

Table 2-1. 2021 harvest specifications (overfishing limits (OFLs in mt), acceptable biological catches (ABCs in mt), and annual catch limits (ACLs in mt)) under preferred harvest control rules and stock complex restructuring for determining these specifications, for West Coast groundfish stocks and stock complexes (overfished/rebuilding stocks in CAPS; stocks with new assessments in bold; component stocks in stock complexes in italics).

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
YELLOWEYE ROCKFISH	CW	1 (Year Based)	0.40 (0.144)	97	83	50	The ACL is derived from the 2017 yelloweye rebuilding analysis under the 65% SPR harvest rate.
Arrowtooth Flounder	CW	2 (Year Based)	0.40 (0.267)	13551	9933	9933	
Big Skate	CW	2 (Year Based)	0.45 (0.126)	1690	1477	1477	
Black Rockfish	WA	1 (Year Based)	0.45 (0.083)	319	293	293	
Black Rockfish	CA	1 (Year Based)	0.45 (0.083)	379	348	348	
Bocaccio	S of 4010	1 (Year Based)	0.45 (0.074)	1887	1748	1748	7.4% of the assessed area (Conception area N to Cape Blanco) OFL is deducted to account for the portion of the stock north of 40°10' N lat.
Cabazon	CA			225	210	210	
Cabazon	3427 - 42	1 (Year Based)	0.45 (0.065)	201.8	188.683		
Cabazon	S of 3427	1 (Year Based)	0.45 (0.065)	23.3	21.7855		
Cabazon/Kelp Greenling	WA			25	20	20	
<i>Cabazon</i>	WA	3 (Year Based)	0.45 (0.222)	18.3	14.2374	14.2374	
<i>Kelp Greenling</i>	WA	3 (Year Based)	0.45 (0.222)	7.1	5.5238	5.5238	
Cabazon/Kelp Greenling	OR			215	198	198	
<i>Cabazon</i>	OR	1 (Year Based)	0.45 (0.065)	58.3	54.5105	54.5105	
<i>Kelp Greenling</i>	OR	1 (Year Based)	0.45 (0.083)	157	143.969	143.969	
California Scorpionfish	CW	CA Scorpionfish (Year Based)	0.45 (0.086)	319	291	291	
Canary Rockfish	CW	1 (Year Based)	0.45 (0.083)	1459	1338	1338	
Chilipepper	S of 4010	1 (Year Based)	0.45 (0.083)	2571	2358	2358	93% of the coastwide chilipepper OFL is apportioned S of 40°10' N lat. based on average historical landings.
Cowcod	S of 4010			114	84	84	
<i>Cowcod</i>	S of 3427	2 (Year Based)	0.40 (0.238)	95	72.39	72.39	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Cowcod</i>	3427 - 4010	3 (Year Based)	0.40 (0.398)	18.9	11.3778	11.3778	
Darkblotched Rockfish	CW	1 (Year Based)	0.45 (0.074)	953	882	882	
Dover Sole	CW	1 (Year Based)	0.45 (0.100)	93547	84192	50000	
English Sole	CW	2 (Year Based)	0.45 (0.174)	11107	9175	9175	
Lingcod	N of 4010	1 (Year Based)	0.45 (0.074)	5816	5386	5369	OFLs are projected from the 2017 assessment, which assessed two stocks north and south of 42° N lat. The relative biomass and OFLs are reapportioned north and south of the 40°10' N lat. management line by using the most recent 5-year average percentage of survey biomass of lingcod between 40°10' and 42° N lat., which is 21.3% of the survey biomass in California.
Lingcod	S of 4010	1 (Year Based)	0.45 (0.074)	1255	1162	1102	OFLs are projected from the 2017 assessment, which assessed two stocks north and south of 42° N lat. The relative biomass and OFLs are reapportioned north and south of the 40°10' N lat. management line by using the most recent 5-year average percentage of survey biomass of lingcod between 40°10' and 42° N lat., which is 21.3% of the survey biomass in California.
