

## RECENT YEAR CATCH ESTIMATES RELEVANT TO DECIDING A RANGE OF 2013-2014 ALLOCATIONS

1. September 2011 Groundfish Management Team Scorecard: This is the most recent scorecard, under the 2011 regulations (76FR27508, published May 2011), updated with the latest West Coast Groundfish Observer Data (2009 bycatch rates), tribal impacts, exempted fishing permits impacts, and research impacts. Bocaccio, canary, cowcod, petrale sole, and yelloweye allocations are based on the Council's recommendations for two-year allocations while darkblotched, Pacific Ocean Perch, and widow values represent the Amendment 21 allocations.
2. 2011-2012 Allocation Values and Percentages from Final Council Action in June 2010.
3. Historical Scorecard Percentages for Overfished Species, After Removing Set-Asides. These are the percentages adopted by the Council during the 2005-2006, 2007-2008, and 2009-2010 cycles. Percentages for the limited entry whiting trawl fishery are based on bycatch limits analyzed in the Environmental Impact Statement and may not represent the actual values specified in Federal regulation. The canary and yelloweye rockfish percentages for the California recreational fishery are based on the harvest guidelines for specified in regulation for each biennium. The canary and yelloweye rockfish percentages for the Washington and Oregon recreational fisheries represent the informal sharing agreements between the states in order to stay within the federally specified harvest guidelines north of 42° N. lat. In 2005-2006, values for the fixed gear nearshore values, sablefish daily trip limit are included in the open access groundfish directed row.
4. Table 19. Estimated total fishing mortality (mt) of major west coast groundfish species in 2010 by sector. Excerpt from the Estimated Discard and Total Catch of Selected Groundfish Species in the 2010 U.S. West Coast Fisheries (October 2011).
5. Table 19. Estimated total fishing mortality (mt) of major west coast groundfish species in 2009 by sector. Excerpt from the Estimated Discard and Total Catch of Selected Groundfish Species in the 2009 U.S. West Coast Fisheries (October 2010).
6. Estimated Total Mortality of Overfished Species in the Recreational Fisheries from 2005-2010. These data were provided by state staff and represent updates and corrections that occurred since the publication of the 2007 & 2008 Estimated Discard and Total Catch of Selected Groundfish Species in the U.S. West Coast Fisheries reports.

**Attachment 1. September 2011 Scorecard. Allocations<sup>a</sup> and projected mortality impacts (mt) of overfished groundfish species for 2011. Bolded numbers represent updates since the June Council meeting.**

Fishery	Bocaccio b/		Canary		Cowcod b/		Dkbl		Petrale		POP		Widow		Yelloweye	
	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts	Allocation a/	Projected Impacts
<b>Date: 15 Sept, 2011</b>																
<b>Off the Top Deductions</b>	13.4	13.4	20.0	19.7	0.3	0.3	18.7	18.7	65.4	64.5	12.8	12.9	61.0	58.6	5.9	5.1
EFPc/	11.0	11.0	1.3	1.0	0.2	0.2	1.5	1.5	2.0	2.0	0.1	0.1	11.0	8.7	0.1	0.0
Research d/	1.7	1.7	7.2	7.2	0.1	0.1	2.1	2.1	17.0	17.0	1.8	1.8	1.6	1.6	3.3	<b>2.6</b>
Incidental OA e/	0.7	0.7	2.0	2.0	--	--	15.0	15.0	1.0	1.0	0.0	0.1	3.3	3.3	0.2	0.2
Tribal f/			9.5	9.5			0.1	0.1	45.4	45.4	10.9	10.9	45.0	45.0	2.3	2.3
<b>Trawl Allocations</b>	60.0	60.0	34.1	34.1	1.8	1.8	265.0	265.0	876.0	876.0	137.0	137.0	491.0	491.0	0.6	0.6
---SB Trawl	60.0	60.0	25.9	25.9	1.8	1.8	250.5	250.5	871.0	871.0	119.6	119.6	342.1	342.1	0.6	0.6
---At-Sea Trawl			8.2	8.2			14.5	14.5	5.0	5.0	17.4	17.4	147.9	147.9		
a) At-sea whiting MS			3.4	3.4			6.0	6.0			7.2	7.2	61.2	61.2		
b) At-sea whiting CP			4.8	4.8			8.5	8.5			10.2	10.2	86.7	86.7		
<b>Non-Trawl Allocation</b>	189.6	55.9	29.8	17.2	0.9	0.2	14.0	5.8	35.0	0.0	7.0	0.4	49.0	10.0	10.5	9.8
Non-Nearshore	57.9		2.3													
LEFG				1.4				4.8				0.3		0.1	0.8	0.8
OA FG				0.2				0.8				0.1		0.0	0.1	0.1
Directed OA: Nearshore	0.7	0.5	4.0	<b>3.2</b>		0.0		0.2						0.2	1.1	1.0
Recreational Groundfish																
WA			2.0	0.7				--		--		--		--	2.6	2.5
OR			7.0	2.4				--		--		--		1.0	2.4	<b>2.3</b>
CA	131.0	55.4	14.5	9.3		0.2		--		--		--		8.7	3.1	3.1
<b>TOTAL</b>	263.0	129.3	83.9	71.0	3.0	2.3	297.7	289.5	976.4	940.5	156.8	150.3	601.0	559.6	17.0	15.5
2011 Harvest Specification	263	263	102	102	3.0	3.0	298	298	976	976	157	157	600	600	17	17
<b>Difference g/</b>	0.0	133.7	18.1	31.0	0.0	0.7	0.3	8.5	-0.4	35.5	0.2	6.7	-1.0	40.4	0.0	1.5
<b>Percent of OY</b>	100.0%	49.2%	82.3%	69.6%	100.0%	76.7%	99.9%	97.1%	100.0%	96.4%	99.9%	95.7%	100.2%	93.3%	100.0%	91.2%
Key			= not applicable													
			= trace, less than 0.1 mt													
			= Fixed Values													
			= off the top deductions													

