113,297.32	POUND	0.24	
California skate	Raja inornata	2013	683.88	POUND	0.31	
Canary rockfish	Sebastes pinniger	2013	32,395.66	POUND	0.19	
China rockfish	Sebastes nebulosus	2013	4,140.89	POUND	0.25	
Chinook salmon	Oncorhynchus tshawytscha	2013	5,291.04	POUND		
Chiton (unidentified)	Polyplacophora	2013	169.73	POUND	0.20	
Coho salmon	Oncorhynchus kisutch	2013	4,409.20	POUND		
Copper rockfish	Sebastes caurinus	2013	443.64	POUND	0.32	
Corals (unidentified)	Anthozoa	2013	2.24	POUND	0.14	
Crab (unidentified)	Brachyura	2013	0.64	POUND	0.08	
Decorator/spider crab (unidentified)	Majoidea	2013	3.12	POUND	0.20	
Dungeness crab	Cancer magister	2013	338.55	POUND	0.23	
Garibaldi	Hypsypops rubicundus	2013	2,352.15	POUND	0.34	
Gopher rockfish	Sebastes carnatus	2013	9,910.90	POUND	0.19	
Grass rockfish	Sebastes rastrelliger	2013	93.99	POUND	0.56	
Greenstriped rockfish	Sebastes elongatus	2013	52.36	POUND	0.34	
Hagfish (unidentified)	Myxinidae	2013	77.65	POUND	0.14	
Heart crab	Phyllolithodes papillosus	2013	2.11	POUND	0.07	
Horny gorgonians	Holaxonia	2013	5.27	POUND	0.07	
Jack smelt	Atherinopsis californiensis	2013	7.59	POUND	0.73	
Kelp bass	Paralabrax clathratus	2013	42,692.41	POUND	0.25	
Kelp greenling	Hexagrammos decagrammus	2013	9,676.74	POUND	0.16	
Kelp rockfish	Sebastes atrovirens	2013	737.37	POUND	0.57	
Leopard shark	Triakis semifasciata	2013	86.28	POUND	0.91	
Lingcod - Pacific Coast	Ophiodon elongatus	2013	187,894.83	POUND	0.09	
Masking crab	Loxorhynchus crispatus	2013	5.27	POUND	0.07	
Monkeyface prickleback	Cebidichthys violaceus	2013	119.36	POUND	0.15	
Nudibranch (unidentified)	Nudibranchia	2013	42.42	POUND	0.08	
Ocean whitefish	Caulolatilus princeps	2013	1,094.47	POUND	0.61	
Octopus (unidentified)	Octopoda	2013	821.27	POUND	0.22	
Olive rockfish	Sebastes serranoides	2013	799.60	POUND	0.28	
Other identified fish		2013	477.46	POUND	0.73	
Pacific halibut	Hippoglossus stenolepis	2013	3,014.26	POUND	0.19	
Pacific rock crab	Cancer antennarius	2013	1,277.25	POUND	0.52	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	2013	69.74	POUND	0.34	
Quillback rockfish	Sebastes maliger	2013	170.36	POUND	0.31	
Rainbow surfperch	Hypsurus caryi	2013	113.67	POUND	0.14	

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Red irish lord sculpin	Hemilepidotus hemilepidotus	2013	764.67	POUND	0.13	
Red rock crab	Cancer productus	2013	330.60	POUND	0.29	
Rock wrasse	Halichoeres semicinctus	2013	107.57	POUND	0.13	
Rosy rockfish	Sebastes rosaceus	2013	222.41	POUND	0.32	
Rubberlip surfperch	Rhacochilus toxotes	2013	162.53	POUND	0.10	
Sand sole - Pacific Coast	Psettichthys melanostictus	2013	6.45	POUND	0.08	
Sculpins (unidentified)	Cottidae	2013	1,857.87	POUND	0.20	
Sea anemones (unidentified)	Actiniaria	2013	116.12	POUND	0.15	
Sea cucumbers (unidentified)	Holothuroidea	2013	621.98	POUND	0.13	
Sea squirts (unidentified)	Asciacea	2013	1.05	POUND	0.07	
Sea stars	Asteroidea	2013	25,825.55	POUND	0.18	
Sea urchins	Echinoidea	2013	4.77	POUND	0.15	
Sharks (unidentified)	Elasmobranchii	2013	2,100.81	POUND	0.27	
Shelf rockfishes (other)	Sebastes	2013	343.83	POUND	0.54	
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	4,914.94	POUND	0.27	
Sponge (unidentified)	Porifera	2013	16.11	POUND	0.42	
Squarespot rockfish	Sebastes hopkinsi	2013	46.54	POUND	0.33	
Starry rockfish	Sebastes constellatus	2013	15.53	POUND	0.83	
Starry skate	Raja stellulata	2013	477.46	POUND	0.15	
Surfperch (unidentified)	Embiotocidae	2013	41.25	POUND	0.13	
Tiger rockfish	Sebastes nigrocinctus	2013	26.90	POUND	0.97	
Treefish	Sebastes serriceps	2013	1,244.02	POUND	0.36	
Tunicata	Tunicata	2013	1.93	POUND	0.08	
Vermilion rockfish	Sebastes miniatus	2013	426.06	POUND	0.54	
Widow rockfish - Pacific Coast	Sebastes entomelas	2013	56.68	POUND	0.27	
Wolf-eel	Anarrhichthys ocellatus	2013	507.02	POUND	0.26	
Worm (unidentified)		2013	0.53	POUND	0.07	
Yellow rock crab	Cancer anthonyi	2013	12.94	POUND	0.14	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2013	10,021.44	POUND	0.13	
Yellowtail rockfish	Sebastes flavidus	2013	1,541.32	POUND	0.19	
TOTAL FISHERY BYCATCH			534,063.75	POUND		
TOTAL FISHERY LANDINGS			1,196,650.35	POUND		
TOTAL CATCH (Bycatch + Landings)			1,730,714.10	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.31			
Washington/Oregon/California Pink Shrimp						
Aleutian skate	Bathyraja aleutica	2013	1.18	POUND	0.03	
American shad	Alosa sapidissima	2013	20.32	POUND	0.03	
Anchovy (unidentified)	Engraulidae	2013	369.13	POUND	0.20	
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2013	41,370.35	POUND	0.10	
Barnacles (unidentified)	Cirripedia	2013	3.72	POUND	0.51	
Big skate	Raja binoculata	2013	3.73	POUND	0.05	

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COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Bigfin eelpout	Lycodes cortezianus	2013	2,963.86	POUND	0.24	
Bivalves (unidentified)	Bivalvia	2013	1.86	POUND	0.02	
Blackedge poacher	Xeneretmus latifrons	2013	464.69	POUND	0.17	
Bluebarred prickleback	Plectobranthus evides	2013	40.31	POUND	0.28	
Brittle/basket star (unidentified)	Ophiuroidea	2013	45.14	POUND	0.18	
Brown irish lord sculpin	Hemilepidotus spinosus	2013	9.87	POUND	0.55	
Canary rockfish	Sebastes pinniger	2013	252.60	POUND	0.02	
Chilipepper	Sebastes goodei	2013	517.50	POUND	0.17	
Crinoids (unidentified)	Crinoidea	2013	4.83	POUND	0.17	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2013	8,091.43	POUND	0.07	
Decorator/spider crab (unidentified)	Majoidea	2013	6.33	POUND	0.29	
Dover sole - Pacific Coast	Microstomus pacificus	2013	5,786.63	POUND	0.14	
Dungeness crab	Cancer magister	2013	22.92	POUND	0.03	
Dwarf wrymouth	Cryptacanthodes aleutensis	2013	32.44	POUND	0.26	
Eelpouts	Zoarcidae	2013	31,771.27	POUND	0.10	
English sole - Pacific Coast	Parophrys vetulus	2013	53.16	POUND	0.31	
Eulachon	Thaleichthys pacificus	2013	1,641,155.48	POUND		
Flatfishes (unidentified)	Pleuronectiformes	2013	7,900.91	POUND	0.28	
Flathead sole	Hippoglossoides elassodon	2013	2,288.49	POUND	0.14	
Gopher rockfish	Sebastes carnatus	2013	1.96	POUND	0.02	
Greenstriped rockfish	Sebastes elongatus	2013	969.24	POUND	0.14	
Gunnels	Pholidae	2013	2.93	POUND	0.03	
Hagfish (unidentified)	Myxinidae	2013	5,727.69	POUND	0.10	
Halfbanded rockfish	Sebastes semicinctus	2013	5.44	POUND	0.21	
Harlequin rockfish	Sebastes variegatus	2013	0.47	POUND	0.02	
Hatchetfish (unidentified)	Sternoptychidae	2013	6.80	POUND	0.21	
Hermit crab (unidentified)	Paguroidea	2013	0.47	POUND	0.02	
Invertebrates (unidentified)		2013	39.03	POUND	0.20	
Irregular echinoids	Echinoidea	2013	684.99	POUND	0.15	
Isopod (unidentified)	Isopoda	2013	40.35	POUND	0.18	
Jellyfish (unidentified)	Scyphozoa	2013	9,195.00	POUND	0.81	
Kelp greenling	Hexagrammos decagrammus	2013	0.47	POUND	0.02	
Lanternfishes	Myctophidae	2013	147.98	POUND	0.14	
Lightfish (unidentified)	Phosichthyidae	2013	2.37	POUND	0.03	
Lingcod - Pacific Coast	Ophiodon elongatus	2013	241.78	POUND	0.19	
