

Preliminary Intersector Allocation Alternatives Recommended by the Council in November 2006.

Feature	Status Quo	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7	Alt. 8
Species with Allocations a/	Sablefish, Pacific whiting, and all nearshore species allocated by the states	Status quo plus all other species	Status quo plus all other species	Status quo plus all other species	Status quo plus all other species	Status quo plus all but overfished species	Status quo plus all but overfished species	Status quo plus all but overfished species	Status quo plus all but overfished species
Sectors with Allocations b/	Status quo described in scoping information document	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational	LE trawl, LE fixed gear, open access, recreational
Variation in Allocation Percentages (Analytical Basis for an Allocation Scheme)	Status quo described in scoping information document	2003-05 sector total catch percentages (option 2A)	2003-05 sector landed catch percentages (option 2B)	1995-2005 sector percentages (option 3)	2007-08 allocations (option 4)	2003-05 sector total catch percentages (option 2A)	2003-05 sector landed catch percentages (option 2B)	1995-2005 sector percentages (option 3)	2007-08 allocations (option 4)
Set-Asides	Set-asides will be determined for projected research catches, EFPs, incidental open access catches, and tribal catches.								

a/ Under any alternative, there may be different allocation schemes decided for overfished versus non-overfished groundfish species.

b/ Tribal allocations may be considered in a separate process (see October Groundfish Allocation Committee minutes for details). Projected tribal catches by species will be considered as set-asides in the analysis of intersector allocation alternatives.

Table 1. Intersector allocation Alternative 1 (SQ + all other spp., 4 non-tribal sectors, 2003-05 total catch %). a/