Longnose Skate	CW	2 (Year Based)	0.45 (0.126)	2086	1823	1823	
Longspine Thornyhead	CW	2 (Year Based)	0.40 (0.320)	5097	3466		
Longspine Thornyhead	N of 3427	2 (Year Based)	0.40 (0.320)			2634	ACLs are determined based on an apportionment of the coastwide ABC north (76%) and south (24%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Longspine Thornyhead	S of 3427	2 (Year Based)	0.40 (0.320)			832	ACLs are determined based on an apportionment of the coastwide ABC north (76%) and south (24%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Pacific Ocean Perch	N of 4010	2 (Year Based)	0.45 (0.143)	4497	3854	3854	
Petrale Sole	CW	1 (Year Based)	0.45 (0.065)	4402	4115	4115	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
Sablefish	CW	1 (Year Based)	0.45 (0.065)	9402	8791		
Sablefish	N of 36	1 (Year Based)	0.45 (0.065)			6479	The ACLs are apportioned north (78.4%) and south (21.5%) of 40°10' N lat. using the coastwide ABCs based on average trawl survey biomass from 2014-2018.
Sablefish	S of 36	1 (Year Based)	0.45 (0.065)			2312	The ACLs are apportioned north (78.4%) and south (21.5%) of 40°10' N lat. using the coastwide ABCs based on average trawl survey biomass from 2014-2018.
Shortbelly	CW	3 (Year Based)	0.40 (0.398)	6950	4184	2000	
Shortspine Thornyhead	CW	2 (Year Based)	0.40 (0.320)	3211	2183		
Shortspine Thornyhead	N of 3427	2 (Year Based)	0.40 (0.320)			1428	ACLs are determined based on an apportionment of the coastwide ABC north (65.4%) and south (34.6%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Shortspine Thornyhead	S of 3427	2 (Year Based)	0.40 (0.320)			756	ACLs are determined based on an apportionment of the coastwide ABC north (65.4%) and south (34.6%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Spiny Dogfish	CW	2 (Year Based)	0.40 (0.346)	2479	1621	1621	
Splitnose	S of 4010	1 (Year Based)	0.45 (0.108)	1868	1666	1666	
Widow Rockfish	CW	1 (Year Based)	0.45 (0.065)	15749	14725	14725	
Yellowtail Rockfish	N of 4010	1 (Year Based)	0.45 (0.074)	6534	6050	6050	
Pacific Cod	CW	3 (Year Based)	0.40 (0.398)	3200	1926	1600	
Starry Flounder	CW	3 (Year Based)	0.40 (0.398)	652	392	392	
Blue/Deacon/Black Rockfish	OR		0.45 (0.044)	676	603	603	
<i>Black Rockfish</i>	<i>OR</i>	<i>2 (Year Based)</i>	<i>NA</i>	<i>570</i>	<i>512</i>	<i>512</i>	
<i>Blue</i>	<i>OR</i>	<i>2 (Year Based)</i>	<i>0.45 (0.143)</i>	<i>105.7</i>	<i>90.5849</i>	<i>90.5849</i>	
Nearshore Rockfish North	N of 4010			94	79	79	
<i>Black and Yellow</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.014</i>	<i>0.0109</i>	<i>0.0109</i>	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
Blue	42 - 4010	2 (Year Based)	0.45 (0.143)	33.4	28.6238	28.6238	10% of the CA OFL N of 34°27' N lat. is apportioned north of 40°10' N lat. (see Appendix D of the 2017 Assessment).
Blue	WA	3 (Year Based)	0.45 (0.222)	8.1	6.3018	6.3018	
Brown	N of 4010	2 (Year Based)	0.45 (0.174)	2.0985	1.7333	1.7333	The portion of the coastwide stock north of 40°10' N lat. (1.2%) based on the proportion of cumulative removals by area during 1916-2012.
Calico	N of 4010	3 (Year Based)	0.45 (0.222)				
China	WA	2 (Year Based)	0.45 (0.159)	10.82	9.0996	9.0996	OFLs are projected from the Northern Model in the 2015 assessment.
China	4010 - 4616	2 (Year Based)	0.45 (0.159)	21.57	18.1404	18.1404	OFLs are projected from the Central Model in the 2015 assessment.
Copper	N of 4010	2 (Year Based)	0.45 (0.174)	9.8178	8.1095	8.1095	7.3% of the OFL estimated from the Northern Model (34°27' N lat. to U.S.-Can border) is apportioned N of 40°10' N lat. based on the proportion of cumulative removals by area during 1916-2012.