a/ Formal allocations are represented in the black shaded cells and are specified in regulation in Tables 1b and 1e. The other values in the allocation columns are 1) off the top deductions, 2) set asides from the trawl allocation (at-sea petrale only) 3) ad-hoc allocations recommended in the 2011-12 EIS process, 4) HG for the recreational fisheries for canary and YE.

b/ South of 40°10' N. lat.

c/ EFPs are amounts set aside to accommodate anticipated applications. Values in this table represent the estimates from the 11-12 biennial cycle, which are currently specified in regulation.

d/ Includes NMFS trawl shelf-slope surveys, the IPHC halibut survey, and expected impacts from SRPs and LOAs.

e/ The GMT's best estimate of impacts as analyzed in the 2011-2012 Environmental Impact Statement (Appendix B), which are currently specified in regulation.

f/ Tribal values in the allocation column represent the the values in regulation. Projected impacts are the tribes best estimate of catch.

g/ Petrale and widow allocations round higher than the ACL as a result of rounding issues. Projected impacts are under the ACL; there is no conservation concern.

Table 2. Allocation Values and Percentages from Final Council Action in June 2010.

2011 Percentages from Final Action in June 2010								
Sector	Bocaccio	Percentage	Canary	Percentage	Cowcod	Percentage	Yelloweye	Percentage
Shorebased Trawl, incl. whiting	60	24.0%	20.0	31.3%	1.8	66.7%	0.6	5.4%
At-Sea Whiting	0	0.0%	14.1	22.1%		0.0%	0.0	0.0%
Nearshore	0.7	0.3%	4.0	6.3%		0.0%	1.1	9.9%
Non-nearshore	57.9	23.2%	2.3	3.6%	0.9	33.3%	1.3	11.7%
Rec: WA	0	0.0%	2.0	3.1%			2.6	23.4%
Rec: OR	0	0.0%	7.0	11.0%			2.4	21.6%
Rec: CA	131	52.5%	14.5	22.7%			3.1	27.9%
Sub-Total	249.6	100.0%	63.9	100.0%	2.7	100.0%	11.1	100.0%

2012 Percentages from Final Action in June 2010								
Sector	Bocaccio	Percentage	Canary	Percentage	Cowcod	Percentage	Yelloweye	Percentage
Shorebased Trawl, incl. whiting	60	24.0%	20.0	31.0%	1.8	66.7%	0.6	5.4%
At-Sea Whiting	0	0.0%	14.8	22.9%		0.0%	0.0	0.0%
Nearshore	0.7	0.3%	4.0	6.2%		0.0%	1.1	9.9%
Non-nearshore	57.9	23.2%	2.3	3.6%	0.9	33.3%	1.3	11.7%
Rec: WA	0	0.0%	2.0	3.1%			2.6	23.4%
Rec: OR	0	0.0%	7.0	10.8%			2.4	21.6%
Rec: CA	131	52.5%	14.5	22.4%			3.1	27.9%
Sub-Total	249.6	100.0%	64.6	100.0%	2.7	100.0%	11.1	100.0%

Table 3. Historical Scorecard Percentages for Overfished Species, After Removing Set-Asides.