Stock or Complex	2004-2005 Average Percent				2003 Total Catch				2004 Total Catch				2005 Total Catch			
	LE Trawl	LE Fixed Gear	Directed OA	Rec.	LE Trawl	LE Fixed Gear	Directed OA	Rec.	LE Trawl	LE Fixed Gear	Directed OA	Rec.	LE Trawl	LE Fixed Gear	Directed OA	Rec.
Lingcod - coastwide	29.6%			57.5%				1,206.7				304.2				504.1
N. of 42° (OR & WA)								207.5				174.6				204.3
S. of 42° (CA)								999.2				129.7				299.8
Pacific Cod	98.4%	0.5%	1.1%		1,117.3		11.8	1,103.2 b/	5.2	b/	12.6	727.0	5.0		7.7	
PACIFIC OCEAN PERCH	99.5%	0.5%	0.0%		159.3			155.6	0.1			68.2	1.0			
WIDOW ROCKFISH	87.8%	1.4%	10.8%		46.1	1.3		67.5	0.3		15.3	83.1	2.1		3.2	
CANARY ROCKFISH	61.3%	6.8%	31.9%		22.3	29.7		20.8	3.6		16.4	28.2	1.9		9.1	
Chilipepper Rockfish	93.1%	2.8%	4.1%		23.0	0.0		141.2	3.6		6.0	76.0	3.0		3.6	
BOCACCIO	28.4%	6.7%	64.9%		9.0	c/	10.8	14.8 c/	5.9	c/	62.5	29.3	4.5		38.1 c/	
Splitnose Rockfish	99.7%	0.3%	0.0%		160.4		0.1	163.7 b/	0.1	b/		230.0	1.0			
Yellowtail Rockfish	86.8%	2.1%	11.0%		170.6	23.0		318.8	3.4		35.8	229.0	10.0		33.8	
Shortspine Thornyhead - coastwide	83.9%	16.1%	0.0%		1,226.2		0.1	843.1	134.2		0.0	627.0	147.0			
N. of 34°27'							0.1									
S. of 34°27'											0.0					
Longspine Thornyhead - coastwide	98.4%	1.6%	0.0%		1,895.6			859.2	8.5			723.0	17.0			
N. of 34°27'																
S. of 34°27'																
Other thornyheads																
COWCOD	78.7%	0.0%	21.3%		0.2	c/		0.8 c/	0.0	c/	0.5	1.4	0.0		0.1 c/	
DARKBLOTCHED	98.3%	1.7%	0.0%		136.1			233.0	1.2			105.9	4.8			
YELLOWEYE	5.9%	25.4%	68.7%		2.6		10.2	0.7	3.7		7.0	0.8	2.9		10.9	
Minor Rockfish North							48.5				57.7				85.9	
Shelf Species							6.7				8.3				12.7	
BOCACCIO: N. of Monterrey							1.3				0.4				0.2	
Chilipepper Rockfish: Eureka							0.0				0.0				0.0	
Redstripe Rockfish							0.1				0.0				0.1	
Silvergrey Rockfish							0.1				0.0				0.1	
Other Northern Shelf Rockfish							5.3				7.9				12.4	
Slope Species							0.0				0.0				0.0	
Bank Rockfish																
Sharpchin Rockfish, north																
Splitnose Rockfish: N. of Monterrey																
Yellowmouth Rockfish																
Other Northern Slope Rockfish							0.0				0.0				0.0	
Minor Rockfish South							1,006.6				625.7				691.1	
Shelf Species							365.3				284.6				283.9	
Redstripe Rockfish																
Yellowtail Rockfish							18.9				12.1				8.1	
Other Southern Shelf Rockfish							346.4				272.4				275.9	
Slope Species							2.1				0.5				0.4	
Bank Rockfish							1.0				0.5				0.4	
Blackgill Rockfish	55.6%	44.4%	0.0%					79.7 b/	70.1	b/	0.0	53.0	36.0			
Sharpchin Rockfish																
Yellowmouth Rockfish																
Other Southern Slope Rockfish							1.1									
Dover Sole	99.9%	0.1%	0.0%		8,418.0		0.0	7,483.1	2.5		0.0	7,327.0	6.0		0.0	
English Sole	100.0%	0.0%	0.0%		1,193.3		0.0	1,080.3	0.2			1,151.0	0.0		0.0	
Petrale Sole (coastwide)	100.0%	0.0%	0.0%		2,048.1		0.2	1,936.6	1.1		0.5	2,732.0	0.0		0.3	
N of 40°10'							0.1				0.2				0.2	
S of 40°10'							0.1				0.3				0.1	
Arrowtooth Flounder	99.0%	1.0%	0.0%		3,216.4		0.1	5,643.0	1.4		0.0	3,451.0	87.0		0.0	
Other Flatfish	97.8%	0.2%	2.1%		1,970.8		53.3	1,768.5	4.3		45.5	1,872.0	2.0		31.8	
Spiny Dogfish	74.5%	25.3%	0.2%				18.0	490.9 b/	222.7	b/	2.4	1,290.0	383.0		2.8	
Other Fish							75.7				80.8				100.8	

a/ This table currently depicts only 2004-2005 total catch percentages by non-tribal directed groundfish sector for some species and combines LE fixed gear and directed OA sector catches and percentages due to a lack of discard data in NMFS reports.

b/ Landed catch only.

c/ Discard mortality estimate incomplete due to fewer at-sea observations south of 40°10' N latitude.

Table 2. Intersector allocation Alternative 2 (SQ + all other spp., 4 non-tribal sectors, 2003-05 landed catch %).

