

NBR FIRST EDITION UPDATE

TABLE 6.1 NORTHWEST REGION FISH BYCATCH BY FISHERY Fishery bycatch ratio = bycatch / (bycatch + landings). In order to calculate ratios for some fisheries below, prohibited species have been excluded; please see fishery-level footnotes (in green) for details on numbers of individual species excluded.

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
California Halibut Trawl &, ++, ~~~						
Big skate	<i>Raja binoculata</i>	2010	53,934.18	POUND		
California halibut	<i>Paralichthys californicus</i>	2010	16,772.87	POUND		
California scorpionfish - Southern California	<i>Scorpaena guttata</i>	2010	743.11	POUND		c
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	11.00	INDIVIDUAL		
Dungeness crab	<i>Cancer magister</i>	2010	552,347.25	POUND		h
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2010	8,790.87	POUND		
Green sturgeon	<i>Acipenser medirostris</i>	2010	182.00	INDIVIDUAL		
Groundfishes (other)		2010	2,260.47	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	1,086.14	POUND		
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2010	233.44	POUND		
Other Flatfish		2010	67,949.51	POUND		
Other nearshore rockfish	Scorpaenidae	2010	6.51	POUND		
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	229.15	POUND		
Skates (other)	Rajidae	2010	44,254.41	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	6,444.55	POUND		
Starry flounder - Pacific Coast	<i>Platichthys stellatus</i>	2010	3,145.09	POUND		
TOTAL FISHERY BYCATCH			193.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			758,197.55	POUND		
TOTAL FISHERY LANDINGS			146,277.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.84			
California/Oregon Nearshore Rockfish ++, ^, ^^						
Black rockfish	<i>Sebastes melanops</i>	2010	3,320.86	POUND		f
Blue rockfish	<i>Sebastes mystinus</i>	2010	11,468.06	POUND		
Cabezon - California	<i>Scorpaenichthys marmoratus</i>	2010	1,173.35	POUND		
California scorpionfish - Southern California	<i>Scorpaena guttata</i>	2010	87.03	POUND		c
Canary rockfish - Pacific Coast	<i>Sebastes pinniger</i>	2010	13,058.16	POUND		
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	6.00	INDIVIDUAL		
Coho salmon	<i>Oncorhynchus kisutch</i>	2010	30.00	INDIVIDUAL		
Dungeness crab	<i>Cancer magister</i>	2010	511.59	POUND		h

NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Gopher rockfish	<i>Sebastes carnatus</i>	2010	3,413.45	POUND		g
Groundfishes (other)		2010	1,312.83	POUND		
Kelp greenling	<i>Hexagrammos decagrammus</i>	2010	992.10	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	4,109.87	POUND		
Other Flatfish		2010	57.21	POUND		
Other nearshore rockfish	Scorpaenidae	2010	4,881.55	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2010	176.86	POUND		
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	21.88	POUND		
Salmon (unidentified)	<i>Oncorhynchus</i>	2010	24.00	INDIVIDUAL		
Shelf rockfishes (other)	<i>Sebastes</i>	2010	582.87	POUND		
Skates (other)	Rajidae	2010	3.00	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	124.50	POUND		
Yelloweye rockfish - Pacific Coast	<i>Sebastes ruberrimus</i>	2010	280.88	POUND		
Yellowtail rockfish	<i>Sebastes flavidus</i>	2010	622.83	POUND		
TOTAL FISHERY BYCATCH			60.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			46,198.88	POUND		
TOTAL FISHERY LANDINGS			850,253.87	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.05			
Oregon/California Pink Shrimp ^{##, \$\$, +, ++}						
Arrowtooth flounder - Pacific Coast	<i>Reinhardtius stomias</i>	2010	50,163.96	POUND		
Canary rockfish - Pacific Coast	<i>Sebastes pinniger</i>	2010	34.38	POUND		
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	2010	26,605.50	POUND		
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2010	6,584.45	POUND		
Dungeness crab	<i>Cancer magister</i>	2010	1,763.63	POUND		h
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2010	5,520.79	POUND		
Eulachon	<i>Thaleichthys pacificus</i>	2010	1,075,081.00	INDIVIDUAL		
Groundfishes (other)		2010	921.52	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	233.49	POUND		
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2010	965.09	POUND		
Other Flatfish		2010	362,855.95	POUND		
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2010	128.48	POUND		e
Pacific hake - Pacific Coast	<i>Merluccius productus</i>	2010	879,323.70	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2010	134.84	POUND		b