<b>Fishery</b>	<b>Year</b>	<b>Bocaccio</b>	<b>Canary</b>	<b>Cowcod</b>	<b>Yelloweye</b>
Limited Entry Trawl- Non-whiting	2005-2006	42.3%	24.0%	38.5%	2.4%
	2007-2008	34.7%	24.1%	87.5%	0.7%
	2009-2010	11.8%	19.1%	81.3%	5.6%
Limited Entry Trawl - Whiting	2005-2006	0.0%	21.9%	0.0%	2.4%
	2007-2008	0.0%	14.3%	0.0%	0.0%
	2009-2010	0.0%	22.2%	0.0%	0.0%
Limited Entry Fixed Gear	2005-2006	11.5%	2.7%	7.7%	14.8%
	2007-2008	9.7%	2.7%	3.1%	16.8%
	2009-2010	12.9%	1.2%	6.3%	12.1%
Open access Groundfish Directed c/	2005-2006	9.1%	3.0%	7.7%	3.6%
Sablefish DTL + Other	2007-2008	7.7%	0.3%	0.0%	2.2%
	2009-2010	10.2%	0.1%	6.3%	2.8%
Fixed Gear Nearshore	2007-2008	0.0%	6.1%	0.0%	15.3%
	2009-2010	0.2%	3.3%	0.0%	5.6%
WA - Rec	2005-2006	0.0%	5.7%	0.0%	30.8%
	2007-2008	0.0%	5.2%	0.0%	25.5%
	2009-2010	0.0%	6.0%	0.0%	25.2%
OR - Rec	2005-2006	0.0%	14.7%	0.0%	24.3%
	2007-2008	0.0%	19.8%	0.0%	24.1%
	2009-2010	0.0%	19.7%	0.0%	22.4%
CA - Rec	2005-2006	37.0%	27.9%	46.2%	21.9%
	2007-2008	47.9%	27.4%	9.4%	15.3%
	2009-2010	64.8%	28.2%	6.3%	26.2%

c/ Contains sablefish DTL, other, and fixed gear nearshore.

**Table 19.** Estimated fishing mortality (mt) of major west coast groundfish species in 2010 by sector.

	Shoreside commercial fisheries						WA tribal landings	All at-sea hake fisheries	Recreational fishing mortality			Research	Incidental fisheries	Estimated fishing mortality
	LE bottom trawl	CA halibut	Pink shrimp	Non-nearshore fixed gear	Nearshore fixed gear	Non-tribal shoreside hake			WA	OR	CA			
	<b>Rebuilding species</b>													
Bocaccio (South of 40°10' N. lat.)	12.9	--	--	0.9	0.5	--	NA	NA	NA	NA	57.2	0.6	0.1	72.3
Canary rockfish	2.4	--	0.0	0.0	5.9	4.0	8.2	1.2	1.0	4.2	14.5	1.9	0.1	43.2
Cowcod (South of 40°10' N. lat.)	0.6	--	--	--	--	--	NA	NA	NA	NA	0.4	0.1	0.0	1.2
Darkblotched rockfish	287.3	--	12.1	16.1	0.1	6.7	0.2	8.2	--	--	--	1.0	0.2	332.0
Pacific ocean perch (North of 40°10' N. lat.)	130.1	--	0.1	3.8	--	6.2	0.3	16.8	--	0.0	--	1.7	0.1	159.0
Widow rockfish	25.5	--	0.1	0.1	0.1	54.1	46.6	44.5	--	0.2	0.7	1.4	0.0	173.3
Yelloweye rockfish	0.1	--	0.0	0.3	0.1	--	0.4	0.0	2.0	2.8	1.3	0.5	--	7.6
<b>Non-rebuilding species</b>														
Arrowtooth flounder	3959.0	--	22.8	75.2	0.0	8.3	3.3	13.0	--	0.0	--	8.0	0.1	4089.6
Black rockfish (North of 46°16' N. lat.)	--	--	--	--	--	--	0.0	--	199.4	NA	NA	0.0	--	199.5
Black rockfish (South of 46°16' N. lat.)	0.3	--	--	--	153.2	--	--	--	NA	316.5	179.8	0.0	0.2	650.0
Cabazon (South of 42° N. lat.)	--	--	--	--	23.3	--	--	--	NA	NA	23.8	0.0	0.0	47.1
California scorpionfish (South of 34°27' N. lat.)	--	0.4	--	--	3.0	--	--	NA	NA	NA	63.0	0.0	0.3	66.7
Chilipepper rockfish (South of 40°10' N. lat.)	370.7	--	--	0.2	0.0	--	--	NA	NA	NA	2.8	1.7	0.0	375.5
Dover sole	10842.7	0.0	3.0	14.2	0.0	1.2	56.7	1.9	--	0.0	--	31.1	0.8	10951.7
English sole	239.6	4.0	2.5	0.0	--	0.2	62.3	0.0	--	0.0	0.0	2.5	0.0	311.2
Lingcod (North of 42° N. lat.)	57.3	--	0.1	22.8	21.5	1.8	34.2	1.0	67.8	90.2	NA	2.2	2.7	301.7
Lingcod (South of 42° N. lat.)	24.6	0.5	0.0	6.2	18.8	0.0	--	--	NA	NA	96.4	0.3	1.1	147.9
Longnose Skate	1266.0	0.1	0.4	103.2	0.0	0.1	1.3	0.6	--	0.0	--	1.7	13.0	1386.5
Other flatfish	956.0	29.7	49.4	2.6	1.0	6.8	17.8	10.4	1.5	0.5	43.7	16.6	8.3	1144.3
Other groundfish														
Big skate	33.0	24.5	--	1.3	--	--	--	0.3	--	0.0	--	1.7	0.0	60.9
Cabazon (Oregon)	0.0	--	--	--	23.6	--	--	--	5.4	19.6	NA	--	0.0	48.7
Kelp greenling	0.0	--	--	--	20.4	--	--	--	2.8	25.4	10.5	0.0	--	59.2
Other Skates	202.2	20.8	0.0	18.3	0.1	0.8	23.6	--	1.1	--	--	0.1	8.8	275.8
Spiny dogfish	520.1	2.9	16.4	254.1	0.1	124.6	6.9	277.7	--	0.1	1.6	10.2	0.4	1215.1
Unspecified grenadiers	299.3	--	--	64.6	0.1	--	--	0.0	--	--	--	--	0.6	364.7
Other	135.9	1.1	0.4	7.9	1.5	3.6	0.5	0.7	--	0.0	35.5	15.5	3.8	206.5
Minor rockfish (North of 40°10' N. lat.)														
Nearshore														
Blue rockfish	--	--	--	--	10.9	--	--	--	2.6	23.0	3.7	0.0	--	40.2
Remaining nearshore rockfish	0.0	--	--	--	8.4	0.0	--	--	6.4	13.9	6.2	0.0	0.0	34.9

