

TABLE 6.6.1 WEST COAST REGION MARINE MAMMAL BYCATCH BY FISHERY (2011) Bycatch estimates include incidental mortality and serious injury. Where multiple years of data are indicated, the estimate is an annual average.

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
California Halibut Trawl						
California sea lion - U.S.	Zalophus californianus	2007-2011	18.90	INDIVIDUAL	0.43	
Fishery Total			18.90			
California Halibut/White Seabass and Other Species Set Gillnet (>3.5 in Mesh)						
California sea lion - U.S.	Zalophus californianus	2007	190.00	INDIVIDUAL	0.68	
Harbor seal - California	Phoca vitulina richardii	2007	11.00	INDIVIDUAL	0.73	
Fishery Total			201.00			
California/Oregon Drift Gillnet (Mesh Size >14 in) for Swordfish and Thresher Shark						
California sea lion - U.S.	Zalophus californianus	2005-2009	41.00	INDIVIDUAL	0.28	
Long-beaked common dolphin - California / Oregon / Washington	Delphinus capensis	2004-2008	5.20	INDIVIDUAL	0.78	
Northern right whale dolphin - California / Oregon / Washington	Lissodelphis borealis	2004-2008	3.60	INDIVIDUAL	0.96	
Pacific white-sided dolphin - California / Oregon / Washington, Northern and Southern	Lagenorhynchus obliquidens	2004-2008	8.60	INDIVIDUAL	0.77	
Risso's dolphin - California / Oregon / Washington	Grampus griseus	2004-2008	1.40	INDIVIDUAL	0.99	
Short-beaked common dolphin - California / Oregon / Washington	Delphinus delphis	2004-2008	47.00	INDIVIDUAL	0.19	
Fishery Total			106.80			
California/Oregon Nearshore Rockfish						
Harbor seal	Phoca vitulina richardii	2007-2011	5.30	INDIVIDUAL	0.71	
Fishery Total			5.30			
West Coast Groundfish Non-Trawl Gear: Limited Entry Sablefish-Endorsed Fixed Gear						
Northern elephant seal	Mirounga angustirostris	2007-2011	0.80	INDIVIDUAL	0.71	
Sea lions (unidentified)	Otariidae	2007-2011	2.70	INDIVIDUAL	0.55	
Sperm whale - California / Oregon / Washington	Physeter macrocephalus	2007-2011	0.70	INDIVIDUAL	0.50	
Fishery Total			4.20			
West Coast Groundfish Non-Trawl Gear: Non-Endorsed Fixed Gear						
Bottlenose dolphin	Tursiops truncatus	2007-2011	5.40	INDIVIDUAL	0.45	
California sea lion - U.S.	Zalophus californianus	2007-2011	3.60	INDIVIDUAL	0.41	
Harbor seal	Phoca vitulina richardii	2007-2011	4.30	INDIVIDUAL	0.41	
Sea lions (unidentified)	Otariidae	2007-2011	2.70	INDIVIDUAL	0.58	
Fishery Total			16.00			
West Coast Limited Entry Bottom Trawl; Fixed Gear						
Northern elephant seal	Mirounga angustirostris	2011-2013	0.70	INDIVIDUAL	0.63	
Fishery Total			0.70			
West Coast Limited Entry Bottom Trawl; Groundfish Bottom and Midwater Trawl						
California sea lion - U.S.	Zalophus californianus	2011-2013	6.30	INDIVIDUAL	0.29	
Earless seals	Phocidae	2011-2013	0.30	INDIVIDUAL	0.63	
Northern elephant seal	Mirounga angustirostris	2011-2013	0.70	INDIVIDUAL	0.31	
Steller sea lion - Western U.S.	Eumetopias jubatus	2011-2013	10.70	INDIVIDUAL	0.28	
Fishery Total			18.00			
West Coast Mid-Water Trawl for Whiting, At-Sea Processing						

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
California sea lion - U.S.	Zalophus californianus	2007-2011	0.80	INDIVIDUAL	0.30	
Harbor seal	Phoca vitulina richardii	2007-2011	0.40	INDIVIDUAL	0.48	
Northern elephant seal	Mirounga angustirostris	2007-2011	3.00	INDIVIDUAL	0.19	
Sea lions (unidentified)	Otariidae	2007-2011	0.60	INDIVIDUAL	0.48	
Steller sea lion - Western U.S.	Eumetopias jubatus	2007-2011	3.00	INDIVIDUAL	0.26	
Fishery Total			7.80			
West Coast Mid-Water Trawl for Whiting, Shoreside Processing						
Northern elephant seal	Mirounga angustirostris	2011-2013	0.30	INDIVIDUAL	0.63	
Steller sea lion - Western U.S.	Eumetopias jubatus	2011-2013	0.30	INDIVIDUAL	0.63	
Fishery Total			0.60			
Grand Total			379.30			

WEST COAST REGION MARINE MAMMAL BYCATCH BY STOCKS AND SPECIES

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	FOOTNOTE(S)
Bottlenose Dolphin	Tursiops truncatus	2007-2011	5.40	INDIVIDUAL	
California Sea Lion - U.S.	Zalophus californianus	2011-2013	6.30	INDIVIDUAL	
California Sea Lion - U.S.	Zalophus californianus	2007-2011	23.30	INDIVIDUAL	
California Sea Lion - U.S.	Zalophus californianus	2005-2009	41.00	INDIVIDUAL	
California Sea Lion - U.S.	Zalophus californianus	2007	190.00	INDIVIDUAL	
Earless Seals (Group)	Phocidae	2011-2013	0.30	INDIVIDUAL	
Harbor Seal	Phoca vitulina richardii	2007-2011	10.00	INDIVIDUAL	
Harbor Seal - California	Phoca vitulina richardii	2007	11.00	INDIVIDUAL	
Long-Beaked Common Dolphin - California / Oregon / Washington	Delphinus capensis	2004-2008	5.20	INDIVIDUAL	
Northern Elephant Seal	Mirounga angustirostris	2007-2011	3.80	INDIVIDUAL	
Northern Elephant Seal	Mirounga angustirostris	2011-2013	1.70	INDIVIDUAL	
Northern Right Whale Dolphin - California / Oregon / Washington	Lissodelphis borealis	2004-2008	3.60	INDIVIDUAL	
Pacific White-Sided Dolphin - California / Oregon / Washington, Northern And Southern	Lagenorhynchus obliquidens	2004-2008	8.60	INDIVIDUAL	
Risso'S Dolphin - California / Oregon / Washington	Grampus griseus	2004-2008	1.40	INDIVIDUAL	
Sea Lions (Unidentified) (Group)	Otariidae	2007-2011	6.00	INDIVIDUAL	
Short-Beaked Common Dolphin - California / Oregon / Washington	Delphinus delphis	2004-2008	47.00	INDIVIDUAL	
Sperm Whale - California / Oregon / Washington	Physeter macrocephalus	2007-2011	0.70	INDIVIDUAL	
Steller Sea Lion - Western U.S.	Eumetopias jubatus	2007-2011	3.00	INDIVIDUAL	
Steller Sea Lion - Western U.S.	Eumetopias jubatus	2011-2013	11.00	INDIVIDUAL	
GRAND TOTAL			379.30	INDIVIDUAL	

FOOTNOTE

~ The management of this fishery changed substantially in 2011, so it would be inappropriate to include estimates from previous years; instead, a three-year mean is provided.