Gopher	N of 4010	3 (Year Based)	0.45 (0.222)				
Grass	N of 4010	3 (Year Based)	0.45 (0.222)	0.657	0.5111	0.5111	
Kelp	N of 4010	3 (Year Based)	0.45 (0.222)	0.009	0.007	0.007	
Olive	N of 4010	3 (Year Based)	0.45 (0.222)	0.315	0.2451	0.2451	
Quillback	N of 4010	3 (Year Based)	0.45 (0.222)	7.37	5.7339	5.7339	
Treefish	N of 4010	3 (Year Based)	0.45 (0.222)	0.2165	0.1684	0.1684	
Nearshore Rockfish South	S of 4010			1232	1016	1016	
Blue	4010 - 3427	2 (Year Based)	0.45 (0.143)	300.6	257.6142	257.6142	90% of the CA OFL N of 34°27' N lat. is apportioned south of 40°10' N lat. (see Appendix D of the 2017 Assessment).
Blue	S of 3427	3 (Year Based)	0.45 (0.222)	21.8	16.9604	16.9604	
Brown	S of 4010	2 (Year Based)	0.45 (0.174)	179.7015	148.4335	148.4335	The portion of the coastwide stock north of 40°10' N lat. (98.8%) based on the proportion of cumulative removals by area during 1916-2012.
Calico	S of 4010	3 (Year Based)	0.45 (0.222)				
China	S of 4010	2 (Year Based)	0.45 (0.159)	15.46	13.0019	12.22	OFLs are projected from the Southern Model in the 2015 assessment.
Copper	S of 4010	2 (Year Based)	0.45 (0.174)	247.4322	204.379	204.379	92.7% of the OFL estimated from the Northern Model (34°27' N lat. to U.S.-Can border) is apportioned S of 40°10' N lat.

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
							<i>based on the proportion of cumulative removals by area during 1916-2012.</i>
Gopher	S of 4010	2 (Year Based)	0.45 (0.126)	136	118.864	118.864	Assessed and managed as a “complex” with Gopher and Black-and-Yellow rockfishes.
<i>Grass</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>59.6267</i>	<i>46.3896</i>	<i>46.3896</i>	
<i>Kelp</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>27.6594</i>	<i>21.519</i>	<i>21.519</i>	
<i>Olive</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>224.6426</i>	<i>174.7719</i>	<i>174.7719</i>	
<i>Quillback</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>5.3852</i>	<i>4.1897</i>	<i>4.1897</i>	
<i>Treefish</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>13.2295</i>	<i>10.2926</i>	<i>10.2926</i>	
Other Fish	CW			286	223	223	
<i>Kelp Greenling</i>	CA	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>118.9</i>	<i>92.5042</i>	<i>92.5042</i>	
<i>Leopard Shark</i>	CW	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>167.1</i>	<i>130.0038</i>	<i>130</i>	
Other Flatfish	CW			7714	4802	4802	
<i>Butter Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>4.631</i>	<i>2.7879</i>	<i>2.7879</i>	<i>Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.</i>
<i>Curlfin Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>8.242</i>	<i>4.9617</i>	<i>4.9617</i>	<i>Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.</i>
<i>Flathead Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>35</i>	<i>21.07</i>	<i>21.07</i>	<i>Max. catch = 35 mt in 2005</i>
<i>Pacific Sanddab</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>4801</i>	<i>2890.202</i>	<i>2890.202</i>	
<i>Rex Sole</i>	CW	<i>2 (Year Based)</i>	<i>0.40 (0.320)</i>	<i>2025.61</i>	<i>1377.4148</i>	<i>1377.4148</i>	<i>Bayesian projections differ from the calculated ABCs.</i>
<i>Rock Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>66.7</i>	<i>40.1534</i>	<i>40.1534</i>	
<i>Sand Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>773.2</i>	<i>465.4664</i>	<i>465.4664</i>	
Shelf Rockfish North	N of 4010			1888	1511	1511	
<i>Bocaccio</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>284</i>	<i>220.952</i>	<i>220.952</i>	
<i>Bronzespotted</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Chameleon</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Chilipepper</i>	<i>N of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.083)</i>	<i>193.55</i>	<i>177.4854</i>	<i>177.4854</i>	<i>7% of the coastwide chilipepper OFL is apportioned N of 40°10' N lat. based on average historical landings.</i>
<i>Cowcod</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.567</i>	<i>0.4411</i>	<i>0.4411</i>	
<i>Flag</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.1</i>	<i>0.0778</i>	<i>0.0778</i>	