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NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	2,692.12	POUND		
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2010	2,715.92	POUND		
Shelf rockfishes (other)	<i>Sebastes</i>	2010	7,042.50	POUND		b
Shortbelly rockfish - Pacific Coast	<i>Sebastes jordani</i>	2010	538.49	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2010	374.52	POUND		d
Skates (other)	Rajidae	2010	145.32	POUND		
Slope rockfishes (other)	<i>Sebastes</i>	2010	706.59	POUND		b
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	36,162.92	POUND		
Widow rockfish - Pacific Coast	<i>Sebastes entomelas</i>	2010	160.28	POUND		
Yelloweye rockfish - Pacific Coast	<i>Sebastes ruberrimus</i>	2010	1.89	POUND		
Yellowtail rockfish - Northern Pacific Coast	<i>Sebastes flavidus</i>	2010	474.73	POUND		b
TOTAL FISHERY BYCATCH			1,075,081.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			1,386,251.06	POUND		
TOTAL FISHERY LANDINGS			44,813,070.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.03			
West Coast Groundfish Non-Trawl Gear: Limited Entry Sablefish- Endorsed Fixed Gear ⁺⁺, [^]						
Arrowtooth flounder - Pacific Coast	<i>Reinhardtius stomias</i>	2010	95,445.50	POUND		
Big skate	<i>Raja binoculata</i>	2010	2,681.61	POUND		
Blackgill rockfish	<i>Sebastes melanostomus</i>	2010	209.27	POUND		a
California skate	<i>Raja inornata</i>	2010	562.89	POUND		
Canary rockfish - Pacific Coast	<i>Sebastes pinniger</i>	2010	103.04	POUND		
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	2010	417.17	POUND		
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2010	8,886.91	POUND		
Dungeness crab	<i>Cancer magister</i>	2010	2,355.09	POUND		h
Greenstriped rockfish	<i>Sebastes elongatus</i>	2010	458.50	POUND		
Grenadiers	Macrouridae	2010	37,337.41	POUND		
Groundfishes (other)		2010	4,505.39	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	14,363.62	POUND		
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2010	98,023.74	POUND		
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	2010	365.44	POUND		
Non-groundfishes (other)		2010	386,823.77	POUND		
Other Flatfish		2010	41.01	POUND		

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NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Pacific hake - Pacific Coast	<i>Merluccius productus</i>	2010	337.03	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2010	309,313.61	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2010	375.49	POUND		b
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	54.84	POUND		
Redstripe rockfish	<i>Sebastes proriger</i>	2010	24.31	POUND		b
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2010	722,934.76	POUND		
Shelf rockfishes (other)	<i>Sebastes</i>	2010	853.33	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2010	5,515.91	POUND		
Skates (other)	Rajidae	2010	4,049.75	POUND		
Slope rockfishes (other)	<i>Sebastes</i>	2010	88,901.99	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	491,041.02	POUND		
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2010	55.73	POUND		b
Starry flounder - Pacific Coast	<i>Platichthys stellatus</i>	2010	68.47	POUND		
Tanner crab	<i>Chionoecetes</i>	2010	4,063.48	POUND		
Thornyheads	<i>Sebastolobus</i>	2010	9.55	POUND		
Widow rockfish - Pacific Coast	<i>Sebastes entomelas</i>	2010	65.77	POUND		
Yelloweye rockfish - Pacific Coast	<i>Sebastes ruberrimus</i>	2010	580.90	POUND		
Yellowmouth rockfish	<i>Sebastes reedi</i>	2010	33.52	POUND		b
Yellowtail rockfish - Northern Pacific Coast	<i>Sebastes flavidus</i>	2010	116.78	POUND		
TOTAL FISHERY BYCATCH			2,280,976.60	POUND		
TOTAL FISHERY LANDINGS			4,254,659.88	POUND		
TOTAL CATCH (Bycatch + Landings)			6,535,636.48	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.35			
West Coast Groundfish Non-Trawl Gear: Non-Endorsed Fixed Gear ^{++, ^}						
Arrowtooth flounder - Pacific Coast	<i>Reinhardtius stomias</i>	2010	62,017.54	POUND		
Big skate	<i>Raja binoculata</i>	2010	291.51	POUND		
Blackgill rockfish	<i>Sebastes melanostomus</i>	2010	1,342.68	POUND		a
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	2010	10,768.71	POUND		
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2010	14,365.21	POUND		
Dungeness crab	<i>Cancer magister</i>	2010	503.74	POUND		h
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2010	47.08	POUND		
Grenadiers	Macrouridae	2010	39,891.32	POUND		