Stock or Complex	Non-Treaty Sectors			
	LE Trawl	LE Fixed Gear	Directed OA	Rec.
Lingcod - coastwide	8.5%	1.4%	8.5%	81.6%
N. of 42° (OR & WA)	18.6%	2.9%	11.2%	67.2%
S. of 42° (CA)	3.0%	0.6%	6.9%	89.5%
Pacific Cod	98.5%	0.3%	0.1%	1.1%
PACIFIC OCEAN PERCH	99.8%	0.2%	0.1%	0.0%
WIDOW ROCKFISH	92.1%	0.1%	0.6%	7.3%
CANARY ROCKFISH	34.5%	0.1%	0.1%	65.3%
Chilipepper Rockfish	82.2%	5.6%	2.0%	10.2%
BOCACCI	7.6%	3.1%	4.1%	85.2%
Splitnose Rockfish	99.6%	0.3%	0.1%	0.0%
Yellowtail Rockfish	86.8%	0.3%	0.8%	12.1%
Shortspine Thornyhead - coastwide	81.1%	18.8%	0.1%	0.0%
N. of 34°27'	98.4%	1.5%	0.0%	0.0%
S. of 34°27'	58.0%	41.7%	0.3%	0.0%
Longspine Thornyhead - coastwide	98.5%	1.5%	0.0%	0.0%
N. of 34°27'	99.4%	0.6%	0.0%	0.0%
S. of 34°27'	0.0%	99.2%	0.8%	0.0%
Other thornyheads	57.4%	40.4%	2.2%	0.0%
COWCOD	0.0%	0.0%	0.4%	99.6%
DARKBLOTCHED	98.6%	0.7%	0.8%	0.0%
YELLOWEYE	5.2%	0.4%	0.2%	94.2%
Minor Rockfish North	60.2%	12.6%	9.5%	17.7%
Shelf Species	70.6%	7.2%	5.7%	16.5%
BOCACCI: N. of Monterrey	86.8%	0.0%	0.2%	13.0%
Chilipepper Rockfish: Eureka	100.0%	0.0%	0.0%	0.0%
Redstripe Rockfish	98.9%	0.0%	0.0%	1.1%
Silvergrey Rockfish	91.7%	2.2%	1.4%	4.7%
Other Northern Shelf Rockfish	36.1%	16.4%	12.9%	34.6%
Slope Species	79.9%	17.6%	2.5%	0.0%
Bank Rockfish	100.0%	0.0%	0.0%	0.0%
Sharpchin Rockfish, north	100.0%	0.0%	0.0%	0.0%
Splitnose Rockfish: N. of Monterrey	99.9%	0.0%	0.1%	0.0%
Yellowmouth Rockfish	99.9%	0.1%	0.0%	0.0%
Other Northern Slope Rockfish	74.7%	22.2%	3.1%	0.0%
Minor Rockfish South	15.7%	5.0%	12.5%	66.8%
Shelf Species	1.0%	1.6%	4.6%	92.8%
Redstripe Rockfish	0.0%	0.0%	0.0%	0.0%
Yellowtail Rockfish	9.7%	0.1%	5.1%	85.1%
Other Southern Shelf Rockfish	0.6%	1.6%	4.5%	93.2%
Slope Species	62.6%	18.0%	19.1%	0.3%
Bank Rockfish	81.3%	0.2%	17.7%	0.7%
Blackgill Rockfish	43.6%	32.3%	24.2%	0.0%
Sharpchin Rockfish	0.0%	0.0%	0.0%	0.0%
Yellowmouth Rockfish	0.0%	0.0%	0.0%	0.0%
Other Southern Slope Rockfish	81.4%	10.0%	8.0%	0.7%
Dover Sole	100.0%	0.0%	0.0%	0.0%
English Sole	100.0%	0.0%	0.0%	0.0%
Petrale Sole (coastwide)	100.0%	0.0%	0.0%	0.0%
N of 40°10'	100.0%	0.0%	0.0%	0.0%
S of 40°10'	99.9%	0.0%	0.0%	0.1%
Arrowtooth Flounder	99.9%	0.1%	0.0%	0.0%
Other Flatfish	96.5%	0.0%	0.2%	3.3%
Spiny Dogfish	57.6%	32.1%	8.9%	1.3%
Other Fish	39.6%	9.3%	27.6%	23.4%

Table 3. Intersector allocation Alternative 3 (SQ + all other spp., 4 non-tribal sectors, 1995-2005 landed catch %).