<i>Freckled</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Greenblotched</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>1.3</i>	<i>1.0114</i>	<i>1.0114</i>	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Greenspotted</i>	42 - 4010	2 (Year Based)	0.45 (0.190)	9.3	7.533	7.34	<i>The OFLs projected from the Northern California Model are apportioned north (22.2%) and south (77.8%) of 40°10' N lat. based on average historical (1978-2001) landings.</i>
<i>Greenspotted</i>	WA - OR	3 (Year Based)	0.45 (0.222)	6.1	4.7458	4.7458	
<i>Greenstriped</i>	N of 4010	2 (Year Based)	0.45 (0.205)	896.1225	712.4174	712.4174	<i>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>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Harlequin</i>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Honeycomb</i>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Mexican</i>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Pink</i>	N of 4010	3 (Year Based)	0.45 (0.222)	0.004	0.0031	0.0031	
<i>Pinkrose</i>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Puget Sound</i>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Pygmy</i>	N of 4010	3 (Year Based)	0.45 (0.222)				
<i>Redstripe</i>	N of 4010	3 (Year Based)	0.45 (0.222)	269.9	209.9822	209.9822	
<i>Rosethorn</i>	N of 4010	3 (Year Based)	0.45 (0.222)	12.9	10.0362	10.0362	
<i>Rosy</i>	N of 4010	3 (Year Based)	0.45 (0.222)	3	2.334	2.334	
<i>Silvergray</i>	N of 4010	3 (Year Based)	0.45 (0.222)	159.4	124.0132	124.0132	
<i>Speckled</i>	N of 4010	3 (Year Based)	0.45 (0.222)	0.2	0.1556	0.1556	
<i>Squarespot</i>	N of 4010	3 (Year Based)	0.45 (0.222)	0.2	0.1556	0.1556	
<i>Starry</i>	N of 4010	3 (Year Based)	0.45 (0.222)	0.0037	0.0029	0.0029	
<i>Stripetail</i>	N of 4010	3 (Year Based)	0.45 (0.222)	40.4	31.4312	31.4312	
<i>Swordspine</i>	N of 4010	3 (Year Based)	0.45 (0.222)	0.0001	0.0001	0.0001	
<i>Tiger</i>	N of 4010	3 (Year Based)	0.45 (0.222)	1	0.778	0.778	
<i>Vermilion</i>	N of 4010	3 (Year Based)	0.45 (0.222)	9.7	7.5466	7.5466	
Shelf Rockfish South	S of 4010			1842	1439	1438	
<i>Bronzespotted</i>	S of 4010	3 (Year Based)	0.45 (0.222)	3.6	2.8008	2.8008	
<i>Chameleon</i>	S of 4010	3 (Year Based)	0.45 (0.222)				
<i>Flag</i>	S of 4010	3 (Year Based)	0.45 (0.222)	23.4	18.2052	18.2052	
<i>Freckled</i>	S of 4010	3 (Year Based)	0.45 (0.222)				

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Greenblotched</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>23.1</i>	<i>17.9718</i>	<i>17.9718</i>	
<i>Greenspotted</i>	<i>4010 - 3427</i>	<i>2 (Year Based)</i>	<i>0.45 (0.190)</i>	<i>32.58</i>	<i>26.3898</i>	<i>25.71</i>	<i>The OFLs projected from the Northern California Model are apportioned north (22.2%) and south (77.8%) of 40°10' N lat. based on average historical (1978-2001) landings.</i>
<i>Greenspotted</i>	<i>S of 3427</i>	<i>2 (Year Based)</i>	<i>0.45 (0.190)</i>	<i>45.4321</i>	<i>36.8</i>	<i>36.8</i>	
<i>Greenstriped</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.205)</i>	<i>164.3775</i>	<i>130.6801</i>	<i>130.6801</i>	<i>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>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Harlequin</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Honeycomb</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>9.9</i>	<i>7.7022</i>	<i>7.7022</i>	
<i>Mexican</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>5.1</i>	<i>3.9678</i>	<i>3.9678</i>	
<i>Pink</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>2.5</i>	<i>1.945</i>	<i>1.945</i>	
<i>Pinkrose</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Pygmy</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Redstripe</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.5</i>	<i>0.389</i>	<i>0.389</i>	
<i>Rosethorn</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>2.1</i>	<i>1.6338</i>	<i>1.6338</i>	
<i>Rosy</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>44.5</i>	<i>34.621</i>	<i>34.621</i>	
<i>Silvergray</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.5</i>	<i>0.389</i>	<i>0.389</i>	
