

Tables and Other Information Relevant to Deciding 2011-2012 Groundfish Overfishing Limits and Acceptable Biological Catches

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Proposed Definitions of Species Categories

Category 3: Data poor. OFL derived from historical catch.

Category 3a. No reliable catch history. No basis for establishing OFL.

Category 3b. Reliable catches estimates only for recent years. OFL is average catch during a period when stock is considered to be stable and close to B_{MSY} equilibrium on the basis of expert judgment.

Category 3c. Reliable aggregate catches during period of fishery development and approximate values for natural mortality. Default analytical approach DCAC.

Category 3d. Reliable annual historical catches and approximate values for natural mortality and age at 50% maturity. Default analytical approach DB-SRA.

Category 2: Data moderate. OFL derived from model output (or natural mortality).

Category 2a. M^* survey biomass assessment (as in Rogers 1996).

Category 2b. Historical catches, fishery-dependent trend information only. An aggregate population model is fit to the available information.

Category 2c. Historical catches, survey trend information, or at least one absolute abundance estimate. An aggregate population model is fit to the available information.

Category 2d. Full age-structured assessment, but results are substantially more uncertain than assessments used in the calculation of the P^* buffer. The SSC will provide a rationale for each stock placed in this category. Reasons could include that assessment results are very sensitive to model and data assumptions, or that the assessment has not been updated for many years.

Category 1: Data rich. OFL based on F_{MSY} or F_{MSY} proxy from model output. ABC based on P^* buffer.

Category 1a. Reliable compositional (age and/or size) data sufficient to resolve year-class strength and growth characteristics. Only fishery-dependent trend information available. Age/size structured assessment model.

Category 1b. As in 3a, but trend information also available from surveys. Age/size structured assessment model.

Category 1c. Age/size structured assessment model with reliable estimation of the stock-recruit relationship.

Table 2-1a. Specified 2010 ABCs (mt), projected 2011 and 2012 OFLs (mt) for assessed stocks, proposed OFLs for unassessed stocks, proposed FMP species categorizations, and preliminary 2011 and 2012 ABCs. (Overfished stocks in CAPS; Stocks with new assessments in bold; Species contributions to a stock complex specification in *italics*).

Stock	No Action Alternative	Action Alternatives		Proposed Species Category a/		Preliminary Action Alternatives b/		Comments	
		2010 ABC	2011 OFL	2012 OFL	Category	Sub-category	2011 ABC		2012 ABC
Lingcod - coastwide	4,829	4,961	4,848						
Lingcod N. of 42° N latitude (OR & WA)		2,438	2,251	1		TBD c/	TBD c/	Council may choose coastwide specifications or area-specific specifications (e.g., OR-WA and CA) for 2011-12.	
Lingcod S. of 42° N latitude (CA)		2,523	2,597						
Pacific Cod	3,200	3,200	3,200	3	b	1,600	1,600	Max historical catch- new cat. 3 category?	
Pacific Whiting (U.S. + Canada)	455,550	TBD in 2011	TBD in 2012	1		NA	NA	Not to be managed under Am. 23 framework under the Council's preliminary preferred alt. No P* or scientific uncertainty buffer decision required.	
Sablefish - coastwide	9,217	8,808	8,623	1		TBD c/	TBD c/		
PACIFIC OCEAN PERCH	1,173	1,026	1,007	1		TBD c/	TBD c/		
Shorthelly	6,950			2	d	0	0	Determine OFL from assessment (use F50%)	
WIDOW	6,937	5,097	4,923	1		TBD c/	TBD c/		
CANARY	940	614	622	1		TBD c/	TBD c/		
Chilipepper d/	2,576	2,229	2,013	1		TBD c/	TBD c/		
BOCACCIO S. of 40°10' N latitude	793	737	732	1		TBD c/	TBD c/		
Splitnose e/	615	2,381	2,507	1		TBD c/	TBD c/	Need to decide whether this stock will be managed with stock-specific specifications or under the minor slope rockfish complexes	
Yellowtail N. of 40°10' N latitude	4,562	4,566	4,573	1		TBD c/	TBD c/	Need to address for long term as assessment becomes obsolete	
Shortspine Thornyhead - coastwide	2,411	2,384	2,358	1		TBD c/	TBD c/		
Longspine Thornyhead - coastwide	3,671	3,577	3,483	1		TBD c/	TBD c/		
COWCOD (Con + Mon)	14	13	13	2	d	10	10		
DARKBLOTTED	440	508	497	1		TBD c/	TBD c/		
YELLOWEYE	32	48	48	1		TBD c/	TBD c/		
Black Rockfish (WA)	464	445	435	1		TBD c/	TBD c/		
Black Rockfish (OR-CA)	1,317	1,217	1,169	1		TBD c/	TBD c/		
Greenstriped f/	NA - Managed in complexes	1,429	1,458	1		TBD c/	TBD c/	Need to decide whether this stock will be managed with stock-specific specifications or under the minor shelf rockfish complexes	
Minor Rockfish North	3,678	3,556	3,625			755	755		
Minor Nearshore Rockfish North	NA					NA	NA		
<i>Black and yellow</i>		0.0	0.0	3	d	0.0	0.0		
<i>Blue</i>	28.0	27.7	27.5	2	d	20.8	20.6		
<i>Brown</i>		2.2	2.2	3	d	1.1	1.1		
<i>Calico</i>		0.0	0.0	3	a	0.0	0.0		
<i>China</i>		11.4	11.4	3	d	5.7	5.7		
<i>Copper</i>		22.3	22.3	3	d	11.2	11.2		
<i>Gopher</i>	0.0	0.0	0.0	3	a	0.0	0.0		