Longnose skate - Pacific Coast	Raja rhina	2013	616.81	POUND	0.19	
Medusafish	Icichthys lockingtoni	2013	2.42	POUND	0.20	
Non-eulachon smelt (unidentified)	Osmeriformes	2013	88,420.74	POUND	0.21	
Non-humboldt squid (unidentified)	Teuthida	2013	26,840.02	POUND	0.12	
Northern anchovy	Engraulis mordax	2013	10.43	POUND	0.43	
Northern spearnose poacher	Agonopsis vulsa	2013	7.26	POUND	0.66	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Nudibranch (unidentified)	Nudibranchia	2013	75.28	POUND	0.14	
Octopus (unidentified)	Octopoda	2013	893.33	POUND	0.24	
Other identified fish		2013	4,380.10	POUND	0.44	
Pacific argentine	Argentina sialis	2013	21.32	POUND	0.02	
Pacific cod - Pacific Coast	Gadus macrocephalus	2013	1.06	POUND	0.09	
Pacific hagfish	Eptatretus stoutii	2013	680.12	POUND	0.25	
Pacific hake	Merluccius productus	2013	65,819.30	POUND	0.65	
Pacific herring	Clupea pallasii	2013	1,676.57	POUND	0.22	
Pacific lamprey	Lampetra tridentata	2013	31.23	POUND	0.47	
Pacific ocean perch - Pacific Coast	Sebastes alutus	2013	518.38	POUND	0.14	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	2013	8,416.44	POUND	0.14	
Pacific saury	Cololabis saira	2013	0.99	POUND	0.03	
Pacific tom cod	Microgadus proximus	2013	13.41	POUND	0.02	
Peanut worm (unidentified)	Sipuncula	2013	8.54	POUND	0.37	
Petrale sole - Pacific Coast	Eopsetta jordani	2013	2,941.42	POUND	0.12	
Poachers (unidentified)	Agonidae	2013	2,253.12	POUND	0.10	
Prickleback (unidentified)	Stichaeidae	2013	158.28	POUND	0.21	
Red brotula	Brosmophycis marginata	2013	1.77	POUND	0.02	
Red irish lord sculpin	Hemilepidotus hemilepidotus	2013	40.69	POUND	0.44	
Redbanded rockfish	Sebastes babcocki	2013	62.75	POUND	0.29	
Rex sole - Pacific Coast	Glyptocephalus zachirus	2013	43,938.57	POUND	0.08	
Rock sole	Paraplagusia bilineata	2013	234.74	POUND	0.29	
Sablefish - Pacific Coast	Anoplopoma fimbria	2013	136.48	POUND	0.34	
Sandpaper skate	Bathyraja interrupta	2013	51.01	POUND	0.73	
Sculpins (unidentified)	Cottidae	2013	63.79	POUND	0.16	
Sea anemones (unidentified)	Actiniaria	2013	1,563.51	POUND	0.15	
Sea cucumbers (unidentified)	Holothuroidea	2013	1,082.74	POUND	0.11	
Sea snail (unidentified)		2013	37.15	POUND	0.54	
Sea squirts (unidentified)	Asciacea	2013	77.86	POUND	0.16	
Sea stars	Asteroidea	2013	1,024.42	POUND	0.12	
Sea urchins	Echinoidea	2013	1,127.35	POUND	0.18	
Sea whips	Pennatulacea	2013	22.93	POUND	0.24	
Sharpchin rockfish	Sebastes zacentrus	2013	123.69	POUND	0.07	
Sharpnose sculpin	Clinocottus acuticeps	2013	1.86	POUND	0.03	
Shelf rockfishes (other)	Sebastes	2013	1,027.51	POUND	0.44	
Shiner surfperch	Cymatogaster aggregata	2013	32.40	POUND	0.02	
Shortbelly rockfish - Pacific Coast	Sebastes jordani	2013	7,698.79	POUND	0.25	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2013	179.23	POUND	0.44	
Shrimp (unidentified)	Decapoda	2013	838,323.96	POUND	0.14	
Slender sole	Lyopsetta exilis	2013	213,322.61	POUND	0.06	
Slim sculpin	Radulinus asprellus	2013	100.93	POUND	0.24	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Smelt (unidentified)	Osmeriformes	2013	43,158.64	POUND	0.21	
Snailfishes (unidentified)	Liparidae	2013	29.45	POUND	0.28	
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	53.45	POUND	0.36	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2013	1,080.97	POUND	0.11	
Spotted ratfish	Hydrolagus colliei	2013	587.69	POUND	0.78	
Squat lobster (unidentified)	Anomura	2013	52.23	POUND	0.49	
Squids	Teuthida	2013	2,228.48	POUND	0.09	
Stripetail rockfish	Sebastes saxicola	2013	655.08	POUND	0.18	
Surf smelt	Hypomesus pretiosus	2013	4.10	POUND	0.41	
Surfperch (unidentified)	Embiotocidae	2013	15.46	POUND	0.31	
Threadfin sculpin	Icelinus filamentosus	2013	15.08	POUND	0.02	
Tiger rockfish	Sebastes nigrocinctus	2013	1.06	POUND	0.05	
Tunicata	Tunicata	2013	761.09	POUND	0.23	
Vermilion rockfish	Sebastes miniatus	2013	0.93	POUND	0.03	
Viperfishes (unidentified)	Chauliodontinae	2013	7.26	POUND	0.30	
Walleye pollock	Theragra chalcogramma	2013	2.76	POUND	0.03	
Whitebait smelt	Allosmerus elongatus	2013	70,161.88	POUND	0.17	
Whitebarred prickleback	Poroclinus rothrocki	2013	192.14	POUND	0.09	
Worm (unidentified)		2013	23.77	POUND	0.26	
Wrymouth (unidentified)	Cryptacanthodes	2013	13.91	POUND	0.36	
Yellow rock crab	Cancer anthonyi	2013	35.91	POUND	0.03	
Yellowtail rockfish	Sebastes flavidus	2013	21.09	POUND	0.39	
TOTAL FISHERY BYCATCH			3,193,410.86	POUND		
TOTAL FISHERY LANDINGS			69,866,389.93	POUND		
TOTAL CATCH (Bycatch + Landings)			73,059,800.79	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.04			
West Coast Groundfish Non-Trawl Gear: Limited Entry Sablefish-Endorsed Fixed Gear						
Aleutian skate	Bathyraja aleutica	2013	399.93	POUND	0.36	
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2013	50,401.96	POUND	0.20	
Aurora rockfish	Sebastes aurora	2013	35.77	POUND	0.77	
Big skate	Raja binoculata	2013	148.39	POUND	0.85	
Black skate	Bathyraja trachura	2013	2,009.04	POUND	0.23	
Blackgill rockfish	Sebastes melanostomus	2013	4,029.81	POUND	0.20	
Blue shark	Prionace glauca	2013	19,912.29	POUND	0.15	
Brachiopod (unidentified)	Brachiopoda	2013	5.99	POUND	0.33	
Brittle/basket star (unidentified)	Ophiuroidea	2013	1.55	POUND	0.05	
Brown cat shark	Apristurus brunneus	2013	3,923.22	POUND	0.14	
California grenadier	Nezumia stelgidolepis	2013	19.99	POUND	0.10	
Canary rockfish	Sebastes pinniger	2013	175.75	POUND	0.05	
Corals (unidentified)	Anthozoa	2013	0.69	POUND	0.13	
Cowcod	Sebastes levis	2013	59.16	POUND	0.05	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Crinoids (unidentified)	Crinoidea	2013	1.55	POUND	0.33	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2013	1,283.36	POUND	0.34	
Deepsea sole	Microstomus bathybius	2013	12.50	POUND	0.13	
Dover sole - Pacific Coast	Microstomus pacificus	2013	2,356.30	POUND	0.13	
Filetail cat shark	Parmaturus xaniurus	2013	169.54	POUND	0.27	
Giant grenadier	Albatrossia pectoralis	2013	15,517.79	POUND	0.18	
Giant wrymouth	Cryptacanthodes giganteus	2013	34.59	POUND	0.05	
Greenstriped rockfish	Sebastes elongatus	2013	237.66	POUND	0.54	
Hagfish (unidentified)	Myxinidae	2013	221.96	POUND	0.15	
Hair crab	Paralomis multispina	2013	5.99	POUND	0.05	
Horny gorgonians	Holaxonia	2013	97.91	POUND	0.34	
Invertebrates (unidentified)		2013	29.05	POUND	0.67	
Lingcod - Pacific Coast	Ophiodon elongatus	2013	2,121.03	POUND	0.29	
Longnose cat shark	Apristurus kampae	2013	1,306.57	POUND	0.18	
Longnose skate - Pacific Coast	Raja rhina	2013	59,082.94	POUND	0.11	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2013	781.60	POUND	0.37	
Octopus (unidentified)	Octopoda	2013	54.44	POUND	0.19	
Pacific cod - Pacific Coast	Gadus macrocephalus	2013	200.01	POUND	0.49	
Pacific flatnose	Antimora microlepis	2013	709.16	POUND	0.36	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	2013	59,897.31	POUND	0.22	
Pacific hagfish	Eptatretus stoutii	2013	17.69	POUND	0.26	