<i>Speckled</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>39.4</i>	<i>30.6532</i>	<i>30.6532</i>	
<i>Squarespot</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>11.1</i>	<i>8.6358</i>	<i>8.6358</i>	
<i>Starry</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>62.6</i>	<i>48.7028</i>	<i>48.7028</i>	
<i>Stripetail</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>23.6</i>	<i>18.3608</i>	<i>18.3608</i>	
<i>Swordspine</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>14.2</i>	<i>11.0476</i>	<i>11.0476</i>	
<i>Tiger</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.04</i>	<i>0.0311</i>	<i>0.0311</i>	
<i>Vermilion</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>269.3</i>	<i>209.5154</i>	<i>209.5154</i>	
<i>Yellowtail Rockfish</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>1064.4</i>	<i>828.1032</i>	<i>828.1032</i>	
Slope Rockfish North	N of 4010			1862	1595	1595	
<i>Aurora</i>	<i>N of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.091)</i>	<i>17.5</i>	<i>15.9075</i>	<i>15.9075</i>	<i>The portion of the coastwide stock north of 40°10' N lat. (19%) is based on average survey biomass.</i>
<i>Bank</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>17.2</i>	<i>13.3816</i>	<i>13.3816</i>	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Blackgill Rockfish</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>4.7</i>	<i>3.6566</i>	<i>3.6566</i>	
<i>Redbanded</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>45.3</i>	<i>35.2434</i>	<i>35.2434</i>	
<i>Rougheye/Blackspotted</i>	<i>N of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.174)</i>	<i>232.26</i>	<i>191.8468</i>	<i>191.8468</i>	<i>98% of the coastwide OFL is apportioned north of 40°10' N. lat. based on average landings during 1985-2012.</i>
<i>Sharpchin</i>	<i>N of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.174)</i>	<i>292.3032</i>	<i>241.4424</i>	<i>241.4424</i>	<i>80% of coastwide OFL is apportioned to the N of 40°10' N lat.</i>
<i>Shortraker</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>18.7</i>	<i>14.5486</i>	<i>14.5486</i>	
<i>Splitnose</i>	<i>N of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.108)</i>	<i>1041.77</i>	<i>929.2588</i>	<i>929.2588</i>	
<i>Yellowmouth</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>192.4</i>	<i>149.6872</i>	<i>149.6872</i>	
Slope Rockfish South	S of 4010			873	709	709	
<i>Aurora</i>	<i>S of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.091)</i>	<i>74.5</i>	<i>67.7205</i>	<i>67.7205</i>	<i>The portion of the coastwide stock south of 40°10' N lat. (81%) is based on average survey biomass.</i>
<i>Bank</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>503.2</i>	<i>391.4896</i>	<i>391.4896</i>	
<i>Blackgill Rockfish</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.143)</i>	<i>206</i>	<i>176.542</i>	<i>176.542</i>	
<i>Pacific Ocean Perch</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Redbanded</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>10.4</i>	<i>8.0912</i>	<i>8.0912</i>	
<i>Rougheye/Blackspotted</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.174)</i>	<i>4.74</i>	<i>3.9152</i>	<i>3.9152</i>	<i>2% of the coastwide OFL is apportioned south of 40°10' N. lat. based on average landings during 1985-2012.</i>
<i>Sharpchin</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.174)</i>	<i>73.0758</i>	<i>60.3606</i>	<i>60.3606</i>	<i>20% of coastwide OFLs are apportioned S of 40°10' N lat.</i>
<i>Shortraker</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.1</i>	<i>0.0778</i>	<i>0.0778</i>	
<i>Yellowmouth</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.8</i>	<i>0.6224</i>	<i>0.6224</i>	

Table 2-2. 2022 harvest specifications (overfishing limits (OFLs in mt), acceptable biological catches (ABCs in mt), and annual catch limits (ACLs in mt)) under preferred harvest control rules and stock complex restructuring for determining these specifications, for West Coast groundfish stocks and stock complexes (overfished/rebuilding stocks in CAPS; stocks with new assessments in bold; component stocks in stock complexes in italics).