Table 2-1a (continued). Specified 2010 ABCs (mt), projected 2011 and 2012 OFLs (mt) for assessed stocks, proposed OFLs for unassessed stocks, proposed FMP species categorizations, and preliminary 2011 and 2012 ABCs. (Overfished stocks in CAPS; Stocks with new assessments in bold; Species contributions to a stock complex specification in *italics*).

Stock	No Action Alternative	Action Alternatives		Proposed Species Category a/	Preliminary Action Alternatives b/		Comments	
		2011 OFL	2012 OFL		2011 ABC	2012 ABC		
		Category	Sub-category		Category	Sub-category		
Grass		1.2	1.2	3	d	0.6	0.6	
Kelp		0.0	0.0	3	d	0.0	0.0	
Olive		0.6	0.6	3	d	0.3	0.3	
Onitlback		7.2	7.2	3	d	3.6	3.6	
Treesfish		0.0	0.0	3	d	0.0	0.0	
Minor Shelf Rockfish North	NA					NA	NA	
Bronzespotted		0.0	0.0	3	d	0.0	0.0	
Bocaccio	318.0	268.2	268.2	3	d	134.1	134.1	
Chameleon		0.0	0.0	3	a	0.0	0.0	
Chilipepper		TBD	TBD	1		TBD c/	TBD c/	
Cowcod		0.0	0.0	3	a	0.0	0.0	
Dusky		NA	NA	Not in Fishery		NA	NA	Remove from FMP
Dwarf-red		NA	NA	Not in Fishery		NA	NA	Remove from FMP
Flag		0.0	0.0	3	d	0.0	0.0	
Freckled		0.0	0.0	3	a	0.0	0.0	
Greenblotched		1.3	1.3	3	c	0.7	0.7	
Greenspotted		12.9	12.9	3	d	6.4	6.4	
Greenstriped f/		1,208.0	1,232.0	1		TBD c/	TBD c/	
Halfbanded		0.0	0.0	3	b	0.0	0.0	
Harlequin		0.0	0.0	3	a	0.0	0.0	
Honeycomb		0.0	0.0	3	c	0.0	0.0	Remove from complex?
Mexican		0.0	0.0	3	c	0.0	0.0	Remove from complex?
Pink		0.0	0.0	3	d	0.0	0.0	Remove from complex?
Pinkrose		0.1	0.1	3	b	0.1	0.1	
Puget Sound		0.0	0.0	3	a	0.0	0.0	
Pygmy		0.0	0.0	3	a	0.0	0.0	
Redstripe	576.0	287.6	287.6	3	d	143.8	143.8	
Rosethorn		14.6	14.6	3	d	7.3	7.3	
Rosy		1.5	1.5	3	d	0.8	0.8	
Silvergray	38.0	179.8	179.8	3	d	89.9	89.9	
Speckled		0.1	0.1	3	d	0.0	0.0	
Squarespot		0.1	0.1	3	c	0.0	0.0	
Starry		0.0	0.0	3	d	0.0	0.0	Remove from complex?
Stripetail		32.5	32.5	3	d	16.3	16.3	
Swordspine		0.0	0.0	3	d	0.0	0.0	Remove from complex?
Tiger		1.1	1.1	3	d	0.5	0.5	
Vermilion		15.0	15.0	3	c	7.5	7.5	