Stock or Complex	Non-Treaty Sectors			
	LE Trawl	LE Fixed Gear	Directed OA	Rec.
Lingcod - coastwide	38.3%	2.7%	11.8%	47.2%
N. of 42° (OR & WA)	57.4%	2.6%	10.3%	29.7%
S. of 42° (CA)	20.5%	2.7%	13.2%	63.6%
Pacific Cod	99.0%	0.3%	0.1%	0.6%
PACIFIC OCEAN PERCH	99.5%	0.4%	0.1%	0.0%
WIDOW ROCKFISH	98.0%	0.2%	1.2%	0.6%
CANARY ROCKFISH	68.1%	6.6%	12.6%	12.6%
Chilipepper Rockfish	78.7%	1.0%	16.6%	3.8%
BOCACCIO	38.9%	1.8%	27.2%	32.2%
Splitnose Rockfish	97.2%	0.4%	2.5%	0.0%
Yellowtail Rockfish	96.3%	0.7%	1.6%	1.4%
Shortspine Thornyhead - coastwide	91.2%	8.3%	0.5%	0.0%
N. of 34°27'	97.9%	1.9%	0.1%	0.0%
S. of 34°27'	78.8%	20.1%	1.1%	0.0%
Longspine Thornyhead - coastwide	98.3%	1.5%	0.3%	0.0%
N. of 34°27'	98.9%	0.9%	0.2%	0.0%
S. of 34°27'	0.3%	88.8%	10.9%	0.0%
Other thornyheads	46.6%	37.0%	16.4%	0.0%
COWCOD	0.0%	10.9%	51.2%	37.8%
DARKBLOTCHED	99.0%	0.6%	0.4%	0.0%
YELLOWEYE	37.8%	18.4%	17.0%	26.9%
Minor Rockfish North	69.2%	16.9%	8.4%	5.4%
Shelf Species	68.4%	21.6%	8.9%	1.2%
BOCACCIO: N. of Monterrey	88.6%	2.5%	7.4%	1.4%
Chilipepper Rockfish: Eureka	93.3%	2.6%	4.1%	0.0%
Redstripe Rockfish	99.7%	0.0%	0.1%	0.2%
Silvergrey Rockfish	98.6%	0.3%	0.9%	0.1%
Other Northern Shelf Rockfish	50.0%	35.5%	12.9%	1.6%
Slope Species	87.5%	11.5%	1.0%	0.0%
Bank Rockfish	96.8%	0.9%	2.3%	0.0%
Sharpchin Rockfish, north	99.8%	0.1%	0.1%	0.0%
Splitnose Rockfish: N. of Monterrey	99.7%	0.2%	0.1%	0.0%
Yellowmouth Rockfish	98.7%	0.6%	0.7%	0.0%
Other Northern Slope Rockfish	77.3%	21.1%	1.6%	0.0%
Minor Rockfish South	23.6%	6.4%	22.4%	47.6%
Shelf Species	13.0%	5.8%	23.6%	57.6%
Redstripe Rockfish	79.8%	1.1%	4.6%	14.5%
Yellowtail Rockfish	21.4%	5.5%	21.4%	51.7%
Other Southern Shelf Rockfish	9.7%	5.9%	24.4%	59.9%
Slope Species	69.9%	12.1%	17.0%	1.0%
Bank Rockfish	84.0%	1.0%	13.2%	1.7%
Blackgill Rockfish	46.5%	28.5%	24.8%	0.3%
Sharpchin Rockfish	99.2%	0.1%	0.6%	0.0%
Yellowmouth Rockfish	99.8%	0.0%	0.2%	0.0%
Other Southern Slope Rockfish	79.7%	8.6%	11.0%	0.7%
Dover Sole	100.0%	0.0%	0.0%	0.0%
English Sole	100.0%	0.0%	0.0%	0.0%
Petrale Sole (coastwide)	99.9%	0.0%	0.1%	0.0%
N of 40°10'	100.0%	0.0%	0.0%	0.0%
S of 40°10'	99.4%	0.1%	0.3%	0.2%
Arrowtooth Flounder	99.9%	0.1%	0.0%	0.0%
Other Flatfish	97.4%	0.0%	0.3%	2.3%
Spiny Dogfish	72.4%	21.9%	4.0%	1.6%
Other Fish	52.5%	18.4%	16.4%	12.8%

Table 4. Intersector allocation Alternative 4 (SQ + all other spp., 4 non-tribal sectors, 2007-08 projections). a/