Pacific hake	Merluccius productus	2013	98.01	POUND	0.25	
Pacific halibut	Hippoglossus stenolepis	2013	48,833.31	POUND	0.21	
Pacific ocean perch - Pacific Coast	Sebastes alutus	2013	74.95	POUND	0.60	
Pacific sleeper shark	Somniosus pacificus	2013	33,517.54	POUND	0.36	
Petrable sole - Pacific Coast	Eopsetta jordani	2013	2,167.18	POUND	0.23	
Redbanded rockfish	Sebastes babcocki	2013	8,564.89	POUND	0.22	
Rex sole - Pacific Coast	Glyptocephalus zachirus	2013	2.22	POUND	0.05	
Rosethorn rockfish	Sebastes helvomaculatus	2013	1,068.14	POUND	0.18	
Rosy rockfish	Sebastes rosaceus	2013	41.20	POUND	0.27	
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2013	27,854.29	POUND	0.18	b
Sablefish - Pacific Coast	Anoplopoma fimbria	2013	632,188.64	POUND	0.12	
Sandpaper skate	Bathyraja interrupta	2013	896.49	POUND	0.17	
Scarlet king crab	Lithodes couesi	2013	9.27	POUND	0.05	
Sea anemones (unidentified)	Actiniaria	2013	372.00	POUND	0.56	
Sea cucumbers (unidentified)	Holothuroidea	2013	17.40	POUND	0.17	
Sea fans		2013	1.02	POUND	0.05	
Sea pens	Pennatulacea	2013	13.04	POUND	0.45	
Sea snail (unidentified)		2013	26.31	POUND	0.24	
Sea stars	Asteroidea	2013	2,188.50	POUND	0.18	
Sea urchins	Echinoidea	2013	29.33	POUND	0.30	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sharks (unidentified)	Elasmobranchii	2013	1,213.80	POUND	0.34	
Shortraker rockfish	Sebastes borealis	2013	2,301.69	POUND	0.32	
Shortraker/rougheye rockfish	Sebastes	2013	12,511.19	POUND	0.29	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2013	7,370.70	POUND	0.15	
Silvergray rockfish	Sebastes brevispinis	2013	44.57	POUND	0.82	
Skilfish	Erilepis zonifer	2013	387.64	POUND	0.10	
Soft coral	Alcyonacea	2013	29.27	POUND	0.31	
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	277,828.55	POUND	0.17	
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2013	31.27	POUND	0.58	
Sponge (unidentified)	Porifera	2013	58.54	POUND	0.59	
Spongy gorgonians	Scleraxonia	2013	9.58	POUND	0.17	
Spotted ratfish	Hydrolagus colliei	2013	5,483.13	POUND	0.18	
Tanneri tanner crab	Chionoecetes tanneri	2013	241.43	POUND	0.16	
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2013	594.66	POUND	0.44	
Yellowtail rockfish	Sebastes flavidus	2013	60.98	POUND	0.90	
TOTAL FISHERY BYCATCH			1,291,393.22	POUND		
TOTAL FISHERY LANDINGS			2,582,620.43	POUND		
TOTAL CATCH (Bycatch + Landings)			3,874,013.65	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.33			
West Coast Groundfish Non-Trawl Gear: Non-Endorsed Fixed Gear						
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2013	3,979.25	POUND	0.31	
Aurora rockfish	Sebastes aurora	2013	80.49	POUND	0.40	
Barred sand bass	Paralabrax nebulifer	2013	677.78	POUND	0.13	
Big skate	Raja binoculata	2013	11,573.95	POUND	0.22	
Black hagfish	Eptatretus deani	2013	566.36	POUND	0.14	
Black skate	Bathyraja trachura	2013	19,635.41	POUND	0.29	
Black surfperch	Embiotoca jacksoni	2013	33.55	POUND	0.13	
Blackgill rockfish	Sebastes melanostomus	2013	1,003.40	POUND	0.35	
Blue shark	Prionace glauca	2013	2,302.55	POUND	0.72	
Bocaccio	Sebastes paucispinis	2013	39.50	POUND	0.78	
Brittle/basket star (unidentified)	Ophiuroidea	2013	1.34	POUND	0.13	
Brown box crab	Lopholithodes foraminatus	2013	95.29	POUND	0.28	
Brown cat shark	Apristurus brunneus	2013	17,900.03	POUND	0.14	
Cabezon	Scorpaenichthys marmoratus	2013	26.84	POUND	0.13	
California grenadier	Nezumia stelgidolepis	2013	6,836.57	POUND	0.47	
California king crab	Paralithodes californiensis	2013	38.93	POUND	0.13	
California sheephead	Semicossyphus pulcher	2013	3,043.70	POUND	0.13	
California slickhead	Alepocephalus tenebrosus	2013	994.69	POUND	0.23	
Chilipepper	Sebastes goodei	2013	143.94	POUND	0.30	
Copper rockfish	Sebastes caurinus	2013	284.98	POUND	0.51	
Crab (unidentified)	Brachyura	2013	8.90	POUND	0.17	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Crinoids (unidentified)	Crinoidea	2013	1.34	POUND	0.13	
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2013	52.34	POUND	0.18	
Decorator/spider crab (unidentified)	Majoidea	2013	13.61	POUND	0.17	
Deepsea skate	Bathyraja abyssicola	2013	440.49	POUND	0.13	
Deepsea sole	Microstomus bathybius	2013	140.38	POUND	0.13	
Dover sole - Pacific Coast	Microstomus pacificus	2013	6,444.98	POUND	0.20	
Filetail cat shark	Parmaturus xaniurus	2013	2,205.78	POUND	0.23	
Flag rockfish	Sebastes rubrivinctus	2013	487.12	POUND	0.78	
Garibaldi	Hypsypops rubicundus	2013	60.40	POUND	0.13	
Giant grenadier	Albatrossia pectoralis	2013	31,999.68	POUND	0.21	
Gopher rockfish	Sebastes carnatus	2013	33.55	POUND	0.13	
Greenspotted rockfish	Sebastes chlorostictus	2013	144.82	POUND	0.78	
Greenstriped rockfish	Sebastes elongatus	2013	26.17	POUND	0.29	
Grenadiers	Macrouridae	2013	14,487.18	POUND	0.87	
Hagfish (unidentified)	Myxinidae	2013	638.50	POUND	0.14	
Halfmoon	Medialuna californiensis	2013	20.13	POUND	0.13	
Hermit crab (unidentified)	Paguroidea	2013	1.34	POUND	0.13	
Invertebrates (unidentified)		2013	1,369.77	POUND	0.16	
Kelp bass	Paralabrax clathratus	2013	1,442.80	POUND	0.13	
Lingcod - Pacific Coast	Ophiodon elongatus	2013	373.92	POUND	0.14	
Longnose cat shark	Apristurus kampae	2013	3,437.58	POUND	0.37	
Longnose skate - Pacific Coast	Raja rhina	2013	39,350.75	POUND	0.21	
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2013	16,672.65	POUND	0.18	
Mackerel (unidentified)	Scombridae	2013	44.49	POUND	0.13	
Ocean whitefish	Caulolatilus princeps	2013	67.11	POUND	0.13	
Pacific black dogfish	Centroscyllium nigrum	2013	1,911.71	POUND	0.54	
Pacific chub mackerel	Scomber japonicus	2013	3,592.21	POUND	0.46	
Pacific dogfish shark	Squalus suckleyi	2013	758.33	POUND	0.35	
Pacific flatnose	Antimora microlepis	2013	12,187.15	POUND	0.28	
Pacific grenadier - Pacific Coast	Coryphaenoides acrolepis	2013	323,487.54	POUND	0.28	
Pacific hagfish	Eptatretus stoutii	2013	8.90	POUND	0.24	
Pacific hake	Merluccius productus	2013	819.85	POUND	0.36	
Pacific halibut	Hippoglossus stenolepis	2013	4,151.99	POUND	0.42	
Pacific sanddab - Pacific Coast	Citharichthys sordidus	2013	26.33	POUND	0.23	
Pacific sleeper shark	Somniosus pacificus	2013	42,019.00	POUND	0.45	
Redbanded rockfish	Sebastes babcocki	2013	483.19	POUND	0.25	
Redstripe rockfish	Sebastes proriger	2013	7.48	POUND	0.14	
Rosethorn rockfish	Sebastes helvomaculatus	2013	4.99	POUND	0.14	
Sablefish - Pacific Coast	Anoplopoma fimbria	2013	195,098.78	POUND	0.21	
Sandpaper skate	Bathyraja interrupta	2013	86.36	POUND	0.30	
Scarlet king crab	Lithodes couesi	2013	5.56	POUND	0.13	

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sculpins (unidentified)	Cottidae	2013	194.61	POUND	0.20	
Sea anemones (unidentified)	Actiniaria	2013	604.00	POUND	0.24	
Sea cucumbers (unidentified)	Holothuroidea	2013	1,670.93	POUND	0.16	
Sea pens	Pennatulacea	2013	16.69	POUND	0.16	
Sea stars	Asteroidea	2013	1,287.36	POUND	0.28	
Sea urchins	Echinoidea	2013	6,627.48	POUND	0.34	
Sea whips	Pennatulacea	2013	190.66	POUND	0.23	