Table 2-1a (continued). Specified 2010 ABCs (mt), projected 2011 and 2012 OFLs (mt) for assessed stocks, proposed OFLs for unassessed stocks, proposed FMP species categorizations, and preliminary 2011 and 2012 ABCs. (Overfished stocks in CAPS; Stocks with new assessments in bold; Species contributions to a stock complex specification in *italics*).

Stock	No Action Alternative	Action Alternatives		Proposed Species Category a/		Preliminary Action Alternatives b/		Comments	
		2010 ABC	2011 OFL	2012 OFL	Category	Sub-category	2011 ABC		2012 ABC
Minor Slope Rockfish North	NA						NA	NA	
<i>Aurora</i>		13.4	13.4		3	d	6.7	6.7	
<i>Bank</i>		34.4	34.4		3	d	17.2	17.2	
<i>Blackgill</i>	0.0	0.0	0.0		3	a	0.0	0.0	
<i>Redbanded</i>		54.6	54.6		3	d	27.3	27.3	Remove from complex?
<i>Rougheye</i>		78.3	78.3		3	d	39.2	39.2	
<i>Sharpchin</i>	307.0	221.0	221.0		3	d	110.5	110.5	
<i>Shortraker</i>		21.8	21.8		3	d	10.9	10.9	
<i>Spitnose e/</i>	242.0	852.2	897.3		1		TBD c/	TBD c/	
<i>Yellowmouth</i>	99.0	184.5	184.5		3	d	92.3	92.3	
Minor Rockfish South	3,382	4,241	4,230				2,107	2,098	
Minor Nearshore Rockfish South	NA						NA	NA	
<i>Shallow Nearshore Species</i>	NA						NA	NA	
<i>Black and yellow</i>		26.7	26.7		3	c	13.4	13.4	
<i>China</i>		20.1	20.1		3	c	10.1	10.1	
<i>Gopher</i>	193.0	175.0	165.0		2	d	131.3	123.8	
<i>Grass</i>		55.0	55.0		3	d	27.5	27.5	
<i>Kelp</i>		25.9	25.9		3	d	12.9	12.9	
Deeper Nearshore Species	NA						NA	NA	
<i>Blue</i>	211.0	209.3	207.5		2	d	156.9	155.6	
<i>Brown</i>		200.5	200.5		3	d	100.2	100.2	
<i>Calico</i>		2.0	2.0		3	b	1.0	1.0	
<i>Copper</i>		162.2	162.2		3	d	81.1	81.1	
<i>Olive</i>		189.2	189.2		3	d	94.6	94.6	
<i>Quillback</i>		7.8	7.8		3	d	3.9	3.9	
<i>Treefish</i>		13.2	13.2		3	d	6.6	6.6	
Minor Shelf Rockfish South	NA						NA	NA	
<i>Bronzespotted</i>		6.7	6.7		3	c	3.3	3.3	
<i>Chameleon</i>		0.0	0.0		3	a	0.0	0.0	
<i>Dusky</i>	0.0	NA	NA		3	Not in Fisherv	NA	NA	Remove from FMP
<i>Dwarf-red</i>	0.0	NA	NA		3	Not in Fisherv	NA	NA	Remove from FMP
<i>Flag</i>		26.7	26.7		3	c	13.4	13.4	
<i>Freckled</i>		0.0	0.0		3	a	0.0	0.0	
<i>Greenblotched</i>		24.6	24.6		3	d	12.3	12.3	
<i>Bronzespotted</i>		203.2	203.2		3	d	101.6	101.6	
<i>Greenshaded f/</i>		221.0	226.0		1		TBD c/	TBD c/	
<i>Halfbanded</i>		0.0	0.0		3	b	0.0	0.0	
<i>Harlequin</i>		0.0	0.0		3	a	0.0	0.0	
<i>Honeycomb</i>		7.8	7.8		3	c	3.9	3.9	
<i>Mexican</i>		2.8	2.8		3	c	1.4	1.4	

