

Table 1. 2012 OFLs (mt) and recommended 2013 and 2014 OFLs (mt) for west coast groundfish stocks (overfished stocks in CAPS; stocks with new assessments in **bold**; component stocks in status quo stock complexes in *italics*).

Stock	2012 OFL	2013 OFL	2014 OFL	Comments
OVERFISHED STOCKS				
BOCACCIO S. of 40°10' N latitude	732	884	881	Projected using a 50% SPR from the 2011 rebuilding analysis with a 6% reduction to subtract the portion of the assessed stock north of 40°10' N. lat.
CANARY	622	752	741	Projected using a 50% SPR from the 2011 rebuilding analysis.
COWCOD S. of 40°10' N latitude	13	11	12	Sum of Conception and Monterey OFLs.
<i>COWCOD (Conception)</i>	6	7	7	Projected using a 50% SPR from the 2009 rebuilding analysis.
<i>COWCOD (Monterey)</i>	7	5	5	Revised DB-SRA estimate.
DARKBLOTCHED	497	541	553	Projected using a 50% SPR from the 2011 rebuilding analysis.
PACIFIC OCEAN PERCH	1,007	844	838	Projected using a 50% SPR from the 2011 rebuilding analysis.
PETRALE SOLE	1,279	2,711	2,774	Projected using a 30% SPR from the 2011 rebuilding analysis.
YELLOWEYE	48	51	51	Projected using a 50% SPR from the 2011 rebuilding analysis.
NON-OVERFISHED STOCKS				
Arrowtooth Flounder	14,460	7,391	6,912	Projected using a 30% SPR from the 2007 full assessment.
Black Rockfish (OR-CA)	1,169	1,159	1,166	Projected using a 50% SPR from the 2007 full assessment with the addition of the northern OFL 3% reduction to account for the portion of the stock estimated between Cape Falcon and the Columbia River.
Black Rockfish (WA)	435	430	428	Projected using a 50% SPR from the 2007 full assessment with a 3% reduction to account for the portion of the stock estimated between Cape Falcon and the Columbia River.
Pacific Whiting (U.S. + Canada)	TBD in 2012	TBD in 2013	TBD in 2014	
Cabezon (OR)	50	49	49	Projected using a 45% SPR from the 2009 full assessment.
California scorpionfish	132	126	122	Projected using a 45% SPR from the 2005 full assessment.
Chilipepper S. of 40°10' N latitude	1,872	1,768	1,722	Projected using a 50% SPR from the 2007 full assessment. The portion of the coastwide stock south of 40°10' N. lat. (93%) is based on average historical landings.
Dover Sole	44,826	92,955	77,774	Projected using a 30% SPR from the 2011 full assessment.
English Sole	10,620	7,129	5,906	Projected using a 30% SPR from the 2009 update assessment.
Lingcod N. of 42° N latitude (OR & WA)	2,251	2,102	1,984	Projected using a 45% SPR from the 2009 full assessment.
Lingcod S. of 42° N latitude (CA)	2,597	2,566	2,454	Projected using a 45% SPR from the 2009 full assessment.