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NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Groundfishes (other)		2010	10,967.41	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	3,219.57	POUND		
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2010	71,865.10	POUND		
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	2010	16,141.71	POUND		
Non-groundfishes (other)		2010	377,180.53	POUND		
Pacific hake - Pacific Coast	<i>Merluccius productus</i>	2010	983.97	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2010	73,876.73	POUND		
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	94.16	POUND		
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2010	478,234.30	POUND		
Shelf rockfishes (other)	<i>Sebastes</i>	2010	50.98	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2010	103,223.20	POUND		
Skates (other)	Rajidae	2010	10,634.01	POUND		
Slope rockfishes (other)	<i>Sebastes</i>	2010	3,036.10	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	47,384.14	POUND		
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2010	250.70	POUND		
Tanner crab	<i>Chionoecetes</i>	2010	9,996.81	POUND		
Thornyheads	<i>Sebastolobus</i>	2010	4,810.45	POUND		
Yellowtail rockfish - Northern Pacific Coast	<i>Sebastes flavidus</i>	2010	76.73	POUND		
TOTAL FISHERY BYCATCH			1,341,254.39	POUND		
TOTAL FISHERY LANDINGS			4,688,905.83	POUND		
TOTAL CATCH (Bycatch + Landings)			6,030,160.22	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.22			
West Coast Limited Entry Bottom Trawl; Groundfish Bottom Trawl ^{++, >, ^}						
Arrowtooth flounder - Pacific Coast	<i>Reinhardtius stomias</i>	2010	1,653,232.71	POUND		
Big skate	<i>Raja binoculata</i>	2010	70,146.77	POUND		
Bocaccio - Southern Pacific Coast	<i>Sebastes paucispinis</i>	2010	24,054.98	POUND		a
Canary rockfish - Pacific Coast	<i>Sebastes pinniger</i>	2010	826.68	POUND		
Chilipepper - Southern Pacific Coast	<i>Sebastes goodei</i>	2010	88,622.60	POUND		a
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	55.00	INDIVIDUAL		
Coho salmon	<i>Oncorhynchus kisutch</i>	2010	27.00	INDIVIDUAL		
Cowcod - Southern California	<i>Sebastes levis</i>	2010	1,354.01	POUND		a
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	2010	287,677.85	POUND		