Note: A value is (--) when the species was neither caught nor discarded (no value). Values appear as 0.0 when a value is smaller than one decimal place.

Table 19 (continued).

	Shoreside commercial fisheries						WA tribal landings	All at-sea hake fisheries	Recreational fishing mortality			Research	Incidental fisheries	Estimated fishing mortality
	LE bottom trawl	CA halibut	Pink shrimp	Non-nearshore fixed gear	Nearshore fixed gear	Non-tribal shoreside hake			WA	OR	CA			
<b>Non-rebuilding species (cont.)</b>														
Minor rockfish (North of 40°10' N. lat.) (cont.)														
Shelf														
Bocaccio	0.2	--	0.0	0.2	--	0.0	0.0	1.9	0.8	0.1	--	0.0	0.0	3.2
Chilipepper rockfish	0.5	--	0.0	0.0	--	20.8	--	1.1	--	--	--	0.4	0.0	22.8
Greenspotted rockfish	0.1	--		0.0	--	--	--	--	--	0.0	0.0	0.0	0.0	0.2
Greenstriped rockfish	6.6	--	1.7	0.2	--	--	0.0	0.0	--	--	--	0.0	0.0	8.6
Redstripe rockfish	0.1	--	0.0	0.2	--	0.4	10.8	0.2	--	--	--	0.0	--	11.7
Silvergray rockfish	3.5	--	--	0.1	0.0	0.0	0.0	0.5	--	--	--	0.1	--	4.2
Remaining shelf rockfish	6.1	--	1.5	1.0	2.5	1.1	0.5	0.0	0.8	5.1	7.2	0.0	0.5	26.2
Slope														
Sharpchin rockfish	8.5	--	0.0	0.1	--	0.0	0.0	0.0	--	--	--	0.3	0.0	8.9
Splitnose rockfish	59.9	--	0.2	0.3	0.0	22.3	0.0	43.6	--	--	--	1.5	0.0	127.8
Yellowmouth rockfish	3.3	--	0.0	1.0	--	--	0.0	0.1	--	--	--	0.0	0.3	4.7
Remaining slope rockfish	232.0	--	0.1	117.1	0.0	23.5	24.2	21.5	--	0.0	--	0.2	1.7	420.4
Unspecified rockfish	--	--	--	--	--	--	--	--	--	--	--	3.7	--	3.7
Minor rockfish (South of 40°10' N. lat.)														
Nearshore														
Blue rockfish	--	--	--	--	3.1	--	--	NA	NA	NA	42.3	0.0	0.0	45.5
Gopher rockfish	--	--	--	--	28.8	--	--	NA	NA	NA	76.9	--	0.0	105.7
Remaining nearshore rockfish	0.0	0.0	--	--	60.0	--	--	NA	NA	NA	172.3	0.0	0.1	232.5
Shelf														
Greenspotted rockfish	0.2	--	--	0.8	0.0	--	--	NA	NA	NA	11.5	0.1	0.0	12.6
Greenstriped rockfish	2.8	--	--	0.1	--	--	--	NA	NA	NA	0.8	0.0	--	3.6
Yellowtail rockfish	0.1	--	--	0.4	0.2	--	--	NA	NA	NA	24.0	0.3	0.3	25.4
Remaining shelf rockfish	18.2	0.0	--	5.6	7.1	--	--	NA	NA	NA	175.2	2.1	1.3	209.5
Slope														
Bank rockfish	13.9	--	--	0.1	0.0	--	--	NA	NA	NA	0.1	0.2	--	14.3
Blackgill rockfish	61.4	--	--	84.2	0.5	--	--	NA	NA	NA	--	0.5	5.8	152.3
Sharpchin rockfish	0.6	--	--	--	--	--	--	NA	NA	NA	--	0.0	--	0.6
Remaining slope rockfish	6.8	0.0	--	8.5	0.0	--	--	NA	NA	NA	--	0.0	0.1	15.4
Unspecified rockfish	--	--	--	--	--	--	--	NA	NA	NA	--	4.0	--	4.0
Pacific cod (North of 43° N. lat.)	99.6	--	0.1	2.9	--	0.1	242.4	0.0	0.2	0.0	NA	1.2	0.0	346.5
Pacific hake	758.3	--	398.9	0.6	--	*56150.05	1967.9	106308.0	--	0.0	0.0	133.4	0.0	165717.2
Petrale sole	900.3	0.1	1.2	0.4	0.0	0.1	30.5	--	--	0.1	0.3	2.9	0.2	936.2

\* Includes a discard estimate of 214 mt, based on Electronic Monitoring (EM) data and Office of Law Enforcement (OLE) reports.