Table 2-1a (continued). Specified 2010 ABCs (mt), projected 2011 and 2012 OFLs (mt) for assessed stocks, proposed OFLs for unassessed stocks, proposed FMP species categorizations, and preliminary 2011 and 2012 ABCs. (Overfished stocks in CAPS; Stocks with new assessments in bold; Species contributions to a stock complex specification in *italics*).

Stock	No Action Alternative	Action Alternatives		Proposed Species Category a/		Preliminary Action Alternatives b/		Comments
		2011 OFL	2012 OFL	Category	Sub-category	2011 ABC	2012 ABC	
		2010 ABC	2011 OFL	2012 OFL	Category	Sub-category	2011 ABC	
<i>Pink</i>		2.8	2.8	3	d	1.4	1.4	
<i>Pinkrose</i>		1.9	1.9	3	b	0.9	0.9	
<i>Pygmy</i>		0.0	0.0	3	a	0.0	0.0	
<i>Redstripe</i>		1.2	1.2	3	d	0.6	0.6	
<i>Rosethorn</i>		3.1	3.1	3	d	1.5	1.5	
<i>Rosy</i>		37.9	37.9	3	d	19.0	19.0	
<i>Silvergray</i>		0.7	0.7	3	d	0.4	0.4	
<i>Speckled</i>		43.0	43.0	3	d	21.5	21.5	
<i>Squarespot</i>		5.8	5.8	3	c	2.9	2.9	
<i>Starry</i>		70.5	70.5	3	d	35.3	35.3	
<i>Stripetail</i>		23.3	23.3	3	d	11.7	11.7	
<i>Swordspine</i>		12.9	12.9	3	d	6.5	6.5	
<i>Tiger</i>		0.1	0.1	3	d	0.0	0.0	
<i>Vermilion</i>		304.5	304.5	3	d	152.2	152.2	
<i>Yellowtail</i>	116.0	1,248.9	1,248.9	3	d	624.5	624.5	
Minor Slope Rockfish South	NA					NA	NA	
<i>Aurora</i>		33.4	33.4	3	c	16.7	16.7	
<i>Bank</i>	350.0	560.1	560.1	2	a	420.1	420.1	Anomalous cat.?
<i>Blackgill</i>	282.0	279.0	275.0	1		TBD c/	TBD c/	Not clear why this stock is managed within the complex
<i>Pacific ocean perch</i>		0.0	0.0	3	a	0.0	0.0	
<i>Redbanded</i>		9.0	9.0	3	d	4.5	4.5	
<i>Rougheye</i>		0.4	0.4	3	d	0.2	0.2	
<i>Sharpchin</i>	45.0	21.5	21.5	3	d	10.7	10.7	
<i>Shortraker</i>		0.2	0.2	3	d	0.1	0.1	
<i>Yellowmouth</i>		0.9	0.9	3	d	0.5	0.5	
California scorpionfish	155	141	132	1		TBD c/	TBD c/	
Cabezon (CA)	111	187	176	1		TBD c/	TBD c/	
Cabezon (OR)		52	50	1		TBD c/	TBD c/	
Dover Sole	28,582	44,400	44,826	1		TBD c/	TBD c/	
English Sole	9,745	20,675	10,620	1		TBD c/	TBD c/	
PETRALE SOLE (1,200 mt 2010 OY)	2,751	1,021	1,279	1		TBD c/	TBD c/	
PETRALE SOLE (1,200 mt 2010 OY; no winter fishery)	2,751	1,170	1,369	1		TBD c/	TBD c/	
Arrowtooth Flounder	10,112	18,211	14,460	1		TBD c/	TBD c/	
Starry Flounder	1,578	1,802	1,813	2	d	1,352	1,360	
Longnose skate	3,269	3,128	3,006	1		TBD c/	TBD c/	