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NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2010	1,154,507.70	POUND		
Dungeness crab	<i>Cancer magister</i>	2010	586,148.87	POUND		h
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2010	179,853.24	POUND		
Eulachon	<i>Thaleichthys pacificus</i>	2010	21.00	INDIVIDUAL		
Eulachon	<i>Thaleichthys pacificus</i>	2010	3.11	POUND		
Green sturgeon	<i>Acipenser medirostris</i>	2010	8.00	INDIVIDUAL		
Grenadiers	Macrouridae	2010	423,143.00	POUND		
Groundfishes (other)		2010	295,959.91	POUND		
Kelp greenling - Oregon	<i>Hexagrammos decagrammus</i>	2010	97.50	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	20,071.32	POUND		
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2010	705,335.05	POUND		
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	2010	819,274.70	POUND		
Other Flatfish		2010	784,067.21	POUND		
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2010	182.74	POUND		
Pacific hake - Pacific Coast	<i>Merluccius productus</i>	2010	865,337.17	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2010	584,393.35	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2010	132,493.29	POUND		b
Petrable sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	282,408.15	POUND		
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2010	523,225.13	POUND		
Shelf rockfishes (other)	<i>Sebastes</i>	2010	74,983.07	POUND		
Shortbelly rockfish - Pacific Coast	<i>Sebastes jordani</i>	2010	9,759.49	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2010	172,245.16	POUND		
Skates (other)	Rajidae	2010	297,098.82	POUND		
Slope rockfishes (other)	<i>Sebastes</i>	2010	395,431.96	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	1,013,751.34	POUND		
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2010	196,438.64	POUND		a
Starry flounder - Pacific Coast	<i>Platichthys stellatus</i>	2010	3,009.31	POUND		
Tanner crab	<i>Chionoecetes</i>	2010	1,001,992.77	POUND		
Thornyheads	<i>Sebastolobus</i>	2010	58,649.47	POUND		
Widow rockfish - Pacific Coast	<i>Sebastes entomelas</i>	2010	47,235.18	POUND		
Yelloweye rockfish - Pacific Coast	<i>Sebastes ruberrimus</i>	2010	253.97	POUND		
Yellowtail rockfish - Northern Pacific Coast	<i>Sebastes flavidus</i>	2010	36,415.75	POUND		b
TOTAL FISHERY BYCATCH			111.00	INDIVIDUAL		

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NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
TOTAL FISHERY BYCATCH			12,789,681.97	POUND		
TOTAL FISHERY LANDINGS			50,211,994.00	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.20			
West Coast Mid-Water Trawl for Whiting, At-Sea Processing \$, &&, ~						
American shad	<i>Alosa sapidissima</i>	2010	259.78	POUND		
Arrowtooth flounder - Pacific Coast	<i>Reinhardtius stomias</i>	2010	13,641.47	POUND		
Aurora rockfish	<i>Sebastes aurora</i>	2010	51.36	POUND		
Bank rockfish	<i>Sebastes rufus</i>	2010	118.19	POUND		
Barracudinas (unidentified)	<i>Paralepididae</i>	2010	111.20	POUND		
Big skate	<i>Raja binoculata</i>	2010	613.57	POUND		
Blackgill rockfish	<i>Sebastes melanostomus</i>	2010	44.05	POUND		
Blue shark	<i>Prionace glauca</i>	2010	120.24	POUND		
Bocaccio	<i>Sebastes paucispinis</i>	2010	1,998.36	POUND		
Brown cat shark	<i>Apristurus brunneus</i>	2010	134,934.33	POUND		
Canary rockfish - Pacific Coast	<i>Sebastes pinniger</i>	2010	1,366.83	POUND		
Chilipepper	<i>Sebastes goodei</i>	2010	2,368.01	POUND		
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	1,364.00	INDIVIDUAL		
Chum salmon	<i>Oncorhynchus keta</i>	2010	11.00	INDIVIDUAL		
Coho salmon	<i>Oncorhynchus kisutch</i>	2010	5.00	INDIVIDUAL		
Darkblotched rockfish - Pacific Coast	<i>Sebastes cramerii</i>	2010	9,684.81	POUND		
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2010	2,246.65	POUND		
Dragonfishes (unidentified)	<i>Melanostomiinae</i>	2010	55.61	POUND		
Duckbill barracudina	<i>Magnisudis atlantica</i>	2010	509.25	POUND		
Eelpouts	Zoarcidae	2010	31.39	POUND		
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2010	3.11	POUND		
Fangtooth	<i>Anoplogaster cornuta</i>	2010	0.18	POUND		
Grenadiers	Macrouridae	2010	22.78	POUND		
Harlequin rockfish	<i>Sebastes variegatus</i>	2010	5.13	POUND		
Hatchetfish (unidentified)	<i>Sternoptychidae</i>	2010	0.07	POUND		
Invertebrates (unidentified)		2010	1.52	POUND		
Jack mackerel - Pacific Coast	<i>Trachurus symmetricus</i>	2010	2,035.66	POUND		h
Jellyfish (unidentified)	Scyphozoa	2010	695.88	POUND		
Jumbo squid	<i>Dosidicus gigas</i>	2010	289,240.61	POUND		