Stock	2012 OFL	2013 OFL	2014 OFL	Comments
Longnose skate	3,006	2,902	2,816	Projected using a 45% SPR from the 2007 full assessment.
Longspine Thornyhead (coastwide)	3,483	3,391	3,304	Projected using a 50% SPR from the 2005 full assessment.
Pacific Cod	3,200	3,200	3,200	Status quo OFL.
Sablefish (coastwide)	8,623	6,621	7,158	Projected using a 45% SPR from the 2011 full assessment.
Shortbelly	6,950	6,950	6,950	MSY estimated from 2007 assessment.
Shortspine Thornyhead (coastwide)	2,358	2,333	2,310	Projected using a 50% SPR from the 2005 full assessment.
Splitnose S. of 40°10' N latitude	1,610	1,684	1,747	Projected using a 50% SPR from the 2009 full assessment. The portion of the coastwide stock south of 40°10' N. lat. (64.2%) is based on average historical (1916-2008) landings.
Starry Flounder	1,813	1,825	1,834	Projected using a 30% SPR from the 2005 full assessment.
WIDOW	4,923	4,841	4,435	Projected using a 50% SPR from the 2011 full assessment.
Yellowtail N. of 40°10' N latitude	4,573	4,579	4,584	Projected using a 50% SPR from the 2005 full assessment.
STOCK COMPLEXES				
Minor Nearshore Rockfish North	116	110	110	Sum of OFL contributions of component stocks in the complex.
<i>Black and yellow</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>Revised DB-SRA estimate.</i>
<i>Blue (CA)</i>	<i>27.5</i>	<i>27.4</i>	<i>27.4</i>	<i>Projected using a 50% SPR from the 2007 full assessment. The portion of the assessed stock in CA north of 40°10' N. lat. (12.7%) is based on average historical landings.</i>
<i>Blue (OR & WA)</i>	<i>33.1</i>	<i>32.3</i>	<i>32.3</i>	<i>Revised DCAC estimate.</i>
<i>Brown</i>	<i>5.3</i>	<i>5.5</i>	<i>5.5</i>	<i>Revised DB-SRA estimate.</i>
<i>Calico</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>Revised DB-SRA estimate.</i>
<i>China</i>	<i>11.7</i>	<i>9.8</i>	<i>9.8</i>	<i>Revised DB-SRA estimate.</i>
<i>Copper</i>	<i>28.6</i>	<i>26.0</i>	<i>26.0</i>	<i>Revised DB-SRA estimate.</i>
<i>Gopher</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>No harvest contribution (3a stock).</i>
<i>Grass</i>	<i>0.6</i>	<i>0.7</i>	<i>0.7</i>	<i>Revised DB-SRA estimate.</i>
<i>Kelp</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>Revised DB-SRA estimate.</i>
<i>Olive</i>	<i>0.3</i>	<i>0.3</i>	<i>0.3</i>	<i>Revised DB-SRA estimate.</i>
<i>Quillback</i>	<i>8.7</i>	<i>7.4</i>	<i>7.4</i>	<i>Revised DB-SRA estimate.</i>
<i>Treefish</i>	<i>0.2</i>	<i>0.2</i>	<i>0.2</i>	<i>Revised DB-SRA estimate.</i>
Minor Shelf Rockfish North	2,197	2,183	2,195	Sum of OFL contributions of component stocks in the complex.
<i>Bronzespotted</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>Revised DB-SRA estimate.</i>
<i>Bocaccio</i>	<i>268.2</i>	<i>284.0</i>	<i>284.0</i>	<i>Revised DB-SRA estimate.</i>
<i>Chameleon</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>No harvest contribution (3a stock).</i>
<i>Chilipepper</i>	<i>140.9</i>	<i>133.1</i>	<i>129.6</i>	<i>Projected using a 50% SPR from the 2007 full assessment. The portion of the coastwide stock north of 40°10' N. lat. (7%) is based on average historical landings.</i>
<i>Cowcod</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>No harvest contribution (3a stock).</i>
<i>Flag</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>	<i>Revised DB-SRA estimate.</i>
<i>Freckled</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>No harvest contribution (3a stock).</i>
<i>Greenblotched</i>	<i>1.4</i>	<i>1.3</i>	<i>1.3</i>	<i>Revised DB-SRA estimate.</i>

Stock	2012 OFL	2013 OFL	2014 OFL	Comments
<i>Greenspotted 40°10' to 42° N latitude</i>	20.9	9.4	9.4	<i>Catch-based allocation of 50% SPR from the full 2011 assessment (22.2% of OFL from northern California model)</i>
<i>Greenspotted N. of 42 N latitude (OR & WA)</i>		6.1	6.1	<i>DCAC estimate</i>
<i>Greenstriped</i>	1,232.0	1,252.3	1,268.3	<i>Projected using a 50% SPR from the full 2009 assessment. The portion of the coastwide stock north of 40°10' N. lat. (84.5%) is based on the mean of the 2003-2008 swept area biomass estimates from the NMFS trawl survey.</i>
<i>Halfbanded</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Harlequin</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Honeycomb</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Mexican</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Pink</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Pinkrose</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Puget Sound</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Pygmy</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Redstripe</i>	288.3	269.9	269.9	<i>Revised DB-SRA estimate.</i>
<i>Rosethorn</i>	15.2	12.9	12.9	<i>Revised DB-SRA estimate.</i>
<i>Rosy</i>	2.5	3.0	3.0	<i>Revised DB-SRA estimate.</i>
<i>Silvergray</i>	180.0	159.4	159.4	<i>Revised DB-SRA estimate.</i>
<i>Speckled</i>	0.2	0.2	0.2	<i>Revised DB-SRA estimate.</i>
<i>Squarespot</i>	0.1	0.2	0.2	<i>Revised DB-SRA estimate.</i>
<i>Starry</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Stripetail</i>	35.3	40.4	40.4	<i>Revised DB-SRA estimate.</i>
<i>Swordspine</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Tiger</i>	1.1	1.0	1.0	<i>Revised DB-SRA estimate.</i>
<i>Vermilion</i>	11.1	9.7	9.7	<i>Revised DB-SRA estimate.</i>
Minor Slope Rockfish North	1,507	1,518	1,553	Sum of OFL contributions of component stocks in the complex.
<i>Aurora</i>	17	15.4	15.4	<i>Revised DB-SRA estimate.</i>
<i>Bank</i>	20	17.2	17.2	<i>Revised DB-SRA estimate.</i>
<i>Blackgill</i>	5	4.7	4.7	<i>Revised DCAC estimate.</i>
<i>Redbanded</i>	52	45.3	45.3	<i>Revised DB-SRA estimate.</i>
<i>Rougheye</i>	78	71.1	71.1	<i>Revised DB-SRA estimate.</i>
<i>Sharpchin</i>	232	214.5	214.5	<i>Revised DB-SRA estimate.</i>
<i>Shortraker</i>	22	18.7	18.7	<i>Revised DB-SRA estimate.</i>
<i>Splitnose</i>	897	939.0	974.1	<i>Projected using a 50% SPR from the 2009 full assessment. The portion of the coastwide stock north of 40°10' N. lat. (35.8%) is based on average historical (1916-2008) landings.</i>
<i>Yellowmouth</i>	185	192.4	192.4	<i>Revised DB-SRA estimate.</i>
Minor Nearshore Rockfish South	1,145	1,164	1,160	Sum of OFL contributions of component stocks in the complex.
<i>Shallow Nearshore Species</i>	NA	NA	NA	
<i>Black and yellow</i>	26.8	27.5	27.5	<i>Revised DB-SRA estimate.</i>

