

**TABLE 6.6.3 WEST COAST REGION MARINE MAMMAL BYCATCH BY FISHERY (2013)** 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)
<b>California Halibut Trawl</b>						
California sea lion - U.S.	Zalophus californianus	2009-2013	17.20	INDIVIDUAL	0.44	
<b>Fishery Total</b>			17.20			
<b>California Halibut/White Seabass and Other Species Set Gillnet (&gt;3.5 in Mesh)</b>						
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	
Long-beaked common dolphin - California / Oregon / Washington	Delphinus capensis	2006-2010	1.40	INDIVIDUAL	1.07	
<b>Fishery Total</b>			202.40			
<b>California/Oregon Drift Gillnet (Mesh Size &gt;14 in) for Swordfish and Thresher Shark</b>						
Bottlenose dolphin - California / Oregon / Washington Offshore	Tursiops truncatus	2007-2011	1.60	INDIVIDUAL	0.96	
California sea lion - U.S.	Zalophus californianus	2005-2009	41.00	INDIVIDUAL	0.28	
Long-beaked common dolphin - California / Oregon / Washington	Delphinus capensis	2006-2010	4.00	INDIVIDUAL	1.01	
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	2007-2011	11.60	INDIVIDUAL	0.88	
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	
Sperm whale - California / Oregon / Washington	Physeter macrocephalus	2006-2010	3.20	INDIVIDUAL	0.95	
<b>Fishery Total</b>			113.40			
<b>West Coast Groundfish Non-Trawl Gear: Limited Entry Sablefish-Endorsed Fixed Gear</b>						
Northern elephant seal	Mirounga angustirostris	2009-2013	1.70	INDIVIDUAL	0.50	
Sea lions (unidentified)	Otariidae	2009-2013	2.70	INDIVIDUAL	0.55	
<b>Fishery Total</b>			4.40			
<b>West Coast Groundfish Non-Trawl Gear: Non-Endorsed Fixed Gear</b>						
Bottlenose dolphin	Tursiops truncatus	2009-2013	5.40	INDIVIDUAL	0.45	
Harbor seal	Phoca vitulina richardii	2009-2013	4.30	INDIVIDUAL	0.41	
<b>Fishery Total</b>			9.70			
<b>West Coast Limited Entry Bottom Trawl; Fixed Gear</b>						
Northern elephant seal	Mirounga angustirostris	2011-2013	0.70	INDIVIDUAL	0.63	
<b>Fishery Total</b>			0.70			
<b>West Coast Limited Entry Bottom Trawl; Groundfish Bottom and Midwater Trawl</b>						
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	
<b>Fishery Total</b>			18.00			
<b>West Coast Mid-Water Trawl for Whiting, At-Sea Processing</b>						
California sea lion - U.S.	Zalophus californianus	2009-2013	1.60	INDIVIDUAL	0.23	
Northern elephant seal	Mirounga angustirostris	2009-2013	1.60	INDIVIDUAL	0.23	
Sea lions (unidentified)	Otariidae	2009-2013	0.60	INDIVIDUAL	0.48	

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	CV	FOOTNOTE(S)
Steller sea lion - Western U.S.	Eumetopias jubatus	2009-2013	2.80	INDIVIDUAL	0.28	
<b>Fishery Total</b>			6.60			
<b>West Coast Mid-Water Trawl for Whiting, Shoreside Processing</b>						
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	
<b>Fishery Total</b>			0.60			
<b>Grand Total</b>			373.00			

#### WEST COAST REGION MARINE MAMMAL BYCATCH BY STOCKS AND SPECIES

COMMON NAME	SCIENTIFIC NAME	YEAR	BYCATCH	UNIT	FOOTNOTE(S)
Bottlenose Dolphin	Tursiops truncatus	2009-2013	5.40	INDIVIDUAL	
Bottlenose Dolphin - California / Oregon / Washington Offshore	Tursiops truncatus	2007-2011	1.60	INDIVIDUAL	
California Sea Lion - U.S.	Zalophus californianus	2011-2013	6.30	INDIVIDUAL	
California Sea Lion - U.S.	Zalophus californianus	2009-2013	18.80	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	2009-2013	4.30	INDIVIDUAL	
Harbor Seal - California	Phoca vitulina richardii	2007	11.00	INDIVIDUAL	
Long-Beaked Common Dolphin - California / Oregon / Washington	Delphinus capensis	2006-2010	5.40	INDIVIDUAL	
Northern Elephant Seal	Mirounga angustirostris	2009-2013	3.30	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	2007-2011	11.60	INDIVIDUAL	
Risso'S Dolphin - California / Oregon / Washington	Grampus griseus	2004-2008	1.40	INDIVIDUAL	
Sea Lions (Unidentified) (Group)	Otariidae	2009-2013	3.30	INDIVIDUAL	
Short-Beaked Common Dolphin - California / Oregon / Washington	Delphinus delphis	2004-2008	47.00	INDIVIDUAL	
Sperm Whale - California / Oregon / Washington	Physeter macrocephalus	2006-2010	3.20	INDIVIDUAL	
Steller Sea Lion - Western U.S.	Eumetopias jubatus	2011-2013	11.00	INDIVIDUAL	
Steller Sea Lion - Western U.S.	Eumetopias jubatus	2009-2013	2.80	INDIVIDUAL	
<b>GRAND TOTAL</b>			<b>373.00</b>	<b>INDIVIDUAL</b>	

#### 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.