Sharks (unidentified)	Elasmobranchii	2013	70,378.15	POUND	0.23	
Sharpchin rockfish	Sebastes zacentrus	2013	16.20	POUND	0.40	
Shelf rockfishes (other)	Sebastes	2013	2.49	POUND	0.14	
Shortraker rockfish	Sebastes borealis	2013	42.16	POUND	0.10	
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2013	35,832.76	POUND	0.17	
Shrimp (unidentified)	Decapoda	2013	1.34	POUND	0.83	
Skates (unidentified)	Rajidae	2013	224.69	POUND	0.31	
Snailfishes (unidentified)	Liparidae	2013	44.49	POUND	0.13	
Snipe eels (unidentified)	Nemichthyidae	2013	5.56	POUND	0.13	
Soft coral	Alcyonacea	2013	1.92	POUND	0.30	
Speckled rockfish	Sebastes ovalis	2013	65.83	POUND	0.78	
Spiky king crab	Neolithodes diomedea	2013	202.45	POUND	0.13	
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	69,084.45	POUND	0.63	
Spiny lithode crab	Acantholithodes hispidus	2013	236.22	POUND	0.26	
Sponge (unidentified)	Porifera	2013	18,884.06	POUND	0.15	
Spotted ratfish	Hydrolagus colliei	2013	876.98	POUND	0.21	
Squarespot rockfish	Sebastes hopkinsi	2013	13.17	POUND	0.78	
Squids	Teuthida	2013	88.99	POUND	0.13	
Starry rockfish	Sebastes constellatus	2013	223.81	POUND	0.78	
Tanneri tanner crab	Chionoecetes tanneri	2013	493.79	POUND	0.21	
Treefish	Sebastes serriceps	2013	73.82	POUND	0.13	
Tunicata	Tunicata	2013	20.13	POUND	0.55	
Vermilion rockfish	Sebastes miniatus	2013	2,633.09	POUND	0.78	
TOTAL FISHERY BYCATCH			983,911.98	POUND		
TOTAL FISHERY LANDINGS			2,549,316.10	POUND		
TOTAL CATCH (Bycatch + Landings)			3,533,228.08	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.28			
West Coast Limited Entry Bottom Trawl; Fixed Gear						
Abyssal grenadier	Coryphaenoides armatus	2013	10.05	POUND		
Aleutian skate	Bathyraja aleutica	2013	22.10	POUND		
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2013	4,396.47	POUND		
Aurora rockfish	Sebastes aurora	2013	106.27	POUND		
Bamboo corals		2013	0.55	POUND		
Big skate	Raja binoculata	2013	26.89	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Black coral	Antipatharia	2013		1.25		POUND
Black skate	Bathyraja trachura	2013		269.37		POUND
Blackgill rockfish	Sebastes melanostomus	2013		297.77		POUND
Blob sculpin	Psychrolutes phricus	2013		28.53		POUND
Blue shark	Prionace glauca	2013		500.66		POUND
Bluntnose sixgill shark	Hexanchus griseus	2013		58.51		POUND
Brittle/basket star (unidentified)	Ophiuroidea	2013		8.79		POUND
Brown box crab	Lopholithodes foraminatus	2013		160.45		POUND
Brown cat shark	Apristurus brunneus	2013		142.36		POUND
California grenadier	Nezumia stelgidolepis	2013		460.31		POUND
California slickhead	Alepocephalus tenebrosus	2013		2.05		POUND
Cat shark (unidentified)	Scyliorhinidae	2013		12.95		POUND
Crab (unidentified)	Brachyura	2013		6.01		POUND
Crinoids (unidentified)	Crinoidea	2013		1.00		POUND
Decorator/spider crab (unidentified)	Majoidea	2013		39.16		POUND
Deepsea sole	Microstomus bathybius	2013		22.76		POUND
Dover sole - Pacific Coast	Microstomus pacificus	2013		198.43		POUND
Dungeness crab	Cancer magister	2013		784.71		POUND
Eelpouts	Zoarcidae	2013		6.21		POUND
Filetail cat shark	Parmaturus xaniurus	2013		576.24		POUND
Flat-legged spider crab	Paralomis verrilli	2013		69.63		POUND
Giant grenadier	Albatrossia pectoralis	2013		2,849.79		POUND
Giant wrymouth	Cryptacanthodes giganteus	2013		8.51		POUND
Greenstriped rockfish	Sebastes elongatus	2013		1.00		POUND
Grenadiers	Macrouridae	2013		2,270.10		POUND
Hagfish (unidentified)	Myxinidae	2013		17.46		POUND
Hair crab	Paralomis multispina	2013		796.93		POUND
Hermit crab (unidentified)	Paguroidea	2013		0.50		POUND
Horny gorgonians	Holaxonia	2013		1.35		POUND
Invertebrates (unidentified)		2013		31.08		POUND
Irregular echinoids	Echinoidea	2013		134.95		POUND
Jellyfish (unidentified)	Scyphozoa	2013		10.66		POUND
Lingcod - Pacific Coast	Ophiodon elongatus	2013		631.59		POUND
Longnose cat shark	Apristurus kampae	2013		168.15		POUND
Longnose skate - Pacific Coast	Raja rhina	2013		6,987.17		POUND
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2013		547.58		POUND
Mollusk (unidentified)	Mollusca	2013		2.65		POUND
Monkeyface pricklyback	Cebidichthys violaceus	2013		10.91		POUND
Non-humboldt squid (unidentified)	Teuthida	2013		45.60		POUND
Octopus (unidentified)	Octopoda	2013		201.55		POUND
Pacific flatnose	Antimora microlepis	2013		100.14		POUND

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific grenadier - Pacific Coast	<i>Coryphaenoides acrolepis</i>	2013	2,291.19	POUND		
Pacific hagfish	<i>Eptatretus stoutii</i>	2013	1.00	POUND		
Pacific hake	<i>Merluccius productus</i>	2013	157.12	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2013	8,761.91	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2013	1.00	POUND		
Pacific saury	<i>Cololabis saira</i>	2013	0.30	POUND		
Pacific sleeper shark	<i>Somniosus pacificus</i>	2013	1,569.75	POUND		
Pelagic thresher	<i>Alopias pelagicus</i>	2013	3,492.95	POUND		
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2013	1,233.55	POUND		
Ragfish	<i>Icosteus aenigmaticus</i>	2013	32.78	POUND		
Redbanded rockfish	<i>Sebastes babcocki</i>	2013	38.50	POUND		
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	2013	2.30	POUND		
Rosethorn rockfish	<i>Sebastes helvomaculatus</i>	2013	3.50	POUND		
Rougheye rockfish - Pacific Coast	<i>Sebastes aleutianus</i>	2013	98.76	POUND		b
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2013	25,275.86	POUND		
Sand sole - Pacific Coast	<i>Psettichthys melanostictus</i>	2013	49.45	POUND		
Sandpaper skate	<i>Bathyraja interrupta</i>	2013	52.20	POUND		
Scarlet king crab	<i>Lithodes couesi</i>	2013	257.10	POUND		
Sea anemones (unidentified)	<i>Actiniaria</i>	2013	132.83	POUND		
Sea cucumbers (unidentified)	<i>Holothuroidea</i>	2013	371.00	POUND		
Sea fans		2013	0.80	POUND		
Sea pens	<i>Pennatulacea</i>	2013	5.55	POUND		
Sea snail (unidentified)		2013	230.45	POUND		
Sea squirts (unidentified)	<i>Ascidacea</i>	2013	3.05	POUND		
Sea stars	<i>Asteroidea</i>	2013	348.40	POUND		
Sea urchins	<i>Echinoidea</i>	2013	5,594.25	POUND		
Sea whips	<i>Pennatulacea</i>	2013	12.28	POUND		
Sen pen/pansies (unidentified)	<i>Pennatulacea</i>	2013	0.10	POUND		
Sharks (unidentified)	<i>Elasmobranchii</i>	2013	70.03	POUND		
Shortraker rockfish	<i>Sebastes borealis</i>	2013	39.97	POUND		
Shortraker/rougheye rockfish	<i>Sebastes</i>	2013	124.75	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2013	486.53	POUND		
Slender sole	<i>Lyopsetta exilis</i>	2013	0.20	POUND		
Snailfishes (unidentified)	<i>Liparidae</i>	2013	47.80	POUND		
Snipe eels (unidentified)	<i>Nemichthyidae</i>	2013	0.10	POUND		
Soft coral	<i>Alcyonacea</i>	2013	0.40	POUND		
Spiky king crab	<i>Neolithodes diomedea</i>	2013	0.26	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2013	50,102.71	POUND		
Spiny king crab	<i>Paralithodes rathbuni</i>	2013	0.95	POUND		
Spiny lithode crab	<i>Acantholithodes hispidus</i>	2013	13.91	POUND		
