

Table 1. Preferred 2013 and 2014 overfishing limits (OFLs in mt), acceptable biological catches (ABCs in mt), and annual catch limits (ACLs in mt) for west coast groundfish stocks and stock complexes (stocks with new assessments in bold).

Stock	2013 OFL	2014 OFL	2013 ABC	2014 ABC	2012 ACL	Preferred ACLs	
						2013	2014
<b>OVERFISHED STOCKS</b>							
<b>BOCACCIO S. of 40°10'</b>	<b>884</b>	<b>881</b>	<b>845</b>	<b>842</b>	274	<b>320</b>	<b>337</b>
<b>CANARY</b>	<b>752</b>	<b>741</b>	<b>719</b>	<b>709</b>	107	<b>116</b>	<b>119</b>
COWCOD S. of 40°10'	11	12	9	9	3	3	3
<b>DARKBLOTCHED</b>	<b>541</b>	<b>553</b>	<b>517</b>	<b>529</b>	296	<b>317</b>	<b>330</b>
<b>PACIFIC OCEAN PERCH</b>	<b>844</b>	<b>838</b>	<b>807</b>	<b>801</b>	183	<b>150</b>	<b>153</b>
<b>PETRALE SOLE</b>	<b>2,711</b>	<b>2,774</b>	<b>2,592</b>	<b>2,652</b>	1,160	<b>2,592</b>	<b>2,652</b>
<b>YELLOWEYE</b>	<b>51</b>	<b>51</b>	<b>43</b>	<b>43</b>	17	<b>18</b>	<b>18</b>
<b>NON-OVERFISHED STOCKS</b>							
Arrowtooth Flounder	7,391	6,912	6,157	5,758	12,049	6,157	5,758
Black Rockfish (OR-CA)	1,159	1,166	1,108	1,115	1,000	1,000	1,000
Black Rockfish (WA)	430	428	411	409	415	411	409
Cabazon (CA)	170	165	163	158	168	163	158
Cabazon (OR)	49	49	47	47	48	47	47
California scorpionfish	126	122	120	117	126	120	117
Chilipepper S. of 40°10'	1,768	1,722	1,690	1,647	1,789	1,690	1,647
<b>Dover Sole</b>	<b>92,955</b>	<b>77,774</b>	<b>88,865</b>	<b>74,352</b>	25,000	<b>25,000</b>	<b>25,000</b>
English Sole	7,129	5,906	6,815	5,646	10,151	6,815	5,646
Lingcod N. of 40°10' a/	3,334	3,162	3,036	2,878	NA	3,036	2,878
Lingcod S. of 40°10' a/	1,334	1,276	1,111	1,063	NA	1,111	1,063
Longnose skate	2,902	2,816	2,774	2,692	1,349	2,000	2,000
Longspine Thornyhead (coastwide)	3,391	3,304	2,825	2,752	NA	NA	NA
Longspine Thornyhead N. of 34°27'	NA	NA	NA	NA	2,064	2,009	1,958
Longspine Thornyhead S. of 34°27'	NA	NA	NA	NA	366	356	347
Pacific Cod	3,200	3,200	2,221	2,221	1,600	1,600	1,600
<b>Sablefish (coastwide)</b>	<b>6,621</b>	<b>7,158</b>	<b>6,045</b>	<b>6,535</b>	NA	<b>NA</b>	<b>NA</b>
Sablefish N. of 36°	NA	NA	NA	NA	5,347	<b>4,012</b>	<b>4,349</b>
Sablefish S. of 36°	NA	NA	NA	NA	1,298	<b>1,439</b>	<b>1,560</b>
Shortbelly	6,950	6,950	5,789	5,789	50	50	50
Shortspine Thornyhead (coastwide)	2,333	2,310	2,230	2,208	NA	NA	NA
Shortspine Thornyhead N. of 34°27'	NA	NA	NA	NA	1,556	1,540	1,525
Shortspine Thornyhead S. of 34°27'	NA	NA	NA	NA	401	397	393
Splitnose S. of 40°10'	1,684	1,747	1,610	1,670	1,538	1,610	1,670
Starry Flounder	1,825	1,834	1,520	1,528	1,360	1,520	1,528

<b>Widow</b>	<b>4,841</b>	<b>4,435</b>	<b>4,598</b>	<b>4,212</b>	600	<b>1,500</b>	<b>1,500</b>
Yellowtail N. of 40°10'	4,579	4,584	4,378	4,382	4,371	4,378	4,382
<b>STOCK COMPLEXES</b>							
Minor Nearshore Rockfish North	110	110	94	94	99	94	94
Minor Shelf Rockfish North	2,183	2,195	1,920	1,932	968	968	968
Minor Slope Rockfish North	1,518	1,553	1,381	1,414	1,160	1,160	1,160
Minor Nearshore Rockfish South	1,164	1,160	1,005	1,001	990	990	990
Minor Shelf Rockfish South	1,910	1,913	1,617	1,620	714	714	714
Minor Slope Rockfish South	681	685	618	622	626	618	622
Other Flatfish	10,060	10,060	6,982	6,982	4,884	4,884	4,884
Other Fish b/	6,832	6,802	4,717	4,697	5,575	4,717	4,697

a/ The Council requested analysis of shifting the lingcod management line from the OR-CA border at 42° N. latitude to 40°10' N. latitude. An analysis using swept area biomass estimates of lingcod derived from the NWFSC trawl survey indicates 48% of the biomass south of 42° N. latitude occurs north of 40°10' N. latitude. The 40°10' N. latitude management line for lingcod is the Council preferred alternative for lingcod specifications to be analyzed in the DEIS.

b/ Values for these specifications are the sum of known contributions of component stocks.