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NBR FIRST EDITION UPDATE

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King-of-salmon	<i>Trachipterus altivelis</i>	2010	3,410.79	POUND		
Lampreys (unidentified)	Petromyzontidae	2010	65.33	POUND		
Lanternfishes	Myctophidae	2010	67.54	POUND		
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	1,166.48	POUND		
Longnose lancetfish	<i>Alepisaurus ferox</i>	2010	80.43	POUND		
Longnose skate - Pacific Coast	<i>Raja rhina</i>	2010	1,213.06	POUND		
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	2010	5.48	POUND		
Medusafish	<i>Icichthys lockingtoni</i>	2010	58.33	POUND		
Miscellaneous fishes		2010	107.27	POUND		
Ocean sunfish	<i>Mola mola</i>	2010	204.50	POUND		
Octopus		2010	440.46	POUND		
Other Flatfish		2010	6.34	POUND		
Other species		2010	465.31	POUND		
Pacific chub mackerel - Pacific Coast	<i>Scomber japonicus</i>	2010	67.57	POUND		h
Pacific electric ray	<i>Torpedo californica</i>	2010	54.03	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2010	3,465.79	POUND		
Pacific herring	<i>Clupea pallasii</i>	2010	90.36	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2010	12,382.22	POUND		
Pacific pomfret	<i>Brama japonica</i>	2010	32.28	POUND		
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	2010	167.32	POUND		h
Pacific sleeper shark	<i>Somniosus pacificus</i>	2010	38.00	INDIVIDUAL		
Pearleyes (unidentified)	Scopelarchidae	2010	1.67	POUND		
Pelagic octopus (unidentified)	Octopoda	2010	25.05	POUND		
Poachers (unidentified)	Agonidae	2010	33.44	POUND		
Prowfish	<i>Zaprora silenus</i>	2010	0.26	POUND		
Ragfish	<i>Icosteus aenigmaticus</i>	2010	24,360.27	POUND		
Redbanded rockfish	<i>Sebastes babcocki</i>	2010	64.06	POUND		
Redstripe rockfish	<i>Sebastes proriger</i>	2010	100.02	POUND		
Rex sole - Pacific Coast	<i>Glyptocephalus zachirus</i>	2010	12,696.30	POUND		
Ribbonfishes (unidentified)	Trachipteridae	2010	1.06	POUND		
Rockfishes	<i>Sebastes</i>	2010	1.79	POUND		
Rosethorn rockfish	<i>Sebastes helvomaculatus</i>	2010	0.95	POUND		
Rougheye rockfish - Pacific Coast	<i>Sebastes aleutianus</i>	2010	17,744.57	POUND		