Stock or Complex	Non-Treaty Sectors							
	LE Trawl		LE Fixed Gear		Directed OA		Rec.	
	Projected annual catch	% Directed Non-Treaty Annual Catch	Projected annual catch	% Directed Non-Treaty Annual Catch	Projected annual catch	% Directed Non-Treaty Annual Catch	Projected annual catch	% Directed Non-Treaty Annual Catch
PACIFIC OCEAN PERCH	95.5	99.5%	0.4	0.4%	0.1	0.1%	0.0	0.0%
WIDOW ROCKFISH	221.6	95.7%	0.5	0.2%	0.1	0.0%	9.4	4.1%
CANARY ROCKFISH	12.8	43.2%	1.1	3.7%	1.7	5.7%	14.0	47.3%
BOCACCIO	26.1	17.6%	13.4	9.0%	10.6	7.2%	98.0	66.2%
COWCOD	1.5	71.4%	0.1	4.8%	0.1	4.8%	0.4	19.0%
DARKBLOTCHED	272.4	99.5%	1.3	0.5%	0.2	0.1%	0.0	0.0%
YELLOWEYE	0.4	2.9%	2.9	21.0%	2.6	18.8%	7.9	57.2%

a/ Only total catch projections for overfished species are available.

Table 4-5. Estimated total mortality (mt) of major West Coast groundfish species from commercial, tribal, and recreational fishing during 2003.

Species	LANDINGS AND MORTALITY			TARGETS	
	Estimated Total Catch	PRELIMINARY Estimated Commercial Fishery Discard Mortality b/	Actual Landings c/	Total Catch ABC	Total Catch OY
Lingcod	1,355.6	70.7	1,284.9	841	651
Pacific Cod	1,323.1	73.5	1,249.6	3,200	3,200
Pacific Whiting d/	142,913.8	1,422.7	141,491.1	188,000	148,200
Sablefish (north)	6,386.6	1,126.1	5,260.5	8,209	6,500
Sablefish (south)	204.0		204.0	441	294
Dover sole	8,342.2	956.6	7,385.7	8,510	7,440
English sole	1,241.4	339.0	902.4	3,100	
Petrale sole	2,160.6	144.4	2,016.2	2,762	
Arrowtooth flounder	3,243.5	904.8	2,338.7	5,800	
Other flatfish	2,093.5	490.7	1,602.8	7,700	
Pacific ocean Perch	160.1	21.9	138.2	689	377
Shortbelly	9.3	2.3	7.0	13,900	13,900
Widow	57.9	16.1	41.8	3,871	832
Canary	48.5	14.2	34.3	272	44
Chilipepper	49.5	15.4	34.1	2,700	2,000
Bocaccio	29.1	8.5	20.6	198	20
Splitnose	118.8	9.3	109.5	615	461
Yellowtail	504.5	22.1	482.4	3,146	3,146
Shortspine Thornyheads e/	1,220.2	387.8	832.4	1,004	955
Longspine Thds. North e/	1,834.8	323.9	1,510.9	2,461	2,461
Longspine Thds. South	0.0			390	195
Cowcod, Monterey	0.4	0.2	0.1	19	2
Cowcod, Conception	0.0		0.0	5	2
Yelloweye	8.1	1.5	6.6	52	22
Darkblotched	139.9	51.8	88.1	205	172
Black Rockfish (north)				615	
Black Rockfish (south)				500	
Black Rockfish Total	1,150.1		1,150.1	1,115	

a/ Preliminary estimates of total catch mortality based on species discard assumptions used when the OYs were set. These assumptions are currently being revised using data from the West Coast Groundfish Observer Program.

b/ Preliminary estimated discard mortality in the commercial fishery. Preliminary trawl discard calculated by applying discard mortality rates from combined 2001-03 West Coast Groundfish Observer data to 2002 trawl logbook data, by area and depth strata. Discard totals estimated for tows recorded in logbooks is expanded using state-specific ratios of fish ticket landings to retained logbook catch. Because tows conducted under EFPs could not currently be completely removed from logbooks and fish tickets, applying fleetwide discard rates to these tows may overstate discard for some shelf species.