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2013	2.15	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Sponge (unidentified)	Porifera	2013	15.16	POUND		
Spongy gorgonians	Scleraxonia	2013	1.95	POUND		
Spotted ratfish	Hydrolagus colliciei	2013	48.80	POUND		
Squat lobster (unidentified)	Anomura	2013	0.75	POUND		
Squids	Teuthida	2013	0.25	POUND		
Tanner crabs	Chionoecetes	2013	4,774.47	POUND		
Tanneri tanner crab	Chionoecetes tanneri	2013	7,499.91	POUND		
Tube shoulders (unidentified)	Platyroctidae	2013	0.75	POUND		
Tunicata	Tunicata	2013	47.44	POUND		
Viperfishes (unidentified)	Chauliodontinae	2013	0.05	POUND		
Wrymouth (unidentified)	Cryptacanthodes	2013	10.60	POUND		
TOTAL FISHERY BYCATCH			136,334.97	POUND		
TOTAL FISHERY LANDINGS			1,178,606.28	POUND		
TOTAL CATCH (Bycatch + Landings)			1,314,941.25	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.10			
West Coast Limited Entry Bottom Trawl; Groundfish Bottom and Midwater Trawl						
Aleutian skate	Bathyraja aleutica	2013	3,702.66	POUND		
American shad	Alosa sapidissima	2013	8,294.24	POUND		
Anchovy (unidentified)	Engraulidae	2013	13.68	POUND		
Angulatus tanner crab	Chionoecetes angulatus	2013	9.46	POUND		
Aplacophora (unidentified)	Aplacophora	2013	0.81	POUND		
Armed box crab	Platymera gaudichaudii	2013	523.38	POUND		
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2013	996,041.03	POUND		
Aurora rockfish	Sebastes aurora	2013	16,016.91	POUND		
Bamboo corals		2013	5.32	POUND		
Bank rockfish	Sebastes rufus	2013	101.95	POUND		
Barnacles (unidentified)	Cirripecta	2013	0.51	POUND		
Basket starfish	Gorgonocephalus eucnemis	2013	6.28	POUND		
Bat ray	Myliobatis californica	2013	2,051.71	POUND		
Big skate	Raja binoculata	2013	66,649.08	POUND		
Bigeye starnose poacher	Bathyragonus pentacanthus	2013	0.31	POUND		
Bigfin eelpout	Lycodes cortezianus	2013	4,491.62	POUND		
Bivalves (unidentified)	Bivalvia	2013	17.87	POUND		
Black coral	Antipatharia	2013	112.01	POUND		
Black eelpout	Lycodes diapterus	2013	76.18	POUND		
Black hagfish	Eptatretus deani	2013	0.25	POUND		
Black rockfish	Sebastes melanops	2013	4.39	POUND		
Black skate	Bathyraja trachura	2013	39,701.53	POUND		
Blackbelly eelpout	Lycodes pacificus	2013	2.32	POUND		
Blackgill rockfish	Sebastes melanostomus	2013	743.41	POUND		
Blacktail snailfish	Careproctus melanurus	2013	3.14	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Blob sculpin	Psychrolutes phrictus	2013	185.15	POUND		
Blue shark	Prionace glauca	2013	0.93	POUND		
Bluntnose sixgill shark	Hexanchus griseus	2013	69.17	POUND		
Bocaccio	Sebastes paucispinis	2013	22.35	POUND		
Brachiopod (unidentified)	Brachiopoda	2013	0.10	POUND		
Brittle/basket star (unidentified)	Ophiuroidea	2013	27.09	POUND		
Brown box crab	Lopholithodes foraminatus	2013	641.98	POUND		
Brown cat shark	Apristurus brunneus	2013	79,475.52	POUND		
Brown rockfish - Pacific Coast	Sebastes auriculatus	2013	0.87	POUND		
Brown smoothhound shark	Mustelus henlei	2013	815.39	POUND		
Buffalo sculpin	Enophrys bison	2013	50.62	POUND		
Bull sculpin	Enophrys taurina	2013	0.88	POUND		
Butter sole	Isopsetta isolepis	2013	355.56	POUND		
Cabezon	Scorpaenichthys marmoratus	2013	1.82	POUND		
California grenadier	Nezumia stelgidolepis	2013	1,633.16	POUND		
California halibut	Paralichthys californicus	2013	17.15	POUND		
California king crab	Paralithodes californiensis	2013	68.85	POUND		
California skate	Raja inornata	2013	888.25	POUND		
California slickhead	Alepocephalus tenebrosus	2013	31,790.33	POUND		
Canary rockfish	Sebastes pinniger	2013	154.77	POUND		
Cancer crab (unidentified)	Cancer	2013	1.88	POUND		
Cat shark (unidentified)	Scyliorhinidae	2013	6,585.16	POUND		
Chilipepper	Sebastes goodei	2013	162,820.05	POUND		
Chinook salmon	Oncorhynchus tshawytscha	2013	1,763.68	POUND		
Chiton (unidentified)	Polyplacophora	2013	5.64	POUND		
Chum salmon	Oncorhynchus keta	2013	13.23	POUND		
Coho salmon	Oncorhynchus kisutch	2013	132.28	POUND		
Copper rockfish	Sebastes caurinus	2013	10.46	POUND		
Corals (unidentified)	Anthozoa	2013	2.17	POUND		
Cowcod	Sebastes levis	2013	4.58	POUND		
Crab (unidentified)	Brachyura	2013	654.57	POUND		
Crinoids (unidentified)	Crinoidea	2013	0.05	POUND		
Croaker (unidentified)	Sciaenidae	2013	12.25	POUND		
Curlfin sole	Pleuronichthys decurrens	2013	1,824.34	POUND		
Cusk-eel (unidentified)	Ophidiidae	2013	1.67	POUND		
Daggertooth	Anotopterus pharao	2013	4.11	POUND		
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2013	5,131.83	POUND		
Decorator/spider crab (unidentified)	Majoidea	2013	8.93	POUND		
Deep-sea rock crab	Glyptolithodes cristatipes	2013	2.43	POUND		
Deep-sea spider crab	Paralomis manningi	2013	5.10	POUND		
Deepsea skate	Bathyraja abyssicola	2013	796.25	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Deepsea smelt (unidentified)	Bathylagidae	2013		0.66		POUND
Deepsea sole	Microstomus bathybius	2013		39,909.19		POUND
Dogfish shark (unidentified)	Squalidae	2013		53.34		POUND
Dover sole - Pacific Coast	Microstomus pacificus	2013		230,189.64		POUND
Dragonfishes (unidentified)	Melanostomiinae	2013		1.57		POUND
Dreamer (unidentified)	Oneirodidae	2013		0.51		POUND
Duckbill eels	Nettastomatidae	2013		1.17		POUND
Dungeness crab	Cancer magister	2013		327,199.50		POUND
Echinoderm (unidentified)	Echinodermata	2013		0.01		POUND
Eelpouts	Zoarcidae	2013		53,828.77		POUND
English sole - Pacific Coast	Parophrys vetulus	2013		51,420.42		POUND
Eulachon	Thaleichthys pacificus	2013		85.42		POUND
Fangtooth	Anoplogaster cornuta	2013		0.71		POUND
Filamented grenadier	Coryphaenoides filifer	2013		0.61		POUND
Filetail cat shark	Parmaturus xaniurus	2013		1,751.32		POUND
Flag rockfish	Sebastes rubrivinctus	2013		0.35		POUND
Flapjack devilfish	Opisthoteuthis californiana	2013		71.56		POUND
Flatfishes (unidentified)	Pleuronectiformes	2013		210.59		POUND
Flathead skate	Bathyraja parmifera	2013		29.97		POUND
Flathead sole	Hippoglossoides elassodon	2013		17,828.66		POUND
Ghostly grenadier	Coryphaenoides leptolepis	2013		181.63		POUND
Giant grenadier	Albatrossia pectoralis	2013		207,522.25		POUND
Giant wrymouth	Cryptacanthodes giganteus	2013		15.59		POUND
Gorgonian coral (unidentified)	Alcyonacea	2013		0.41		POUND
Green sturgeon	Acipenser medirostris	2013		292.96		POUND
Greenblotched rockfish	Sebastes rosenblatti	2013		1.68		POUND
Greenling (unidentified)	Hexagrammidae	2013		2.77		POUND
Greenspotted rockfish	Sebastes chlorostictus	2013		738.26		POUND
Greenstriped rockfish	Sebastes elongatus	2013		10,760.08		POUND
Grenadiers	Macrouridae	2013		14,215.14		POUND
Groundfishes (unidentified)		2013		0.01		POUND
Gunnels	Pholidae	2013		0.88		POUND
Hagfish (unidentified)	Myxinidae	2013		14.05		POUND
Hair crab	Paralomis multispina	2013		54.11		POUND
Halfbanded rockfish	Sebastes semicinctus	2013		10.05		POUND
Hatchetfish (unidentified)	Sternoptychidae	2013		0.15		POUND
Hermit crab (unidentified)	Paguroidea	2013		59.92		POUND
Herring (unidentified)	Clupea	2013		5.00		POUND