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
YELLOWEYE ROCKFISH	CW	1 (Year Based)	0.40 (0.152)	98	83	51	The ACL is derived from the 2017 yelloweye rebuilding analysis under the 65% SPR harvest rate.
Arrowtooth Flounder	CW	2 (Year Based)	0.40 (0.281)	11764	8458	8458	
Big Skate	CW	2 (Year Based)	0.45 (0.135)	1606	1389	1389	
Black Rockfish	WA	1 (Year Based)	0.45 (0.087)	319	291	291	
Black Rockfish	CA	1 (Year Based)	0.45 (0.087)	373	341	341	
Bocaccio	S of 4010	1 (Year Based)	0.45 (0.078)	1870	1724	1724	7.4% of the assessed area (Conception area N to Cape Blanco) OFL is deducted to account for the portion of the stock north of 40°10' N lat.
Cabazon	CA			210	195	195	
<i>Cabazon</i>	<i>3427 - 42</i>	<i>1 (Year Based)</i>	<i>0.45 (0.070)</i>	<i>187.6</i>	<i>174.468</i>		
<i>Cabazon</i>	<i>S of 3427</i>	<i>1 (Year Based)</i>	<i>0.45 (0.070)</i>	<i>22.6</i>	<i>21.018</i>		
Cabazon/Kelp Greenling	WA			22	17	17	
<i>Cabazon</i>	WA	3 (Year Based)	0.45 (0.222)	14.9	11.5922	11.5922	
<i>Kelp Greenling</i>	WA	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>7.1</i>	<i>5.5238</i>	<i>5.5238</i>	
Cabazon/Kelp Greenling	OR			208	190	190	
<i>Cabazon</i>	OR	1 (Year Based)	0.45 (0.070)	56.1	52.173	52.173	
<i>Kelp Greenling</i>	OR	1 (Year Based)	0.45 (0.087)	151.4	138.2282	138.2282	
California Scorpionfish	CW	CA Scorpionfish (Year Based)	0.45 (0.091)	303	275	275	
Canary Rockfish	CW	1 (Year Based)	0.45 (0.087)	1432	1307	1307	
Chilipepper	S of 4010	1 (Year Based)	0.45 (0.087)	2474	2259	2259	93% of the coastwide chilipepper OFL is apportioned S of 40°10' N lat. based on average historical landings.
Cowcod	S of 4010			113	82	82	
<i>Cowcod</i>	<i>S of 3427</i>	<i>2 (Year Based)</i>	<i>0.40 (0.253)</i>	<i>93.9412</i>	<i>70.1433</i>	<i>70.1433</i>	
<i>Cowcod</i>	<i>3427 - 4010</i>	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>19.2</i>	<i>11.5584</i>	<i>11.5584</i>	
Darkblotched Rockfish	CW	1 (Year Based)	0.45 (0.078)	901	831	831	
Dover Sole	CW	1 (Year Based)	0.45 (0.104)	87540	78436	50000	
English Sole	CW	2 (Year Based)	0.45 (0.182)	11127	9101	9101	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
Lingcod	N of 4010	1 (Year Based)	0.45 (0.078)	5395	4974	4958	OFLs are projected from the 2017 assessment, which assessed two stocks north and south of 42° N lat. The relative biomass and OFLs are reapportioned north and south of the 40°10' N lat. management line by using the most recent 5-year average percentage of survey biomass of lingcod between 40°10' and 42° N lat., which is 21.3% of the survey biomass in California.