In an effort to minimize this problem, rockfish discard from target tonnage caught within the RCA off Oregon was estimated using bycatch rates from that EFP. Since the Washington EFP included full retention of shelf rockfish, no at-sea discard of these species was estimated for tows occurring within the RCA off Washington, or on tows that exceeded the 2-month allowance of arrowtooth flounder outside the EFP. This column also includes at-sea discards of rebuilding species. Preliminary fixed-gear discard in the directed sablefish fisheries is calculated by applying discard mortality rates from combined 2001-03 West Coast Groundfish Observer data to northern sablefish landings data. No logbooks are available for fixed-gear vessels. Because of limited geographic coverage of available data, fixed-gear discard amounts for species off central California are not well estimated at this time.

c/ Includes shoreside commercial and tribal landings from PacFIN, observed total catch including estimated discards in the at-sea whiting fishery, and RecFIN recreational catch plus observed discard mortality (A+B1).

d/ Discards of whiting are estimated from observer data and counted towards the OY inseason.

e/ Includes "unspecified thornyheads" allocated based on ratios estimated from California landings and At Sea north/south ABCs.

Table 10.--Estimated total mortality (mt) of major west coast groundfish species from commercial, tribal, and recreational fishing during 2004.

Target species	2004 metric tons													Management reference points	
	Shore-side commercial fisheries			At-sea landed and discard	Shore-side WA Tribal	State estimates of total recreational fishing mortality			Remaining GMT Scorecard ² Values	Estimated total fishing mortality	Optimum Yield (total catch)	Allowable Biological Catch			
	Total landed catch	Estimated trawl discard	Estimated non-trawl discard ¹			Estimated Total mortality	WA	OR					CA		
				Estimated trawl discard	Estimated non-trawl discard ¹				Estimated Total mortality						
Sablefish ³ mortality	5,079	642	446	5,489	29	712	0	5		6,235	7,510	8,185			
Shortspine ⁴	582	174	89	756	5	6	0	0		767	983	1,030			
Longspine ³	658	137		795	0		0	0		795	2,443	2,461			
Dover	6,777	355		7,132	0	81	0	0		7,213	7,440	8,510			
Petrale	1,961	76		2,037	0	82	0	0		2,119	2,762	2,762			
English	956	193		1,149	0	80				1,229	na	3,100			
Arrowtooth	2,328	3,255		5,583	3	82				5,668	na	5,800			
Otr. Flatfish	1,371	497		1,868	2	19				1,889	na	7,700			
Slope rockfish	1,073	634		1,707	24	23				1,754	na	na			
Yellowtail rockfish ⁵	224	80		304	48	352	24	12		739	4,320	4,320			
Chilipepper ⁶	43	102		145	2		0	0	6	153	2,000	2,700			
Pacific hake	96,365	2,666		99,031	120,736	6,848				226,615	250,000	514,441			
Rebuilding species (as of 2004)															
Lingcod mortality	148.0	161.9		233.4	1.4	25.0	64.2	107.2	130.0		27.1	735.0	1,385		
Canary	6.0	8.5	4.5	18.0	5.2	3.0	1.7	3.9	9.0		7.3	47.3	256		
Widow	16.0	4.8	0.1	20.9	21.1	21.0	0.0	0.7	15.0		40.6	284.0	3,460		
Yelloweye	1.7	0.4	3.7	5.7	0.0	1.0	3.7	2.4	0.6		2.3	22.0	53		
Bocaccio ⁶	11.9	8.7	0.0	20.6	0.0		0.0	0.0	71.0		13.3	250.0	400		
Cowcod ⁶	0.0	0.8	0.0	0.9	0.0		0.0	0.0	1.0		0.5	4.8	24		
POP ⁵	116.6	23.4	0.0	140.1	1.0	3.0	0.0	0.0			7.6	444.0	980		
Darkblotched	181.0	37.1	0.5	218.6	7.4		0.0	0.0			4.9	240.0	240		

¹ Non-trawl discard includes estimates for the fixed-gear nearshore and sablefish fisheries. Sablefish fishery estimates are based on observations of the primary limited-entry, fixed-gear season. Since few observations were made in this fishery south of Ft. Bragg, CA, discard estimates for southern species, such as bocaccio and cowcod should not be viewed as complete.

² The Pacific Council's Groundfish Management Team produces a Bycatch Scorecard whose purpose is to account for all sources of expected mortality for species that are managed under rebuilding plans.

³ Area north of 36° N. Lat. ⁴ Area north of 34°27' N. Lat. ⁵ Area north of 40°10' N. Lat. ⁶ Area south of 40°10' N. Lat.

Table 15.--Estimated total mortality (mt) of major west coast groundfish species during 2005, by sector.