Note: A value is (--) when the species was neither caught nor discarded (no value). Values appear as 0.0 when a value is smaller than one decimal place.

Table 19 (continued).

	Shoreside commercial fisheries						WA tribal landings	All at-sea hake fisheries	Recreational fishing mortality			Research	Incidental fisheries	Estimated fishing mortality
	LE bottom trawl	CA halibut	Pink shrimp	Non-nearshore fixed gear	Nearshore fixed gear	Non-tribal shoreside hake			WA	OR	CA			
<b>Non-rebuilding species (cont.)</b>														
Sablefish (North of 36° N. lat.)	2748.4	--	1.2	2768.8	2.3	18.1	579.5	12.4	--	0.1	0.0	25.7	9.8	6166.5
Sablefish (South of 36° N. lat.)	--	--	--	846.9	7.6	--	--	NA	NA	NA	--	1.0	183.4	1038.9
Shortbelly rockfish	4.4	--	0.2	--	--	0.2	--	0.0	--	--	--	1.8	--	6.7
Splitnose rockfish (South of 40°10' N. lat.)	136.7	--	--	0.1	--	--	--	NA	NA	NA	--	2.9	0.0	139.8
Starry flounder	30.4	2.5	--	0.0	0.1	0.3	0.0	--	--	3.0	2.0	0.0	0.1	38.4
Thornyheads														
Longspine thornyhead (North of 34°27' N. lat.)	1695.0	--	--	10.6	--	0.0	0.0	0.0	--	--	--	12.8	0.1	1718.6
Longspine thornyhead (South of 34°27' N. lat.)	--	--	--	24.4	0.0	--	--	NA	NA	NA	--	1.3	0.0	25.7
Shortspine thornyhead (North of 34°27' N. lat.)	1177.5	--	0.2	83.7	0.2	10.3	16.0	4.0	--	--	--	3.5	12.8	1308.1
Shortspine thornyhead (South of 34°27' N. lat.)	--	--	--	171.8	0.1	--	--	NA	NA	NA	--	0.7	0.1	172.7
Mixed thornyheads	31.5	--	--	6.1	--	--	--	--	--	--	--	--	0.0	37.7
Yellowtail rockfish (North of 40°10' N. lat.)	30.2	--	0.2	0.5	0.9	185.0	535.7	150.1	38.5	7.6	0.4	4.2	1.5	954.8
<b>Non-groundfish species</b>														
California halibut	54.7	74.0	--	0.2	1.8	--	--	--	--	0.1	--	--	116.3	247.1
Dungeness crab	265.9	250.5	0.8	3.0	2.9	0.5	1420.5	--	--	--	--	0.0	22615.7	24559.8
Eulachon	0.0	--	18.9	--	--	0.0	--	--	--	0.0	--	0.1	--	19.1
Other non-FMP flatfish	65.8	6.9	115.2	0.0	0.0	--	--	--	--	--	--	0.0	3.5	191.5
Other non-FMP skate	125.9	0.0	0.1	6.0	--	--	--	--	--	--	--	--	--	132.0
Tanner crab	454.5	--	--	6.6	--	--	--	--	--	--	--	--	0.1	461.2

Note: A value is (--) when the species was neither caught nor discarded (no value). Values appear as 0.0 when a value is smaller than one decimal place.