Table 2-1a (continued). Specified 2010 ABCs (mt), projected 2011 and 2012 OFLs (mt) for assessed stocks, proposed OFLs for unassessed stocks, proposed FMP species categorizations, and preliminary 2011 and 2012 ABCs. (Overfished stocks in CAPS; Stocks with new assessments in bold; Species contributions to a stock complex specification in *italics*).

Stock	No Action Alternative	Action Alternatives		Proposed Species Category a/	Preliminary Action Alternatives b/		Comments	
		2010 ABC	2011 OFL		2012 OFL	2011 ABC		2012 ABC
			Category		Sub-category			
Other Flatfish	6,731	10,146	10,146		5,073	5,073		
Butter sole	5	5	5	b	2	2		
Curlfin sole	8	8	8	b	4	4		
Flathead sole	123	35	35	b	18	18		
Pacific sanddab	3,172	4,943	4,943	d	2,471	2,471		
Rex sole	2,902	4,309	4,309	d	2,154	2,154		
Rock sole	46	66	66	c	33	33		
Sand sole	376	781	781	c	390	390		
Other Fish	11,200				NA	NA	Consider analysis of skates as a complex?	
Big skate					0	0	Use longnose as an indicator species?	
California skate					0	0	Use longnose as an indicator species?	
Leopard shark		164	164	d	82	82		
Southern shark		62	62	c	31	31		
Spiny dogfish		2,200	2,200	d	1,100	1,100		
Finescale codling					0	0		
Pacific rattail		4,178	1,178	c	589	589	OFL point estimate is for all grenadiers using a DCAC approach.	
Raffish					0	0		
Cabezon (OR in 2009-10)				1	TBD c/	TBD c/	Presumably will be removed from complex in 2011-12	
Cabezon (WA)				3	0	0		
Kelp greenling (CA)		111	111	d	55	55		
Kelp greenling (OR & WA)				3	0	0		

a/ Proposed Species Category is the initial categorization made by the SSC Groundfish Subcommittee for consideration by the SSC.

b/ Preliminary action alternatives for 2011 and 2012 ABCs assume a decision on an overfishing probability (P*) for category 1 stocks, a 2.5% reduction from the OFL for category 2 stocks, and a 50% reduction from the OFL for category 3 stocks.

c/ The ABCs for category 1 stocks are a reduction from the OFL using an assessment coefficient of variation coupled with an overfishing probability (P*). See Tables 2-1 c and d for the ABCs under a range of P* values using the assessment CV of $\sigma = 0.36$.

d/ Chilipepper rockfish are projected from the 2007 assessment based on the population occurring in waters off CA and OR. They were specified for south of 40°10' N latitude in 2009-10, but should have been applied for the waters off CA and OR.

e/ Splitnose rockfish specifications in 2009-10 were for south of 40°10' N latitude. The 2011-12 specifications are projected from the 2009 assessment and apply coastwide. The Council needs to decide whether to manage this stock with stock-specific specifications or to manage this stock within the minor slope rockfish complexes.

f/ The Council needs to decide whether the greenstriped stock will be managed under stock-specific specifications or whether to continue managing the stock within the minor shelf rockfish complexes.

Table 2-1b. Specified 2010 acceptable biological catches (ABCs in mt) and presumed ABC values if Amendment 23 were in place for deciding scientific uncertainty buffers in 2010 (ABC*) of assessed category 1 FMP species under a range of overfishing probability (P*) values (assuming an assessment CV of $\sigma = 0.36$).