Target species	Shoreside commercial fisheries				All at-sea hake fisheries	Shore-side WA		Total recreational fishing mortality			Remaining GMT Scorecard ³ Values	Estimated total fishing mortality
	Estimated non-hake trawl ¹	Estimated hake trawl	Estimated non-trawl ²	Total shoreside mortality		Tribal	Research	Total recreational fishing mortality		Research		
								CA	OR			
Sablefish	2,553	22	3,242	5,817	15	700	0	1	0	10	6,543	
Shortspine thornyhead	627	0	147	774	7	11	0	0	0	4	796	
Longspine thornyhead	723	0	17	740	0	0	0	0	0	10	750	
Dover sole	7,327	0	6	7,333	0	145	0	0	0	28	7,507	
Petrale sole	2,732	0	0	2,733	0	30	0	0	0	4	2,766	
English sole	1,151	0	0	1,151	0	66	0	0	0	4	1,222	
Arrowtooth flounder	3,450	1	87	3,539	4	158	0	0	0	5	3,706	
Other Flatfish	1,872	0	2	1,874	3	47	25	0	2	13	1,965	
Blackgill rockfish ⁴	53	0	36	89	0	0	0	0	0	0	90	
Spitnose rockfish ⁴	230	0	1	231	0	0	0	0	0	7	237	
Other slope rockfish	171	4	87	262	51	28	0	0	0	4	345	
Yellowtail rockfish ⁵	56	173	10	239	112	539	9	13	20	3	935	
Chilipepper rockfish ⁶	76	0	3	79	0	0	4	0	0	14	97	
Other shelf rockfish	98	27	52	176	6	10	281	6	1	19	501	
Black rockfish	1	0	174	175	0	0	180	311	271	0	937	
Other nearshore rockfish	1	0	99	100	0	0	441	41	7	0	590	
Cabezon	0	0	62	62	0	0	47	17	7	0	133	
Kelp greenling	0	0	23	23	0	0	5	4	2	0	35	
Pacific hake/whiting	826	97,574	0	98,400	151,003	11,767	0	0	0	42	261,212	
Pacific cod	726	1	5	732	0	124	0	0	8	0	864	
Spiny dogfish	1,194	96	383	1,672	355	6	3	0	0	9	2,044	
Longnose+big+Unsp. skate	1,745	1	141	1,887	1	23	0	0	0	8	1,920	
Other groundfish	1,633	188	160	1,981	417	20	0	0	0	8	2,425	
Dungeness crab	254	0	1	255	0	0	0	0	0	0	255	
Tanner crab	252	0	9	261	0	0	0	0	0	0	261	
Rebuilding species (as of 2005)												
Lingcod	266.3	5.9	91.2	363.4	3.4	29.9	299.3	131.7	58.6	4.0	890.4	
Canary rockfish	26.0	2.2	1.9	30.1	1.4	4.3	2.0	4.9	1.9	2.3	48.7	
Widow rockfish	6.3	76.8	2.1	85.2	80.0	28.6	1.6	1.6	0.4	1.6	198.9	
Yelloweye rockfish	0.8	0.0	2.9	3.8	0.0	0.8	0.9	4.1	5.2	0.6	15.7	
Bocaccio ⁶	29.3	0.0	4.5	33.8	0.0	0.0	38.1	0.0	0.1	1.7	75.1	
Cowcod ⁶	1.4	0.0	0.0	1.5	0.0	0.0	0.4	0.0	0.0	0.1	2.0	
Pacific ocean perch ⁷	67.7	0.5	1.0	69.2	1.7	3.5	0.0	0.0	0.0	1.8	76.2	
Darkblotched rockfish	100.4	5.5	4.8	110.6	11.1	0.1	0.0	0.0	0.0	2.1	123.9	

¹ Includes minor landings by trawlers not targeting groundfish

² Includes minor landings made with troll gear

³ The Pacific Fishery Management Council's Groundfish Management Team Bycatch Scorecard (Table 17) contains estimates of mortality for species that are managed under rebuilding plans.

⁴ Amounts in this row are for the area south of 40°10' N. Lat. Northern catch is included in the Other Slope Rockfish category.