**Table 19.** Estimated total fishing mortality (mt) of major U.S. west coast groundfish species in 2009 by sector.

	Shoreside commercial fisheries						WA tribal landings	All at-sea hake fisheries	Total recreational fishing mortality			Research	Remaining incidental fisheries landings	Estimated total fishing mortality
	LE bottom trawl	CA halibut	Pink shrimp	Non-nearshore fixed gear	Nearshore fixed gear	Non-tribal shoreside hake <sup>1</sup>			WA	OR	CA			
<b>Rebuilding species</b>														
Bocaccio (South of 40°10' N. lat.)	20.4	--	--	1.6	1.0	--	NA	NA	NA	NA	46.4	1.0	0.1	70.6
Canary rockfish	8.9	--	0.0	0.3	3.5	1.8	5.9	2.6	0.5	3.0	11.2	0.5	0.0	38.1
Cowcod (South of 40°10' N. lat.)	0.5	--	--	0.1	0.0	--	NA	NA	NA	NA	0.2	0.1	--	0.9
Darkblotched rockfish	272.4	--	18.3	8.0	0.1	0.6	0.0	0.3	--	--	--	1.5	0.1	301.2
Pacific ocean perch (North of 40°10' N. lat.)	157.7	--	0.4	0.5	--	17.1	0.5	1.6	--	--	--	2.7	0.0	180.5
Widow rockfish	28.5	--	0.0	0.3	0.0	102.7	29.5	26.0	0.0	0.4	1.5	5.3	0.4	194.6
Yelloweye rockfish	0.1	--	--	1.3	0.5	0.0	0.3	0.0	1.6	2.0	3.8	0.7	0.4	10.7
<b>Non-rebuilding species</b>														
Arrowtooth flounder	5314.6	--	20.8	83.4	0.0	2.3	10.5	2.5	--	0.0	--	7.7	1.6	5443.5
Black rockfish (North of 46°16' N. lat.)	0.1	--	--	--	--	--	0.0	--	206.7	NA	NA	0.0	--	206.8
Black rockfish (South of 46°16' N. lat.)	0.5	--	--	--	230.7	--	--	--	NA	309.0	243.7	0.0	0.0	783.9
Cabazon (South of 42° N. lat.)	--	--	--	--	18.7	--	--	--	NA	NA	32.4	0.0	0.0	51.1
California scorpionfish (South of 34°27' N. lat.)	--	0.0	--	--	3.1	--	--	NA	NA	NA	66.7	0.0	0.4	70.2
Chilipepper rockfish (South of 40°10' N. lat.)	304.3	--	--	0.5	0.1	--	--	NA	NA	NA	2.1	3.6	0.1	310.8
Dover sole	12361.4	--	6.6	11.4	0.0	0.0	130.7	0.1	--	0.0	--	29.4	6.5	12546.2
English sole	404.7	0.5	1.1	--	--	0.0	91.3	0.2	--	--	--	2.4	0.3	500.6
Lingcod (North of 42° N. lat.)	127.0	--	0.4	34.2	28.2	0.6	46.1	2.5	54.1	75.5	NA	1.3	2.8	372.7
Lingcod (South of 42° N. lat.)	39.1	0.0	0.1	17.6	20.1	0.0	--	--	--	NA	129.6	1.1	0.5	208.1
Longnose Skate	1275.4	--	2.1	173.3	0.0	0.1	--	0.2	--	--	--	2.8	1.3	1455.1
Other flatfish	1449.0	3.4	31.3	1.6	0.8	0.1	45.4	0.5	1.9	0.3	--	15.7	14.7	1564.7
Other groundfish	1609.8	64.8	0.6	299.3	54.4	16.4	184.5	163.6	7.8	41.4	20.1	27.2	24.4	2514.3
Big skate	78.6	21.8	--	5.8	--	0.0	--	0.1	--	0.0	--	0.3	0.0	106.5
Cabazon (Oregon)	0.1	--	0.0	--	30.3	--	--	--	5.4	18.6	NA	0.0	--	54.4
Kelp greenling	0.0	--	--	--	23.1	--	--	--	1.5	22.7	15.2	0.0	--	62.6
Other Skates	496.5	35.5	--	27.5	0.0	0.2	45.0	0.0	0.9	--	0.0	--	18.6	624.0
Spiny dogfish	665.5	3.2	0.4	216.2	0.0	16.0	125.4	163.4	--	0.1	4.9	10.9	1.0	1206.9
Unspecified grenadiers	203.6	--	--	44.4	--	--	--	--	--	--	0.0	--	--	248.0
Other	165.5	4.4	0.2	5.5	0.9	0.2	14.1	0.2	--	0.0	0.0	16.0	4.8	211.7
Minor rockfish (North of 40°10' N. lat.)	397.4	0.0	5.6	98.2	23.2	7.5	44.6	10.6	5.4	33.2	15.9	8.3	3.3	653.1
Nearshore	0.1	0.0	0.0	0.2	23.2	0.0	0.1	0.0	3.8	28.7	6.8	0.1	--	63.0
Blue rockfish	--	--	--	--	9.1	--	--	--	0.7	16.8	3.2	0.0	--	29.7
Remaining nearshore rockfish	0.1	--	--	0.2	14.1	--	0.1	--	3.1	11.9	3.6	0.1	--	33.3

<sup>1</sup> Non-Tribal Shoreside Hake does not include estimates of catch that was discarded at-sea.

Note: A value is (--) when the species was neither caught nor discarded (no value). Values appear as 0.00 when a value is smaller than two decimal places.



Table 19 (continued).