Lingcod	S of 4010	1 (Year Based)	0.45 (0.078)	1334	1230	1172	OFLs are projected from the 2017 assessment, which assessed two stocks north and south of 42° N lat. The relative biomass and OFLs are reapportioned north and south of the 40°10' N lat. management line by using the most recent 5-year average percentage of survey biomass of lingcod between 40°10' and 42° N lat., which is 21.3% of the survey biomass in California.
Longnose Skate	CW	2 (Year Based)	0.45 (0.135)	2036	1761	1761	
Longspine Thornyhead	CW	2 (Year Based)	0.40 (0.333)	4838	3227		
Longspine Thornyhead	N of 3427	2 (Year Based)	0.40 (0.333)			2452	ACLs are determined based on an apportionment of the coastwide ABC north (76%) and south (24%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Longspine Thornyhead	S of 3427	2 (Year Based)	0.40 (0.333)			774	ACLs are determined based on an apportionment of the coastwide ABC north (76%) and south (24%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Pacific Ocean Perch	N of 4010	2 (Year Based)	0.45 (0.151)	4371	3711	3711	
Petrale Sole	CW	1 (Year Based)	0.45 (0.070)	3936	3660	3660	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
Sablefish	CW	1 (Year Based)	0.45 (0.070)	9005	8375		
Sablefish	N of 36	1 (Year Based)	0.45 (0.070)			6172	The ACLs are apportioned north (78.4%) and south (21.5%) of 40°10' N lat. using the coastwide ABCs based on average trawl survey biomass from 2014-2018.
Sablefish	S of 36	1 (Year Based)	0.45 (0.070)			2203	The ACLs are apportioned north (78.4%) and south (21.5%) of 40°10' N lat. using the coastwide ABCs based on average trawl survey biomass from 2014-2018.
Shortbelly	CW	3 (Year Based)	0.40 (0.398)	6950	4184	2000	
Shortspine Thornyhead	CW	2 (Year Based)	0.40 (0.333)	3194	2130		
Shortspine Thornyhead	N of 3427	2 (Year Based)	0.40 (0.333)			1393	ACLs are determined based on an apportionment of the coastwide ABC north (65.4%) and south (34.6%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Shortspine Thornyhead	S of 3427	2 (Year Based)	0.40 (0.333)			737	ACLs are determined based on an apportionment of the coastwide ABC north (65.4%) and south (34.6%) of 34°27' N lat. based on the 2003-2012 average swept area biomass estimated north and south of Pt. Conception at 34°27' N lat. in the NWFSC trawl survey.
Spiny Dogfish	CW	2 (Year Based)	0.40 (0.358)	2469	1585	1585	
Splitnose	S of 4010	1 (Year Based)	0.45 (0.113)	1837	1630	1630	
Widow Rockfish	CW	1 (Year Based)	0.45 (0.070)	14826	13788	13788	
Yellowtail Rockfish	N of 4010	1 (Year Based)	0.45 (0.078)	6324	5831	5831	
Pacific Cod	CW	3 (Year Based)	0.40 (0.398)	3200	1926	1600	
Starry Flounder	CW	3 (Year Based)	0.40 (0.398)	652	392	392	
Blue/Deacon/Black Rockfish	OR		0.45 (0.044)	672	600	600	
<i>Black Rockfish</i>	<i>OR</i>	<i>2 (Year Based)</i>	<i>NA</i>	<i>566</i>	<i>512</i>	<i>512</i>	
<i>Blue</i>	<i>OR</i>	<i>2 (Year Based)</i>	<i>0.45 (0.151)</i>	<i>103.1</i>	<i>87.5319</i>	<i>87.5319</i>	
Nearshore Rockfish North	N of 4010			93	77	77	
<i>Black and Yellow</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.0135</i>	<i>0.0105</i>	<i>0.0105</i>	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
Blue	42 - 4010	2 (Year Based)	0.45 (0.151)	33.6	28.5264	28.5264	10% of the CA OFL N of 34°27' N lat. is apportioned north of 40°10' N lat. (see Appendix D of the 2017 Assessment).