Stock	No Action Alternative									
	2010 ABC	2010 ABC*								
		Overfishing Probability (P*)								
	0.45	0.40	0.35	0.30	0.25	0.20	0.15			
Lingcod - coastwide	4,829	4,408	4,204	3,998	3,788	3,567	3,325			
Pacific Whiting (U.S. + Canada)	455,550	415,840	396,545	377,180	357,341	336,474	313,685			
Sablefish - coastwide	9,217	8,414	8,023	7,631	7,230	6,808	6,347			
PACIFIC OCEAN PERCH										
WIDOW	1,173	1,071	1,021	971	920	866	808			
CANARY	6,937	6,332	6,038	5,744	5,441	5,124	4,777			
Chilipepper	940	858	818	778	737	694	647			
BOCACCIO S. of 40°10' N latitude	2,576	2,351	2,242	2,133	2,021	1,903	1,774			
Spitnose	793	724	690	657	622	586	546			
Yellowtail N. of 40°10' N latitude	615	561	535	509	482	454	423			
Shortspine Thornyhead - coastwide	4,562	4,164	3,971	3,777	3,579	3,370	3,141			
Longspine Thornyhead - coastwide	2,411	2,201	2,099	1,996	1,891	1,781	1,660			
DARKBLOTTCHED	3,671	3,351	3,196	3,039	2,880	2,711	2,528			
YELLOWEYE	440	402	383	364	345	325	303			
Black Rockfish (WA)	32	29	28	26	25	24	22			
Black Rockfish (OR-CA)	464	423	404	384	364	342	319			
California scorpionfish	1,317	1,202	1,146	1,090	1,033	973	907			
Cabezon (CA)	155	141	135	128	122	114	107			
Cabezon (OR)	111	106	97	92	87	82	76			
Dover Sole	NA	NA	NA	NA	NA	NA	NA			
English Sole	28,582	26,091	24,880	23,665	22,420	21,111	19,681			
PETRALE SOLE (1,200 mt 2010 OY)	9,745	8,896	8,483	8,069	7,644	7,198	6,710			
PETRALE SOLE (1,200 mt 2010 OY; no winter fishery)	2,751	2,511	2,395	2,278	2,158	2,032	1,894			
Arrowtooth Flounder	2,751	2,511	2,395	2,278	2,158	2,032	1,894			
Longnose skate	10,112	9,665	9,231	8,802	8,372	7,932	7,469			
	3,269	3,124	2,984	2,846	2,707	2,564	2,415			

Table 2-1c. Projected 2011 overfishing limits (OFLs in mt) and acceptable biological catches (ABCs in mt) of assessed category 1 FMP species under a range of overfishing probability (P*) values (assuming an assessment CV of $\sigma = 0.36$).

Stock	Action Alternatives										
	2011 OFL	2011 ABC									
		0.45	0.40	0.35	0.30	0.25	0.20	0.15			
Lingcod - coastwide	4,961	4,529	4,318	4,108	3,891	3,664	3,416				
Lingcod N. of 42° N latitude (OR & WA)	2,438	2,225	2,122	2,019	1,912	1,801	1,679				
Lingcod S. of 42° N latitude (CA)	2,523	2,303	2,196	2,089	1,979	1,864	1,737				
Sablefish - coastwide	8,808	8,040	7,667	7,293	6,909	6,506	6,065				
PACIFIC OCEAN PERCH	1,026	937	893	849	805	758	706				
WIDOW	5,097	4,653	4,437	4,220	3,998	3,765	3,510				
CANARY	614	560	534	508	481	453	422				
Chilipepper c/	2,229	2,035	1,940	1,846	1,748	1,646	1,535				
BOCACCIO S. of 40°10' N latitude	737	673	642	610	578	544	507				
Spitnose d/	2,381	2,173	2,073	1,971	1,868	1,759	1,640				
Yellowtail N. of 40°10' N latitude	4,566	4,168	3,975	3,780	3,582	3,372	3,144				
Shortspine Thornyhead - coastwide	2,384	2,176	2,075	1,974	1,870	1,761	1,642				
Longspine Thornyhead - coastwide	3,577	3,419	3,114	2,962	2,806	2,642	2,463				
DARKBLOTCHED	508	464	442	420	398	375	350				
YELLOWEYE	48	44	42	40	37	35	33				
Black Rockfish (WA)	445	406	388	369	349	329	307				
Black Rockfish (OR-CA)	1,217	1,111	1,059	1,008	955	899	838				
Greenstriped	1,429										
California scorpionfish	141	129	123	117	111	104	97				
Cabazon (CA)	187	171	163	155	147	138	129				
Cabazon (OR)	52	47	45	43	41	38	36				
Dover Sole	44,400	40,530	38,649	36,762	34,828	32,794	30,573				
English Sole	20,675	18,873	17,997	17,118	16,218	15,271	14,237				
PETRALE SOLE (1,200 mt 2010 OY)	1,021	932	889	845	801	754	703				
PETRALE SOLE (1,200 mt 2010 OY; no winter fishery)	1,170	1,068	1,018	969	918	864	806				
Arrowtooth Flounder	18,211	17,406	16,624	15,852	15,078	14,285	13,451				
Longnose skate	3,128	2,990	2,855	2,723	2,590	2,454	2,310				