	Shoreside commercial fisheries						WA tribal landings	All at-sea hake fisheries	Total recreational fishing mortality			Research	Remaining incidental fisheries landings	Estimated total fishing mortality
	LE bottom trawl	CA halibut	Pink shrimp	Non- nearshore fixed gear	Nearshore fixed gear	Non-tribal shoreside hake <sup>1</sup>			WA	OR	CA			
<b>Non-rebuilding species (cont.)</b>														
Minor rockfish (North of 40°10' N. lat.) (cont.)														
Shelf	38.2	0.0	3.6	2.7	0.0	2.5	4.7	1.1	1.6	4.5	9.1	1.3	0.5	69.9
Bocaccio	0.2	--	--	--	--	0.0	--	1.0	1.2	0.1	--	0.0	--	2.5
Chilipepper rockfish	4.2	--	--	0.3	0.0	2.5	--	0.0	--	0.0	--	0.2	0.3	7.4
Greenspotted rockfish	0.1	--	0.0	0.1	0.0	--	--	--	--	--	--	0.0	0.0	0.2
Greenstriped rockfish	17.5	--	1.0	0.6	--	--	--	--	--	0.0	--	0.0	0.0	19.1
Redstripe rockfish	1.0	--	0.0	--	--	--	2.6	0.0	--	--	--	0.6	0.0	4.2
Silvergray rockfish	0.5	--	--	0.2	0.0	--	--	0.0	--	0.0	--	0.1	0.0	0.9
Remaining shelf rockfish	14.8	--	2.6	1.7	--	0.1	2.1	--	0.5	4.3	9.1	0.4	0.1	35.7
Slope	359.1	0.0	2.0	95.2	0.0	4.9	39.7	9.5	0.0	0.0	0.0	3.7	2.8	517.0
Sharpchin rockfish	7.3	--	0.0	--	--	0.1	0.0	--	--	--	--	0.9	0.0	8.3
Splitnose rockfish	84.7	--	1.7	1.3	0.0	0.8	0.0	0.1	--	--	--	2.6	0.0	91.2
Yellowmouth rockfish	2.5	--	--	0.4	--	--	--	0.0	--	--	--	0.0	0.0	2.8
Remaining slope rockfish	264.6	--	0.3	93.6	--	4.1	39.7	9.4	--	--	--	0.2	2.8	414.6
Unspecified rockfish	--	--	--	--	--	--	--	--	--	--	--	3.2	--	3.2
Minor rockfish (South of 40°10' N. lat.)														
Nearshore	0.1	0.0	0.0	0.0	89.6	--	--	NA	NA	NA	297.9	0.2	0.2	388.0
Blue rockfish	--	--	--	--	3.3	--	--	NA	NA	NA	41.6	0.0	0.0	44.9
Gopher rockfish	--	--	--	--	26.4	--	--	NA	NA	NA	59.5	0.0	0.0	85.9
Remaining nearshore rockfish	0.1	0.0	--	--	59.9	--	--	NA	NA	NA	196.9	0.2	0.2	257.2
Shelf	14.6	0.0	0.0	7.9	0.4	0.0	0.0	0.0	0.0	0.0	246.1	2.3	1.7	273.0
Greenspotted rockfish	0.3	--	--	0.6	0.0	--	--	NA	NA	NA	--	0.1	0.0	1.1
Greenstriped rockfish	1.2	--	--	0.2	0.0	--	--	NA	NA	NA	1.7	0.0	--	3.1
Yellowtail rockfish	0.4	--	--	0.6	0.4	--	--	NA	NA	NA	48.9	0.3	--	50.6
Remaining shelf rockfish	12.7	0.0	--	6.5	--	--	--	NA	NA	NA	195.5	1.8	1.7	218.2
Slope	133.7	0.0	0.0	90.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	230.6
Bank rockfish	51.1	--	--	0.2	0.0	--	--	NA	NA	NA	0.0	0.1	0.1	51.6
Blackgill rockfish	48.0	--	--	82.1	2.4	--	--	NA	NA	NA	--	0.4	3.0	136.0
Sharpchin rockfish	4.8	--	--	0.0	--	--	--	NA	NA	NA	--	0.1	--	4.9
Remaining slope rockfish	29.8	0.0	--	8.1	--	--	--	NA	NA	NA	--	0.0	0.3	38.1
Unspecified rockfish	--	--	--	--	--	--	--	--	--	--	--	5.3	--	5.3
Pacific cod (North of 43° N. lat.)	96.6	--	--	1.4	--	0.0	147.1	0.5	0.1	0.0	NA	0.1	2.0	248.0
Pacific hake	937.0	--	1937.1	1.9	--	38276.4	8928.8	72048.6	--	0.0	0.1	34.7	0.0	122164.7
Petrale sole	1903.5	0.1	0.3	0.2	--	0.0	69.4	--	--	0.0	0.6	2.1	1.3	1977.6

<sup>1</sup> Non-Tribal Shoreside Hake does not include estimates of catch that was discarded at-sea.

Note: A value is (--) when the species was neither caught nor discarded (no value). Values appear as 0.00 when a value is smaller than two decimal places.

Table 19 (continued).