Table 6.1

NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Roundfishes (unidentified)		2010	3.40	POUND		
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2010	13,114.36	POUND		
Salmon (unidentified)	<i>Oncorhynchus</i>	2010	2.00	INDIVIDUAL		
Salmon shark	<i>Lamna ditropis</i>	2010	10.00	INDIVIDUAL		
Sea anemones (unidentified)	Actiniaria	2010	3.88	POUND		
Sea pens and/or whips	Octocorallia	2010	0.22	POUND		
Sea stars	Asteroidea	2010	6.72	POUND		
Sharks (unidentified)	Elasmobranchii	2010	4.52	POUND		
Sharpchin rockfish	<i>Sebastes zacentrus</i>	2010	2.13	POUND		
Shortbelly rockfish - Pacific Coast	<i>Sebastes jordani</i>	2010	6.79	POUND		
Shortraker rockfish	<i>Sebastes borealis</i>	2010	233.22	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2010	4,519.39	POUND		
Shrimp (unidentified)	Decapoda	2010	1.68	POUND		
Silvergray rockfish	<i>Sebastes brevispinis</i>	2010	164.36	POUND		
Slender barracudina	<i>Lestidiops ringens</i>	2010	0.85	POUND		
Snailfishes (unidentified)	Liparidae	2010	52.11	POUND		
Snipe eels (unidentified)	Nemichthyidae	2010	0.13	POUND		
Sockeye salmon	<i>Oncorhynchus nerka</i>	2010	2.00	INDIVIDUAL		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	578,774.84	POUND		
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2010	55,633.02	POUND		
Squids	Teuthida	2010	110,942.79	POUND		
Thresher sharks		2010	8.00	INDIVIDUAL		
Tope	<i>Galeorhinus galeus</i>	2010	445.44	POUND		
Tubeshoulders (unidentified)	Platyroctidae	2010	9.73	POUND		
Viperfishes (unidentified)	Chauliodontinae	2010	12.11	POUND		
Walleye pollock	<i>Theragra chalcogramma</i>	2010	31.62	POUND		
White barracudina	<i>Arctozenus risso</i>	2010	2.88	POUND		
Widow rockfish - Pacific Coast	<i>Sebastes entomelas</i>	2010	50,585.45	POUND		
Yelloweye rockfish - Pacific Coast	<i>Sebastes ruberrimus</i>	2010	12.33	POUND		
Yellowtail rockfish - Northern Pacific Coast	<i>Sebastes flavidus</i>	2010	92,022.37	POUND		
TOTAL FISHERY BYCATCH			1,440.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			1,445,326.71	POUND		
TOTAL FISHERY LANDINGS			234,972,991.80	POUND		

Table 6.1

NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.01			
West Coast Mid-Water Trawl for Whiting, Shoreside Processing						
American shad	<i>Alosa sapidissima</i>	2010	14,726.73	POUND		
Arrowtooth flounder - Pacific Coast	<i>Reinhardtius stomias</i>	2010	21,979.86	POUND		
Canary rockfish - Pacific Coast	<i>Sebastes pinniger</i>	2010	8,884.54	POUND		
Chilipepper	<i>Sebastes goodei</i>	2010	44,047.91	POUND		
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	2,997.00	INDIVIDUAL		
Chum salmon	<i>Oncorhynchus keta</i>	2010	8.00	INDIVIDUAL		
Coho salmon	<i>Oncorhynchus kisutch</i>	2010	16.00	INDIVIDUAL		
Darkblotched rockfish - Pacific Coast	<i>Sebastes crameri</i>	2010	9,964.79	POUND		
Dover sole - Pacific Coast	<i>Microstomus pacificus</i>	2010	3,020.30	POUND		
Dungeness crab	<i>Cancer magister</i>	2010	400.00	INDIVIDUAL		h
English sole - Pacific Coast	<i>Parophrys vetulus</i>	2010	396.83	POUND		
Groundfishes (other)		2010	1,499.13	POUND		
Jack mackerel - Pacific Coast	<i>Trachurus symmetricus</i>	2010	8,686.12	POUND		h
Lingcod - Pacific Coast	<i>Ophiodon elongatus</i>	2010	4,276.92	POUND		
Longspine thornyhead - Pacific Coast	<i>Sebastolobus altivelis</i>	2010	308.64	POUND		
Non-groundfishes (other)		2010	78,682.17	POUND		
Other Flatfish		2010	16,843.14	POUND		
Pacific chub mackerel - Pacific Coast	<i>Scomber japonicus</i>	2010	22.05	POUND		h
Pacific cod - Pacific Coast	<i>Gadus macrocephalus</i>	2010	28,240.93	POUND		
Pacific hake - Pacific Coast	<i>Merluccius productus</i>	2010	471,784.40	POUND		
Pacific halibut	<i>Hippoglossus stenolepis</i>	2010	23.00	INDIVIDUAL		
Pacific herring	<i>Clupea pallasii</i>	2010	106,261.72	POUND		
Pacific ocean perch - Pacific Coast	<i>Sebastes alutus</i>	2010	14,197.62	POUND		
Pacific sardine - Pacific Coast	<i>Sardinops sagax</i>	2010	66.14	POUND		h
Petrale sole - Pacific Coast	<i>Eopsetta jordani</i>	2010	132.28	POUND		
Rockfishes	<i>Sebastes</i>	2010	40,630.78	POUND		
Sablefish - Pacific Coast	<i>Anoplopoma fimbria</i>	2010	45,216.35	POUND		
Salmon (unidentified)	<i>Oncorhynchus</i>	2010	2.00	INDIVIDUAL		
Shortbelly rockfish - Pacific Coast	<i>Sebastes jordani</i>	2010	330.69	POUND		
Shortspine thornyhead - Pacific Coast	<i>Sebastolobus alascanus</i>	2010	25,220.62	POUND		
Spiny dogfish - Pacific Coast	<i>Squalus acanthias</i>	2010	330,425.45	POUND		