Table 2-1d. Projected 2012 overfishing limits (OFLs in mt) and acceptable biological catches (ABCs in mt) of assessed category 1 FMP species under a range of overfishing probability (P*) values (assuming an assessment CV of $\sigma = 0.36$).

Stock	Action Alternatives										
	2012 OFL	2012 ABC									
		0.45	0.40	0.35	0.30	0.25	0.20	0.15			
Lingcod - coastwide	4,848	4,425	4,220	4,014	3,803	3,581	3,338				
Lingcod N. of 42° N latitude (OR & WA)	2,251	2,055	1,959	1,864	1,766	1,663	1,550				
Lingcod S. of 42° N latitude (CA)	2,597	2,371	2,261	2,150	2,037	1,918	1,788				
Sablefish - coastwide	8,623	7,871	7,506	7,140	6,764	6,369	5,938				
PACIFIC OCEAN PERCH	1,007	919	877	834	790	744	693				
WIDOW	4,923	4,494	4,285	4,076	3,862	3,636	3,390				
CANARY	622	567	541	515	488	459	428				
Chilipepper c/	2,013	1,838	1,752	1,667	1,579	1,487	1,386				
BOCACCIO S. of 40°10' N latitude	732	668	637	606	574	541	504				
Splitnose d/	2,507	2,288	2,182	2,076	1,967	1,852	1,726				
Yellowtail N. of 40°10' N latitude	4,573	4,174	3,981	3,786	3,587	3,378	3,149				
Shortspine Thornyhead - coastwide	2,358	2,152	2,053	1,952	1,850	1,742	1,624				
Longspine Thornyhead - coastwide	3,483	3,179	3,032	2,884	2,732	2,573	2,398				
DARKBLOTCHED	497	454	433	411	390	367	342				
YELLOWWEYE	48	44	42	40	38	35	33				
Black Rockfish (WA)	435	397	378	360	341	321	299				
Black Rockfish (OR-CA)	1,169	1,067	1,018	968	917	863	805				
Greenstriped	1,458	1,331	1,269	1,207	1,144	1,077	1,004				
California scorpionfish	132	120	115	109	103	97	91				
Cabezon (CA)	176	168	153	146	138	130	121				
Cabezon (OR)	50	46	44	41	39	37	34				
Dover Sole	44,826	40,919	39,020	37,114	35,162	33,109	30,867				
English Sole	10,620	9,694	9,244	8,793	8,330	7,844	7,313				
PETRALE SOLE (1,200 mt 2010 OY)	1,279	1,168	1,113	1,059	1,003	945	881				
PETRALE SOLE (1,200 mt 2010 OY; no winter fishery)	1,369	1,250	1,192	1,133	1,074	1,011	943				
Arrowtooth Flounder	14,460	13,200	12,587	11,972	11,343	10,680	9,957				
Longnose skate	3,006	2,873	2,617	2,489	2,358	2,220	2,070				