	Shoreside commercial fisheries						WA tribal landings	All at-sea hake fisheries	Total recreational fishing mortality			Research	Remaining incidental fisheries landings	Estimated total fishing mortality
	LE bottom trawl	CA halibut	Pink shrimp	Non-nearshore fixed gear	Nearshore fixed gear	Non-tribal shoreside hake <sup>1</sup>			WA	OR	CA			
<b>Non-rebuilding species (cont.)</b>														
Sablefish (North of 36° N. lat.)	3148.9	--	0.9	2771.5	--	21.6	636.6	0.2	--	0.5	0.0	10.6	34.1	6624.8
Sablefish (South of 36° N. lat.)	19.6	--	--	649.3	--	--	--	NA	--	NA	0.0	1.7	105.5	776.1
Shortbelly rockfish	8.0	--	--	--	0.0	0.0	--	--	--	--	--	1.1	--	9.2
Splitnose rockfish (South of 40°10' N. lat.)	193.7	--	--	0.3	--	--	--	NA	--	NA	--	9.3	0.1	203.4
Starry flounder	19.8	4.0	0.0	0.0	0.1	0.0	0.0	--	--	3.0	0.8	0.0	0.6	28.2
Thornyheads	3087.9	0.0	0.4	232.5	0.2	0.1	30.7	0.5	0.0	0.0	0.0	16.9	7.7	3376.9
Longspine thornyhead (North of 34°27' N. lat.)	1565.5	--	--	1.0	--	0.0	0.0	--	--	--	--	11.7	3.3	1581.6
Longspine thornyhead (South of 34°27' N. lat.)	--	--	--	19.7	0.0	--	--	NA	--	NA	--	0.8	0.0	20.5
Shortspine thornyhead (North of 34°27' N. lat.)	1475.0	--	0.4	42.1	0.2	0.1	30.7	0.5	--	--	--	3.8	4.2	1557.1
Shortspine thornyhead (South of 34°27' N. lat.)	--	--	--	166.8	--	--	--	NA	--	NA	--	0.6	0.1	167.5
Mixed thornyheads	47.3	--	--	2.9	0.0	0.0	--	0.0	--	--	--	--	--	50.2
Yellowtail rockfish (North of 40°10' N. lat.)	21.3	--	0.3	0.5	1.2	65.7	449.3	177.0	23.7	9.3	1.0	1.4	0.5	751.1
<b>Non-groundfish species</b>														
California halibut	48.4	88.1	--	0.4	4.0	--	--	--	--	--	235.0	--	153.1	529.0
Dungeness crab	180.3	159.9	0.2	1.3	9.0	0.0	879.1	--	--	--	--	--	21259.1	22489.0
Eulachon	0.0	--	10.8	--	--	--	--	0.0	--	0.0	--	--	--	10.8
Other non-FMP flatfish	69.8	1.2	67.3	0.1	0.0	--	--	--	--	--	--	--	0.0	138.5
Other non-FMP skate	138.9	--	0.0	7.7	--	--	--	--	--	--	--	--	--	146.6
Tanner crab	507.0	--	--	1.6	--	--	--	--	--	--	--	--	0.0	508.6

<sup>1</sup> Non-Tribal Shoreside Hake does not include estimates of catch that was discarded at-sea.

Note: A value is (--) when the species was neither caught nor discarded (no value). Values appear as 0.00 when a value is smaller than two decimal places.

Table 6. 2005 to 2010 Estimated Total Mortality of Overfished Species in the Recreational Fisheries.

Species	Year	State	Mortality (mt)	Harvest Guideline*	% of Harvest Guideline
Bocaccio south 40°10 N. Lat	2005	CA	39.1	N/A	N/A
	2006	CA	42.5		
	2007	CA	53.6		
	2008	CA	34.8		
	2009	CA	50.0		
	2010	CA	56.6		
Canary	2005	CA	3.9	9.3	42%
		OR	4.9	6.7	73%
		WA	1.9	1.8	108%
	2006	CA	12.5	9.3	134%
		OR	2.9	6.7	43%
		WA	1.1	1.8	62%
	2007	CA	10.9	9	121%
		OR	2.5	6.5	38%
		WA	1.2	1.7	71%
	2008	CA	5.6	9	62%
		OR	3.0	6.5	46%
		WA	0.7	1.7	41%
	2009	CA	12.0	22.9	52%
		OR	3.0	16	19%
		WA	0.5	4.9	10%
	2010	CA	12.9	22.9	56%
		OR	4.2	16	26%
		WA	1	4.9	20%
Cowcod south 40°10 N. Lat	2005	CA	0.2	N/A	N/A
	2006	CA	0.2		
	2007	CA	0.3		
	2008	CA	0.3		
	2009	CA	0.3		
	2010	CA	0.2		
Yelloweye	2005	CA	1.9	N/A	N/A
		OR	4.1	N/A	N/A
		WA	5.2		
	2006	CA	3.5		
		OR	2.5	3.3	77%
		WA	1.7	3.4	49%
	2007	CA	8.0	2.1	381%
		OR	2.8	3.3	85%
		WA	2.5	3.5	71%
	2008	CA	1.7	2.1	81%
		OR	3.2	3.3	97%
		WA	2.4	3.5	69%
	2009	CA	3.9	2.8	139%
		OR	2.0	2.4	83%
		WA	1.6	2.7	59%
	2010	CA	1.4	2.8	50%
		OR	2.8	2.9	97%
		WA	2.0	2.6	77%

\*There is one HG Federally specified for WA and OR. Values in the table represent the state's informal agreement for sharing of the Federal HG.