Horny gorgonians	Holaxonia	2013		2.90		POUND
Hornyhead turbot	Pleuronichthys verticalis	2013		11.13		POUND
Invertebrates (unidentified)		2013		26,032.24		POUND

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Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Irregular echinoids	Echinoidea	2013	57.98	POUND		
Isopod (unidentified)	Isopoda	2013	0.20	POUND		
Jack mackerel - Pacific Coast	Trachurus symmetricus	2013	92.99	POUND		
Jellyfish (unidentified)	Scyphozoa	2013	29,266.03	POUND		
Jumbo squid	Dosidicus gigas	2013	4,525.12	POUND		
Kelp crab (unidentified)	Pugettia	2013	0.21	POUND		
Kelp greenling	Hexagrammos decagrammus	2013	223.08	POUND		
King crab (unidentified)	Lithodidae	2013	11.17	POUND		
King-of-salmon	Trachipterus altivelis	2013	17.46	POUND		
Lancetfish (unidentified)	Alepisaurus	2013	18.05	POUND		
Lanternfishes	Myctophidae	2013	16.52	POUND		
Leopard shark	Triakis semifasciata	2013	238.17	POUND		
Lightfish (unidentified)	Phosichthyidae	2013	39.22	POUND		
Lingcod - Pacific Coast	Ophiodon elongatus	2013	52,855.46	POUND		
Long-armed spider crab	Macroregonia macrochira	2013	2.69	POUND		
Longfin sanddab	Citharichthys xanthostigma	2013	18.42	POUND		
Longnose cat shark	Apristurus kampae	2013	3,545.24	POUND		
Longnose lancetfish	Alepisaurus ferox	2013	32.30	POUND		
Longnose skate - Pacific Coast	Raja rhina	2013	296,620.83	POUND		
Longspine combfish	Zaniolepis latipinnis	2013	69.51	POUND		
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2013	75,523.25	POUND		
Loosejaw (unidentified)	Stomiidae	2013	0.05	POUND		
Lumpsucker (unidentified)	Cyclopteridae	2013	51.57	POUND		
Lyre crab (unidentified)	Hyas	2013	19.57	POUND		
Medusafish	Icichthys lockingtoni	2013	1.16	POUND		
Mexican rockfish	Sebastes macdonaldi	2013	0.00	POUND		
Midshipman (toadfish) (unidentified)	Porichthys	2013	307.46	POUND		
Mixed species		2013	0.03	POUND		
Mollusk (unidentified)	Mollusca	2013	12.07	POUND		
Monkeyface pricklyback	Cebidichthys violaceus	2013	27.39	POUND		
Moridae (unidentified)	Moridae	2013	1.67	POUND		
Nearshore rockfish (unidentified)	Sebastes	2013	46.67	POUND		
Night smelt	Spirinchus starksi	2013	0.10	POUND		
Non-eulachon smelt (unidentified)	Osmeriformes	2013	52.27	POUND		
Non-humboldt squid (unidentified)	Teuthida	2013	24,611.75	POUND		
Nudibranch (unidentified)	Nudibranchia	2013	248.07	POUND		
Ocean sunfish	Mola mola	2013	121.70	POUND		
Octopus (unidentified)	Octopoda	2013	14,234.79	POUND		
Olive rockfish	Sebastes serranoides	2013	1.45	POUND		
Opah - Pacific	Lampris guttatus	2013	9.35	POUND		
Opalescent inshore squid	Loligo opalescens	2013	0.02	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Other nongroundfish		2013		0.47		POUND
Oxeye oreo	<i>Allocyttus folletti</i>	2013		28.50		POUND
Pacific chub mackerel	<i>Scomber japonicus</i>	2013		189.76		POUND
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2013		938.75		POUND
Pacific electric ray	<i>Torpedo californica</i>	2013		3,161.02		POUND
Pacific flatnose	<i>Antimora microlepis</i>	2013		3,208.37		POUND
Pacific grenadier - Pacific Coast	<i>Coryphaenoides acrolepis</i>	2013		93,260.63		POUND
Pacific hagfish	<i>Eptatretus stoutii</i>	2013		0.96		POUND
Pacific hake	<i>Merluccius productus</i>	2013		548,409.70		POUND
Pacific halibut	<i>Hippoglossus stenolepis</i>	2013		145,796.11		POUND
Pacific herring	<i>Clupea pallasii</i>	2013		770.46		POUND
Pacific lamprey	<i>Lampetra tridentata</i>	2013		0.15		POUND
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2013		2,306.50		POUND
Pacific pomfret	<i>Brama japonica</i>	2013		27.44		POUND
Pacific pompano	<i>Peprilus simillimus</i>	2013		6.85		POUND
Pacific rock crab	<i>Cancer antennarius</i>	2013		206.95		POUND
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	2013		146,877.34		POUND
Pacific sandfish	<i>Trichodon trichodon</i>	2013		1.64		POUND
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	2013		4,736.08		POUND
Pacific saury	<i>Cololabis saira</i>	2013		2.05		POUND
Pacific scabbardfish	<i>Lepidopus caudatus</i>	2013		65.98		POUND
Pacific sleeper shark	<i>Somniosus pacificus</i>	2013		46,038.73		POUND
Pacific staghorn sculpin	<i>Leptocottus armatus</i>	2013		178.73		POUND
Pacific tom cod	<i>Microgadus proximus</i>	2013		13.44		POUND
Pacific viperfish	<i>Chauliodus macouni</i>	2013		0.05		POUND
Paperbone (unidentified)	<i>Scopelosaurus</i>	2013		3.25		POUND
Peanut worm (unidentified)	<i>Sipuncula</i>	2013		0.70		POUND
Pelagic thresher	<i>Alopias pelagicus</i>	2013		4,254.18		POUND
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2013		38,644.25		POUND
Pile surfperch	<i>Rhacochilus vacca</i>	2013		3.58		POUND
Pink rockfish	<i>Sebastes eos</i>	2013		0.92		POUND
Pink seaperch	<i>Zalembeus rosaceus</i>	2013		0.33		POUND
Pinkrose rockfish	<i>Sebastes simulator</i>	2013		3.39		POUND
Plainfin midshipman	<i>Porichthys notatus</i>	2013		224.86		POUND
Poachers (unidentified)	Agonidae	2013		88.09		POUND
Popeye grenadier	<i>Coryphaenoides cinereus</i>	2013		7.86		POUND
Prickleback (unidentified)	Stichaeidae	2013		5.13		POUND
Prowfish	<i>Zaprora silenus</i>	2013		13.34		POUND
Pygmy poacher	<i>Odontopyxis trispinosa</i>	2013		0.20		POUND
Pygmy rockfish	<i>Sebastes wilsoni</i>	2013		0.71		POUND
Quillback rockfish	<i>Sebastes maliger</i>	2013		19.49		POUND

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Ragfish	Icosteus aenigmaticus	2013	493.93	POUND		
Red rock crab	Cancer productus	2013	41.02	POUND		
Redbanded rockfish	Sebastes babcocki	2013	1,712.64	POUND		
Redstripe rockfish	Sebastes proriger	2013	17.42	POUND		
Rex sole - Pacific Coast	Glyptocephalus zachirus	2013	56,781.84	POUND		
Ribbonfishes (unidentified)	Trachipteridae	2013	0.25	POUND		
Rock crabs	Decapoda	2013	5.00	POUND		
Rock sole	Paraplagusia bilineata	2013	762.12	POUND		
Rockfishes (unidentified)	Sebastes	2013	0.00	POUND		
Ronquil (unidentified)	Bathymasteridae	2013	136.63	POUND		
Rosethorn rockfish	Sebastes helvomaculatus	2013	2,057.29	POUND		
Rosy rockfish	Sebastes rosaceus	2013	64.73	POUND		
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2013	161.93	POUND		b
Roughshoulder/broad skate	Amblyraja badia	2013	21.02	POUND		
Roundfishes (unidentified)		2013	7.96	POUND		
Sablefish - Pacific Coast	Anoplopoma fimbria	2013	16,623.67	POUND		
Salp (unidentified)	Salpidae	2013	1.22	POUND		
Sand sole - Pacific Coast	Psettichthys melanostictus	2013	1,585.19	POUND		
Sanddabs (unidentified)	Citharichthys	2013	869.21	POUND		
Sandpaper skate	Bathyraja interrupta	2013	91,667.00	POUND		
Scabbardfish cutlassfish (unidentified)	Trichiuridae	2013	65.05	POUND		
Scallop (unidentified)	Pectinidae	2013	5.85	POUND		
Scarlet king crab	Lithodes couesi	2013	464.19	POUND		
Sculpins (unidentified)	Cottidae	2013	2,489.52	POUND		
Sea anemones (unidentified)	Actiniaria	2013	70,607.46	POUND		
Sea cucumbers (unidentified)	Holothuroidea	2013	1,895.62	POUND		
Sea fans		2013	2.07	POUND		