Table 2. Estimated time to rebuild and spawning potential ratio (SPR) harvest rate relative to alternative 2013-2014 ACLs for overfished west coast groundfish stocks (alphabetic alternatives are those that were decided for detailed analysis in the DEIS).

Stock	Current Ttarget	Current SPR or Harvest Control Rule	Pref. Ttarget	ACL Alt.	ACLs (mt)		SPR or Harvest Control Rule	Median Time to Rebuild	Rebuilding Duration Beyond T@F=0 (yrs.)	Prob. of Rebuilding by Ttarget	Prob. of Rebuilding by Tmax
					2013	2014					
Bocaccio S of 40°10' N lat. a/	2022	77.7%	2022		0	0	100%	2019	0	88.0%	99.0%
					133	143	90.0%	2019	0	77.0%	97.0%
					248	263	82.3%	2020	1	67.6%	93.0%
				a, Pref.	320	337	77.7%	2021	2	60.0%	90.0%
					453	471	70.0%	2023	4	49.0%	70.0%
					691	705	60.0%	2027	8	33.0%	63.0%
Canary	2027	88.7%	2030		837	843	53.9%	2031	12	23.0%	51.0%
				a	0	0	100%	2028	0	48.2%	75.0%
				b	48	49	95.1%	2028	0	41.2%	75.0%
				c	101	104	90.0%	2029	1	36.4%	75.0%
				d, Pref.	116	119	88.7%	2030	2	34.4%	75.0%
				e	147	151	85.9%	2030	2	31.7%	75.0%
					184	187	82.9%	2031	3	29.9%	75.0%
				f	216	220	80.3%	2032	4	27.9%	74.9%
					302	306	74.0%	2035	7	26.1%	73.6%
					394	397	67.9%	2040	12	25.1%	66.3%
Cowcod b/	2068	82.7%	2068		449	451	64.7%	2045	17	25.0%	59.4%
					752	753	62.2%	2050	22	25.0%	50.0%
					0	0	100%	2060	0	NA	78.4%
					2	2	90.0%	2064	4	NA	72.4%
				a, Pref.	3	3	82.7%	2068	8	50.0%	66.2%
					4	4	79.0%	2071	11	NA	66.2%
	5	5	74.2%	2074	14	NA	66.2%				
	9	9	59.7%	2097	37	NA	53.3%				

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					2013	2014					
Darkblotched	2025	64.9%	2025		0	0	100%	2016	0	100.0%	100.0%
				a, Pref.	317	330	64.9%	2017	1	100.0%	100.0%
					347	360	62.6%	2017	1	100.0%	100.0%
					353	366	62.1%	2018	2	100.0%	100.0%
					372	385	60.7%	2018	2	100.0%	100.0%
					423	437	57.1%	2018	2	100.0%	100.0%
					488	501	53.0%	2020	4	72.8%	91.0%
					553	565	49.0%	2025	9	50.0%	77.0%
	676	685	43.0%	2037	21	23.0%	50.0%				
POP	2020	86.4%	2051	a	0	0	100%	2043	0	25.0%	85.5%
					16	17	98.4%	2043	0	25.0%	84.0%
					35	36	96.5%	2044	1	25.0%	83.0%
					58	60	94.3%	2045	2	25.0%	81.0%
				b	74	76	92.9%	2046	3	25.0%	79.0%
					89	91	91.6%	2047	4	25.0%	78.0%
					106	108	90.1%	2048	5	25.0%	77.0%
					122	124	88.8%	2049	6	25.0%	76.0%
					131	134	88.0%	2050	7	25.0%	75.0%
					136	139	87.6%	2050	7	25.0%	75.0%
				c, Pref.	150	153	86.4%	2051	8	25.0%	73.0%
					158	161	85.8%	2052	9	25.0%	72.6%
					163	167	85.4%	2052	9	25.0%	72.0%
					175	178	84.5%	2053	10	25.0%	71.0%
					182	186	83.9%	2054	11	25.0%	70.1%
					199	203	82.6%	2055	12	25.0%	68.0%
					209	213	81.9%	2056	13	25.0%	66.2%
				d	222	226	80.9%	2057	14	25.0%	65.0%
				e	247	251	79.2%	2060	17	25.0%	62.0%
					291	295	76.2%	2065	22	25.0%	55.8%
	328	333	73.8%	2071	28	25.0%	50.0%				

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					2013	2014					
Petrale	2016	25-5 Rule	2016		0	0	100%	2013	0	100.0%	100.0%
					867	1,008	60%	2013	0	100.0%	100.0%
					1,265	1,432	50%	2013	0	100.0%	100.0%
					1,831	1,994	40%	2013	0	100.0%	100.0%
				a, Pref.	2,592	2,652	25-5 Rule (=ABC @ 28% depletion in 2013)	2013	0	100.0%	100.0%
Yelloweye	2074	76.0%	2074		0	0	100%	2045	0	99.2%	99.9%
					9	9	86.4%	2053	8	85.3%	93.7%
					14	14	80.5%	2060	15	75.1%	82.8%
					15	15	79.5%	2061	16	73.2%	81.0%
					17	18	76.5%	2066	21	64.1%	73.9%
				a, Pref.	18	18	76.0%	2067	22	62.1%	72.9%
					21	21	72.7%	2074	29	50.0%	61.3%
					24	25	69.7%	2083	38	37.2%	50.0%

a/ All bocaccio alternatives have been reduced from the rebuilding analysis results by 6% to represent the portion of the stock south of 40°10' N lat.

b/ All cowcod alternatives have been doubled from the rebuilding analysis to account for the Monterey contribution.