Stock	2012 OFL	2013 OFL	2014 OFL	Comments
<i>China</i>	19.8	16.6	16.6	<i>Revised DB-SRA estimate.</i>
<i>Gopher (N of Pt. Conception)</i>	165.0	157.0	153.0	<i>Projected using a 50% SPR from the 2005 full assessment.</i>
<i>Gopher (S of Pt. Conception)</i>	26.0	25.6	25.6	<i>Revised DCAC estimate.</i>
<i>Grass</i>	55.6	59.6	59.6	<i>Revised DB-SRA estimate.</i>
<i>Kelp</i>	25.9	27.7	27.7	<i>Revised DB-SRA estimate.</i>
<i>Deeper Nearshore Species</i>	NA	NA	NA	
<i>Blue (assessed area)</i>	190	187.8	187.8	<i>Projected using a 50% SPR from the 2007 full assessment. The portion of the assessed stock in CA south of 40°10' N. lat. (87.3%) is based on average historical landings.</i>
<i>Blue (S of 34°27' N latitude)</i>	74.0	72.9	72.9	<i>Revised DCAC estimate.</i>
<i>Brown</i>	197.4	204.6	204.6	<i>Revised DB-SRA estimate.</i>
<i>Calico</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Copper</i>	156.0	141.5	141.5	<i>Revised DB-SRA estimate.</i>
<i>Olive</i>	189.5	224.6	224.6	<i>Revised DB-SRA estimate.</i>
<i>Quillback</i>	6.3	5.4	5.4	<i>Revised DB-SRA estimate.</i>
<i>Treefish</i>	12.9	13.2	13.2	<i>Revised DB-SRA estimate.</i>
Minor Shelf Rockfish South	2,243.3	1,910.0	1,912.9	Sum of OFL contributions of component stocks in the complex.
<i>Bronzespotted</i>	6.7	3.6	3.6	<i>Revised DB-SRA estimate.</i>
<i>Chameleon</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Flag</i>	26.6	23.4	23.4	<i>Revised DB-SRA estimate.</i>
<i>Freckled</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Greenblotched</i>	24.6	23.1	23.1	<i>Revised DB-SRA estimate.</i>
<i>Greenspotted</i>	195.3	80.3	80.3	<i>Catch-based allocation of 50% SPR from the full 2011 assessment (77.8% of OFL from northern California model + the OFL from the southern California model)</i>
<i>Greenstriped</i>	226.0	229.7	232.7	<i>Projected using a 50% SPR from the full 2009 assessment. The portion of the coastwide stock south of 40°10' N. lat. (15.5%) is based on the mean of the 2003-2008 swept area biomass estimates from the NMFS trawl survey.</i>
<i>Halfbanded</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Harlequin</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Honeycomb</i>	7.8	9.9	9.9	<i>Revised DB-SRA estimate.</i>
<i>Mexican</i>	2.8	5.1	5.1	<i>Revised DB-SRA estimate.</i>
<i>Pink</i>	2.8	2.5	2.5	<i>Revised DB-SRA estimate.</i>
<i>Pinkrose</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Pygmy</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Redstripe</i>	0.5	0.5	0.5	<i>Revised DB-SRA estimate.</i>
<i>Rosethorn</i>	2.5	2.1	2.1	<i>Revised DB-SRA estimate.</i>
<i>Rosy</i>	36.9	44.5	44.5	<i>Revised DB-SRA estimate.</i>
<i>Silvergray</i>	0.6	0.5	0.5	<i>Revised DB-SRA estimate.</i>
<i>Speckled</i>	42.9	39.4	39.4	<i>Revised DB-SRA estimate.</i>
<i>Squarespot</i>	5.8	11.1	11.1	<i>Revised DB-SRA estimate.</i>
<i>Starry</i>	70.5	62.6	62.6	<i>Revised DB-SRA estimate.</i>