Sea pansies	Pennatulacea	2013	0.05	POUND		
Sea pens	Pennatulacea	2013	29.61	POUND		
Sea snail (unidentified)		2013	918.83	POUND		
Sea squirts (unidentified)	Asciacea	2013	394.24	POUND		
Sea stars	Asteroidea	2013	59,987.83	POUND		
Sea urchins	Echinoidea	2013	17,301.90	POUND		
Sea whips	Pennatulacea	2013	168.84	POUND		
Sen pen/pansies (unidentified)	Pennatulacea	2013	0.52	POUND		
Sharks (unidentified)	Elasmobranchii	2013	20,242.86	POUND		
Sharpchin rockfish	Sebastes zacentrus	2013	10,674.63	POUND		
Shelf rockfishes (other)	Sebastes	2013	40.20	POUND		
Shiner surfperch	Cymatogaster aggregata	2013	4.08	POUND		
Shortbelly rockfish - Pacific Coast	Sebastes jordani	2013	41,595.65	POUND		
Shortraker rockfish	Sebastes borealis	2013	96.96	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Shortspine thornyhead - Pacific Coast	Sebastolobus alascanus	2013	17,935.63	POUND		
Shrimp (unidentified)	Decapoda	2013	1,338.48	POUND		
Silvergray rockfish	Sebastes brevispinis	2013	2.56	POUND		
Skates (unidentified)	Rajidae	2013	5,221.93	POUND		
Slender codling	Halargyreus johnsonii	2013	8.68	POUND		
Slender sole	Lyopsetta exilis	2013	107,434.00	POUND		
Slickhead (unidentified)	Alepocephalidae	2013	543.50	POUND		
Slope rockfishes (other)	Sebastes	2013	119.47	POUND		
Smelt (unidentified)	Osmeriformes	2013	29.19	POUND		
Smooth stargazer	Kathetostoma averruncus	2013	0.30	POUND		
Snailfishes (unidentified)	Liparidae	2013	2,869.44	POUND		
Snakehead eelpout	Lycenchelys crotalinus	2013	163.64	POUND		
Snipe eels (unidentified)	Nemichthyidae	2013	0.10	POUND		
Soft coral	Alcyonacea	2013	15.29	POUND		
Soft eelpout	Bothrocara molle	2013	12.81	POUND		
Softhead grenadier	Malacocephalus laevis	2013	1.46	POUND		
Southern Tanner crab	Chionoecetes bairdi	2013	4.84	POUND		
Specklefin midshipman	Porichthys myriaster	2013	285.02	POUND		
Spiky king crab	Neolithodes diomedea	2013	3.02	POUND		
Spiny dogfish - Pacific Coast	Squalus acanthias	2013	620,534.63	POUND		
Spiny king crab	Paralithodes rathbuni	2013	862.87	POUND		
Splitnose rockfish - Pacific Coast	Sebastes diploproa	2013	112,312.85	POUND		
Sponge (unidentified)	Porifera	2013	9,528.61	POUND		
Spongy gorgonians	Scleraxonia	2013	13.27	POUND		
Spotfin sculpin	Icelinus tenuis	2013	0.35	POUND		
Spotfin surfperch	Hyperprosopon anale	2013	78.50	POUND		
Spotted ratfish	Hydrolagus colliciei	2013	229,144.80	POUND		
Spotted rockfish (unidentified)	Sebastes	2013	29.72	POUND		
Squat lobster (unidentified)	Anomura	2013	0.76	POUND		
Squids	Teuthida	2013	2,403.96	POUND		
Starry flounder - Pacific Coast	Platichthys stellatus	2013	584.24	POUND		
Starry skate	Raja stellulata	2013	190.54	POUND		
Stony coral	Scleractinia	2013	5.11	POUND		
Stripetail rockfish	Sebastes saxicola	2013	39,432.97	POUND		
Surfperch (unidentified)	Embiotocidae	2013	48.25	POUND		
Tanner crabs	Chionoecetes	2013	44,778.83	POUND		
Tanneri tanner crab	Chionoecetes tanneri	2013	328,846.76	POUND		
Thornback	Platyrhinoidis triseriata	2013	91.05	POUND		
Thornyheads	Sebastolobus	2013	234.43	POUND		
Threadfin sculpin	Icelinus filamentosus	2013	130.35	POUND		
Threadfin slickhead	Talismania bifurcata	2013	1,095.11	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Tiger rockfish	Sebastes nigrocinctus	2013	0.20	POUND		
Tope	Galeorhinus galeus	2013	231.42	POUND		
Tube shoulders (unidentified)	Platyroctidae	2013	0.66	POUND		
Tunicata	Tunicata	2013	1,215.94	POUND		
Twoline eelpout	Bothrocara brunneum	2013	10,089.51	POUND		
Vermilion rockfish	Sebastes miniatus	2013	0.00	POUND		
Viperfishes (unidentified)	Chauliodontinae	2013	10.57	POUND		
Walleye pollock	Theragra chalcogramma	2013	321.54	POUND		
White croaker	Genyonemus lineatus	2013	24.00	POUND		
White skate	Bathyraja spinosissima	2013	152.57	POUND		
Whitebarred prickleback	Poroclinus rothrocki	2013	6.45	POUND		
Widow rockfish - Pacific Coast	Sebastes entomelas	2013	5,362.71	POUND		
Wolf-eel	Anarrhichthys ocellatus	2013	8.21	POUND		
Worm (unidentified)		2013	8.78	POUND		
Wrymouth (unidentified)	Cryptacanthodes	2013	520.18	POUND		
Yellow rock crab	Cancer anthonyi	2013	19.66	POUND		
Yelloweye rockfish - Pacific Coast	Sebastes ruberrimus	2013	2.32	POUND		
Yellowmouth rockfish	Sebastes reedi	2013	10.87	POUND		
Yellowtail rockfish	Sebastes flavidus	2013	26.13	POUND		
TOTAL FISHERY BYCATCH			5,903,818.88	POUND		
TOTAL FISHERY LANDINGS			41,777,093.10	POUND		
TOTAL CATCH (Bycatch + Landings)			47,680,911.98	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.12			
West Coast Mid-Water Trawl for Whiting, At-Sea Processing						
American shad	Alosa sapidissima	2013	11,565.55	POUND		
Argentine (unidentified)	Argentina	2013	0.18	POUND		
Arrowtooth flounder - Pacific Coast	Reinhardtius stomias	2013	9,865.07	POUND		
Aurora rockfish	Sebastes aurora	2013	7.19	POUND		
Bank rockfish	Sebastes rufus	2013	9.30	POUND		
Barracudinas (unidentified)	Paralepididae	2013	0.13	POUND		
Big skate	Raja binoculata	2013	222.00	POUND		
Blackgill rockfish	Sebastes melanostomus	2013	43.21	POUND		
Blue shark	Prionace glauca	2013	162.12	POUND		
Bocaccio	Sebastes paucispinis	2013	457.56	POUND		
Brown cat shark	Apristurus brunneus	2013	57,661.26	POUND		
Canary rockfish	Sebastes pinniger	2013	934.46	POUND		
Chilipepper	Sebastes goodei	2013	5.84	POUND		
Chinook salmon	Oncorhynchus tshawytscha	2013	23,809.68	POUND		
Chum salmon	Oncorhynchus keta	2013	220.46	POUND		
Coho salmon	Oncorhynchus kisutch	2013	55.12	POUND		
Crab (unidentified)	Brachyura	2013	0.04	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Cutlassfish (unidentified)	Trichiuridae	2013		15.16		POUND
Daggertooth	Anotopterus pharao	2013		2.06		POUND
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2013		8,107.88		POUND
Deepsea smelt (unidentified)	Bathylagidae	2013		10.89		POUND
Dover sole - Pacific Coast	Microstomus pacificus	2013		746.97		POUND
Dragonfishes (unidentified)	Melanostomiinae	2013		54.59		POUND
Dreamer (unidentified)	Oneirodidae	2013		0.13		POUND
Duckbill barracudina	Magnisudis atlantica	2013		392.89		POUND
Dungeness crab	Cancer magister	2013		83.34		POUND
Eelpouts	Zoarcidae	2013		22.16		POUND
English sole - Pacific Coast	Parophrys vetulus	2013		8.26		POUND
Eulachon	Thaleichthys pacificus	2013		33.43		POUND
Fishes (unidentified)		2013		16.98		POUND
Flatfishes (unidentified)	Pleuronectiformes	2013		5.33		POUND
Flathead sole	Hippoglossoides elassodon	2013		9.54		POUND
Greenstriped rockfish	Sebastes elongatus	2013		1.95		POUND
Grenadiers	Macrouridae	2013		702.17		POUND
Harlequin rockfish	Sebastes variegatus	2013		3.12		POUND
Jack mackerel - Pacific Coast	Trachurus symmetricus	2013		168,670.57		POUND
Jellyfish (unidentified)	Scyphozoa	2013		4,264.60		POUND
Jumbo squid	Dosidicus gigas	2013		17.71		POUND
King-of-salmon	Trachipterus altivelis	2013		2,171.33		POUND
Lampreys (unidentified)	Petromyzontidae	2013		61.05		POUND
Lancetfishes	Alepisaurus	2013		158.98		POUND
Lanternfishes	Myctophidae	2013		476.74		POUND