Table 6.1

NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Splitnose rockfish - Pacific Coast	<i>Sebastes diploproa</i>	2010	77,138.95	POUND		
Squids	Teuthida	2010	236,178.80	POUND		
Widow rockfish - Pacific Coast	<i>Sebastes entomelas</i>	2010	121,186.86	POUND		
Yellowtail rockfish - Northern Pacific Coast	<i>Sebastes flavidus</i>	2010	448,305.41	POUND		
TOTAL FISHERY BYCATCH			3,446.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			2,158,656.13	POUND		
TOTAL FISHERY LANDINGS			141,206,790.50	POUND		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.02			
West Coast Salmon Troll, Non-Tribal Ocean						
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	50,200.00	INDIVIDUAL		
Coho salmon	<i>Oncorhynchus kisutch</i>	2010	55,300.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			105,500.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS			102,762.00	INDIVIDUAL		
TOTAL CATCH (Bycatch + Landings)			208,262.00	INDIVIDUAL		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.51			
West Coast Salmon Troll, Tribal Ocean						
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	2010	12,300.00	INDIVIDUAL		
Coho salmon	<i>Oncorhynchus kisutch</i>	2010	1,800.00	INDIVIDUAL		
TOTAL FISHERY BYCATCH			14,100.00	INDIVIDUAL		
TOTAL FISHERY LANDINGS			45,728.00	INDIVIDUAL		
TOTAL CATCH (Bycatch + Landings)			59,828.00	INDIVIDUAL		
FISHERY BYCATCH RATIO (Bycatch/Total Catch)			0.24			

FOOTNOTES:

Fishery bycatch ratio excludes 1,075,081 eulachon, which are reported as individual fish rather than weight units.

\$ Fishery bycatch ratio excludes 1384 salmon, 38 Pacific sleeper shark, 10 salmon shark, and 8 thresher shark, which are reported as individual fish rather than weight units.

\$\$ Observer coverage in the Washington pink shrimp fishery began in 2010.

& Total fishery landings represent total landings of California halibut (*Paralichthys californicus*).

&& Fishery-level bycatch reported for all bycatch species.

+ Total fishery landings represent total landings of pink shrimp.

++ Fishery-level bycatch reported for only groundfish and selected non-groundfish bycatch species.

NBR FIRST EDITION UPDATE

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
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- < Fishery bycatch ratio excludes 3023 salmon, 400 Dungeness crab, and 23 Pacific halibut, which are reported as individual fish rather than weight units.
- > Fishery bycatch ratio excludes 82 salmon, 21 eulachon, and 8 green sturgeon, which are reported as individual fish rather than weight units.
- ^ Total fishery landings represent total landings of groundfish species.
- ^^ Fishery bycatch ratio excludes 60 salmon, which are reported as individual fish rather than weight units.
- ~ Total fishery landings represent total retained catch.
- ~~ Fishery bycatch ratio excludes 11 salmon and 182 green sturgeon, which are reported as individual fish rather than weight units.
- a South of 40 degrees 10 minutes N. Latitude.
- b North of 40 degrees 10 minutes N. Latitude.
- c South of 34 degrees 27 minutes N. Latitude.
- d North of 34 degrees 27 minutes N. Latitude.
- e North of 43 degrees N. Latitude.
- f South of 46 degrees 16 minutes N. Latitude.
- g South of 40 degrees 10 minutes N. Latitude.
- h Species landing weight may be underestimated due to NW and SW region differentiation. The summary total of both regions may be appropriate for coastwide fisheries.
- j Species is commonly known as soupfin shark.