⁵ Amounts in this row are for the area north of 40°10' N. Lat. Southern catch is included in the Other Shelf Rockfish category.

⁶ Amounts in this row are for the area south of 40°10' N. Lat. Northern catch is included in the Other Shelf Rockfish category.

⁷ Amounts in this row are for the area north of 40°10' N. Lat.

2007 Projected mortality impacts (mt) of overfished groundfish species under current regulations. Updated with March 2007 inseason adjustments. a/

3/12/07

Fishery	Bocaccio b/	Canary	Cowcod	Dkbl	POP	Widow	Yelloweye
Limited Entry Trawl- Non-whiting	26.1	8.1	1.5	247.4	89.8	1.6	0.4
Limited Entry Trawl- Whiting							
At-sea whiting motherships		4.7		25.0	1.0	220.0	0.0
At-sea whiting cat-proc					2.9		0.0
Shoreside whiting					1.8		0.0
Tribal whiting		0.7		0.0	0.6	6.1	0.0
Tribal							
Midwater Trawl		1.8		0.0	0.0	40.0	0.0
Bottom Trawl		0.8		0.0	3.7	0.0	0.0
Troll		0.5		0.0	0.0		0.0
Fixed gear		0.3		0.0	0.0	0.0	2.3
Limited Entry Fixed Gear		1.1		1.3	0.4		2.9
Sablefish	13.4		0.0			0.0	
Non-Sablefish			0.1			0.5	
Open Access: Directed Groundfish		1.0					
Sablefish DTL	0.0		0.1	0.2	0.1	0.0	0.5
Nearshore (North of 40°10' N. lat.)	0.0	1.7		0.0	0.0	0.1	2.0
Nearshore (South of 40°10' N. lat.)	0.0			0.0	0.0		
Other	10.6			0.0	0.0	0.0	0.1
Open Access: Incidental Groundfish							
CA Halibut	0.1	0.0		0.0	0.0		
CA Gillnet c/	0.5			0.0	0.0	0.0	
CA Sheephead c/				0.0	0.0	0.0	0.0
CPS- wetfish c/	0.3						
CPS- squid d/							
Dungeness crab c/	0.0		0.0	0.0	0.0		
HMS b/		0.0	0.0	0.0			
Pacific Halibut c/	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pink shrimp	0.1	0.1	0.0	0.0	0.0	0.1	0.1
Ridgeback prawn	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Salmon troll	0.2	0.8	0.0	0.0	0.0	0.3	0.2
Sea Cucumber	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spot Prawn (trap)							
Recreational Groundfish e/							
WA		5.7					6.2
OR						1.4	
CA	98.0	8.3	0.4			8.0	1.7
Research: Includes NMFS trawl shelf-slope surveys, the IPHC halibut survey, and expected impacts from SRPs and LOAs. f/							
	2.0	7.5	0.1	3.8	3.6	0.9	2.0
TOTAL	151.4	43.1	2.2	277.8	103.9	279.0	18.5
2007 OY	218	44.0	4.0	290	150	368	23
Difference	66.6	0.9	1.8	12.3	46.1	89.1	4.5
Percent of OY	69.4%	98.0%	55.0%	95.8%	69.3%	75.8%	80.3%
Key	= either not applicable; trace amount (<0.01 mt); or not reported in available						

a/ All numbers reflect projected annual total catches except that the non-tribal "Limited Entry Trawl- Whiting" numbers are the total bycatch caps for canary, darkblotched, and widow rockfish.

b/ South of 40°10' N. lat.

c/ Mortality estimates are not hard numbers; based on the GMT's best professional judgment.

d/ Bycatch amounts by species unavailable, but bocaccio occurred in 0.1% of all port samples and other rockfish in another 0.1% of all port samples (and squid fisheries usually land their whole catch).

e/ Values in scorecard represent projected impacts. However, harvest guidelines for 2007 are as follows: canary in WA and OR combined = 8.2 mt and in CA = 9.0 mt; yelloweye in WA and OR combined = 6.8 mt and in CA = 2.1 mt.

f/ Research projections only updated for canary rockfish in November 2006. The other species' updates will be updated in April 2007.