Lingcod - Pacific Coast	Ophiodon elongatus	2013		1,963.52		POUND
Longnose skate - Pacific Coast	Raja rhina	2013		439.57		POUND
Longspine thornyhead - Pacific Coast	Sebastolobus altivelis	2013		1.06		POUND
Loosejaw (unidentified)	Stomiidae	2013		4.69		POUND
Manefishes	Caristiidae	2013		3.65		POUND
Medusafish	Icichthys lockingtoni	2013		462.48		POUND
Mixed species		2013		65.19		POUND
Northern anchovy	Engraulis mordax	2013		2.01		POUND
Ocean sunfish	Mola mola	2013		196.15		POUND
Octopus (unidentified)	Octopoda	2013		33.23		POUND
Pacific chub mackerel	Scomber japonicus	2013		10.60		POUND
Pacific electric ray	Torpedo californica	2013		24.46		POUND
Pacific hake	Merluccius productus	2013		463,525.92		POUND
Pacific halibut	Hippoglossus stenolepis	2013		2,336.88		POUND
Pacific herring	Clupea pallasii	2013		4.49		POUND
Pacific lamprey	Lampetra tridentata	2013		61.49		POUND

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2013	7,708.09	POUND		
Pacific pomfret	<i>Brama japonica</i>	2013	10.03	POUND		
Pacific sanddab - Pacific Coast	<i>Citharichthys sordidus</i>	2013	10.32	POUND		
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	2013	399.11	POUND		
Pacific saury	<i>Cololabis saira</i>	2013	0.84	POUND		
Pacific sleeper shark	<i>Somniosus pacificus</i>	2013	3,879.29	POUND		
Paperbone (unidentified)	<i>Scopelosaurus</i>	2013	3.23	POUND		
Pearleyes (unidentified)	Scopelarchidae	2013	0.62	POUND		
Pink salmon	<i>Oncorhynchus gorbuscha</i>	2013	97.00	POUND		
Ragfish	<i>Icosteus aenigmaticus</i>	2013	7,935.64	POUND		
Rainbow smelt	<i>Osmerus mordax mordax</i>	2013	13.66	POUND		
Redstripe rockfish	<i>Sebastes proriger</i>	2013	1,870.26	POUND		
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	2013	6,266.65	POUND		
Ribbonfishes (unidentified)	Trachipteridae	2013	221.98	POUND		
Rough pomfret	<i>Taractes asper</i>	2013	6.35	POUND		
Rougheye rockfish - Pacific Coast	<i>Sebastes aleutianus</i>	2013	15,507.46	POUND		b
Roundfishes (unidentified)		2013	1.57	POUND		
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2013	6,680.62	POUND		
Salmon (unidentified)	<i>Oncorhynchus</i>	2013	0.44	POUND		
Salmon shark	<i>Lamna ditropis</i>	2013	11,385.11	POUND		
Sandpaper skate	<i>Bathyraja interrupta</i>	2013	3.08	POUND		
Sea devil (unidentified)	Ceratiidae	2013	2.81	POUND		
Sharpchin rockfish	<i>Sebastes zacentrus</i>	2013	58.11	POUND		
Shortbelly rockfish - Pacific Coast	<i>Sebastes jordani</i>	2013	1,509.09	POUND		
Shortraker rockfish	<i>Sebastes borealis</i>	2013	20.50	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2013	9,605.51	POUND		
Shrimp (unidentified)	Decapoda	2013	5.82	POUND		
Silvergray rockfish	<i>Sebastes brevispinis</i>	2013	212.17	POUND		
Slender barracudina	<i>Lestidiops ringens</i>	2013	0.84	POUND		
Slender sole	<i>Lyopsetta exilis</i>	2013	4.21	POUND		
Smelt (unidentified)	<i>Osmeriformes</i>	2013	0.09	POUND		
Snailfishes (unidentified)	Liparidae	2013	14.68	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2013	177,414.39	POUND		
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2013	24,100.36	POUND		
Spotted ratfish	<i>Hydrolagus colliei</i>	2013	3.56	POUND		
Squids	Teuthida	2013	219,978.57	POUND		
Stripetail rockfish	<i>Sebastes saxicola</i>	2013	3.56	POUND		
Thornyheads	<i>Sebastolobus</i>	2013	31.48	POUND		
Thresher shark	<i>Alopias vulpinus</i>	2013	1,333.57	POUND		
Tope	<i>Galeorhinus galeus</i>	2013	511.21	POUND		
Tubeshoulders (unidentified)	Platyroctidae	2013	21.52	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Viperfishes (unidentified)	Chauliodontinae	2013	33.07	POUND		
Walleye pollock	Theragra chalcogramma	2013	4.47	POUND		
White barracudina	Arctozenus risso	2013	6.46	POUND		
Widow rockfish - Pacific Coast	Sebastes entomelas	2013	30,370.81	POUND		
Yellowmouth rockfish	Sebastes reedi	2013	7.97	POUND		
Yellowtail rockfish	Sebastes flavidus	2013	465,427.13	POUND		
TOTAL FISHERY BYCATCH			1,752,875.70	POUND		
TOTAL FISHERY LANDINGS			288,144,213.20	POUND		
TOTAL CATCH (Bycatch + Landings)			289,897,088.90	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			<0.01			
West Coast Mid-Water Trawl for Whiting, Shoreside Processing						
Blue shark	Prionace glauca	2013	114.21	POUND		
Brittle/basket star (unidentified)	Ophiuroidea	2013	0.21	POUND		
Canary rockfish	Sebastes pinniger	2013	5.00	POUND		
Chinook salmon	Oncorhynchus tshawytscha	2013	8,818.40	POUND		
Chum salmon	Oncorhynchus keta	2013	66.14	POUND		
Coho salmon	Oncorhynchus kisutch	2013	220.46	POUND		
Darkblotched rockfish - Pacific Coast	Sebastes crameri	2013	7.94	POUND		
Eulachon	Thaleichthys pacificus	2013	184.00	POUND		
Herring (unidentified)	Clupea	2013	77.87	POUND		
Invertebrates (unidentified)		2013	51.91	POUND		
Jellyfish (unidentified)	Scyphozoa	2013	62.30	POUND		
Longnose lancetfish	Alepisaurus ferox	2013	20.09	POUND		
Non-eulachon smelt (unidentified)	Osmeriformes	2013	0.83	POUND		
Non-humboldt squid (unidentified)	Teuthida	2013	2,882.76	POUND		
Ocean sunfish	Mola mola	2013	420.51	POUND		
Octopus (unidentified)	Octopoda	2013	53.37	POUND		
Pacific hake	Merluccius productus	2013	1,013,337.21	POUND		
Pacific halibut	Hippoglossus stenolepis	2013	2,905.91	POUND		
Pacific sardine - Pacific Coast	Sardinops sagax	2013	55.96	POUND		
Pink salmon	Oncorhynchus gorbuscha	2013	11.02	POUND		
Rougheye rockfish - Pacific Coast	Sebastes aleutianus	2013	25.00	POUND		b
Sea pens	Pennatulacea	2013	13.19	POUND		
Sharks (unidentified)	Elasmobranchii	2013	11,706.72	POUND		
Squids	Teuthida	2013	109.02	POUND		
Thresher shark	Alopias vulpinus	2013	708.23	POUND		
Tope	Galeorhinus galeus	2013	59.39	POUND		
Widow rockfish - Pacific Coast	Sebastes entomelas	2013	2,006.70	POUND		
Yellowtail rockfish	Sebastes flavidus	2013	350.00	POUND		
TOTAL FISHERY BYCATCH			1,044,274.35	POUND		
TOTAL FISHERY LANDINGS			235,851,484.30	POUND		

Table 6.5.3a

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
TOTAL CATCH (Bycatch + Landings)			236,895,758.65	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			<0.01			
West Coast Salmon Troll, Non-Tribal Ocean						
Chinook salmon	Oncorhynchus tshawytscha	2013	208,577.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	2013	57,551.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			266,128.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS			487,052.00	INDIVIDUAL		
TOTAL CATCH (Bycatch + Landings)			753,180.00	INDIVIDUAL		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.35			
West Coast Salmon Troll, Tribal Ocean						
Chinook salmon	Oncorhynchus tshawytscha	2013	21,032.00	INDIVIDUAL		
Coho salmon	Oncorhynchus kisutch	2013	6,900.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			27,932.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS			97,700.00	INDIVIDUAL		
TOTAL CATCH (Bycatch + Landings)			125,632.00	INDIVIDUAL		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.22			

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.