Stock	2012 OFL	2013 OFL	2014 OFL	Comments
<i>Stripetail</i>	20.6	23.6	23.6	<i>Revised DB-SRA estimate.</i>
<i>Swordspine</i>	12.9	14.2	14.2	<i>Revised DB-SRA estimate.</i>
<i>Tiger</i>	0.0	0.0	0.0	<i>Revised DB-SRA estimate.</i>
<i>Vermilion</i>	308.4	269.3	269.3	<i>Revised DB-SRA estimate.</i>
<i>Yellowtail</i>	1,248.9	1,064.4	1,064.4	<i>Revised DB-SRA estimate.</i>
Minor Slope Rockfish South	903	681	685	Sum of OFL contributions of component stocks in the complex.
<i>Aurora</i>	29.4	26.1	26.1	<i>Revised DB-SRA estimate.</i>
<i>Bank</i>	574.8	503.2	503.2	<i>Revised DB-SRA estimate.</i>
<i>Blackgill</i>	275.0	130.0	134.0	<i>Projected using a 50% SPR from the 2011 full assessment.</i>
<i>Pacific ocean perch</i>	0.0	0.0	0.0	<i>No harvest contribution (3a stock).</i>
<i>Redbanded</i>	11.9	10.4	10.4	<i>Revised DB-SRA estimate.</i>
<i>Rougheye</i>	0.5	0.4	0.4	<i>Revised DB-SRA estimate.</i>
<i>Sharpchin</i>	10.6	9.8	9.8	<i>Revised DB-SRA estimate.</i>
<i>Shortraker</i>	0.1	0.1	0.1	<i>Revised DB-SRA estimate.</i>
<i>Yellowmouth</i>	0.8	0.8	0.8	<i>Revised DB-SRA estimate.</i>
Other Flatfish	10,146	10,060	10,060	Sum of OFL contributions of component stocks in the complex.
<i>Butter sole</i>	4.6	4.6	4.6	<i>Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.</i>
<i>Curlfin sole</i>	8.2	8.2	8.2	<i>Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.</i>
<i>Flathead sole</i>	35.0	35.0	35.0	<i>Max. catch = 35 mt in 2005</i>
<i>Pacific sanddab</i>	4,942.5	4,801.0	4,801.0	<i>Revised DB-SRA estimate.</i>
<i>Rex sole</i>	4,308.6	4,371.5	4,371.5	<i>Revised DB-SRA estimate.</i>
<i>Rock sole</i>	66.0	66.7	66.7	<i>Revised DB-SRA estimate.</i>
<i>Sand sole</i>	780.8	773.2	773.2	<i>Revised DB-SRA estimate.</i>
Other Fish a/	11,150	3,328	3,298	No analytical basis for the status quo OFL.
<i>Big skate</i>				
<i>Cabezon (WA)</i>				
<i>California skate</i>				
<i>Finescale codling</i>				
<i>Kelp greenling (CA)</i>	110.6	118.9	118.9	<i>Revised DB-SRA estimate.</i>
<i>Kelp greenling (OR & WA)</i>				
<i>Leopard shark</i>	164.0	167.1	167.1	<i>Revised DB-SRA estimate.</i>
<i>Pacific rattail</i>	1,178.1			
<i>Ratfish</i>				
<i>Southern shark</i>	62.4	61.6	61.6	<i>Revised DCAC estimate.</i>
<i>Spiny dogfish</i>	2,200.2	2,980.0	2,950.0	<i>Projected using a 45% SPR from the 2011 full assessment.</i>

a/ Values for these specifications are the sum of known contributions of component stocks. Fully specified OFLs and ABCs would require the addition of new species to the complex (e.g., non-FMP skates and grenadiers) since many of these species are landed in generic market categories (e.g., unspecified skates).