Blue	WA	3 (Year Based)	0.45 (0.222)	7.8	6.0684	6.0684	
Brown	N of 4010	2 (Year Based)	0.45 (0.182)	2.0846	1.7052	1.7052	The portion of the coastwide stock north of 40°10' N lat. (1.2%) based on the proportion of cumulative removals by area during 1916-2012.
Calico	N of 4010	3 (Year Based)	0.45 (0.222)				
China	WA	2 (Year Based)	0.45 (0.167)	10.43	8.6882	8.6882	OFLs are projected from the Northern Model in the 2015 assessment.
China	4010 - 4616	2 (Year Based)	0.45 (0.167)	21.08	17.5596	17.5596	OFLs are projected from the Central Model in the 2015 assessment.
Copper	N of 4010	2 (Year Based)	0.45 (0.182)	9.8594	8.065	8.065	7.3% of the OFL estimated from the Northern Model (34°27' N lat. to U.S.-Can border) is apportioned N of 40°10' N lat. based on the proportion of cumulative removals by area during 1916-2012.
Gopher	N of 4010	3 (Year Based)	0.45 (0.222)				
Grass	N of 4010	3 (Year Based)	0.45 (0.222)	0.6567	0.5109	0.5109	
Kelp	N of 4010	3 (Year Based)	0.45 (0.222)	0.0092	0.0072	0.0072	
Olive	N of 4010	3 (Year Based)	0.45 (0.222)	0.3152	0.2452	0.2452	
Quillback	N of 4010	3 (Year Based)	0.45 (0.222)	7.3742	5.7371	5.7371	
Treefish	N of 4010	3 (Year Based)	0.45 (0.222)	0.2165	0.1684	0.1684	
Nearshore Rockfish South	S of 4010			1233	1011	1010	
Blue	4010 - 3427	2 (Year Based)	0.45 (0.151)	302.4	256.7376	256.7376	90% of the CA OFL N of 34°27' N lat. is apportioned south of 40°10' N lat. (see Appendix D of the 2017 Assessment).
Blue	S of 3427	3 (Year Based)	0.45 (0.222)	21.8	16.9604	16.9604	
Brown	S of 4010	2 (Year Based)	0.45 (0.182)	178.5154	146.0256	146.0256	The portion of the coastwide stock north of 40°10' N lat. (98.8%) based on the proportion of cumulative removals by area during 1916-2012.
Calico	S of 4010	3 (Year Based)	0.45 (0.222)				
China	S of 4010	2 (Year Based)	0.45 (0.167)	15.94	13.278	12.21	OFLs are projected from the Southern Model in the 2015 assessment.

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Copper</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.182)</i>	<i>246.9806</i>	<i>202.0301</i>	<i>202.0301</i>	<i>92.7% of the OFL estimated from the Northern Model (34°27' N lat. to U.S.-Can border) is apportioned S of 40°10' N lat. based on the proportion of cumulative removals by area during 1916-2012.</i>
Gopher	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.135)</i>	<i>137</i>	<i>118.505</i>	<i>118.505</i>	<i>Assessed and managed as a “complex” with Gopher and Black-and-Yellow rockfishes.</i>
<i>Grass</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>59.6267</i>	<i>46.3896</i>	<i>46.3896</i>	
<i>Kelp</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>27.6594</i>	<i>21.519</i>	<i>21.519</i>	
<i>Olive</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>224.6426</i>	<i>174.7719</i>	<i>174.7719</i>	
<i>Quillback</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>5.3852</i>	<i>4.1897</i>	<i>4.1897</i>	
<i>Treefish</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>13.2295</i>	<i>10.2926</i>	<i>10.2926</i>	
Other Fish	CW			286	223	223	
<i>Kelp Greenling</i>	CA	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>118.9</i>	<i>92.5042</i>	<i>92.5042</i>	
<i>Leopard Shark</i>	CW	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>167.1</i>	<i>130.0038</i>	<i>130</i>	
Other Flatfish	CW			7808	4838	4838	
<i>Butter Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>4.6308</i>	<i>2.7877</i>	<i>2.7877</i>	<i>Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.</i>
<i>Curlfin Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>8.2423</i>	<i>4.9619</i>	<i>4.9619</i>	<i>Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study.</i>
<i>Flathead Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>35</i>	<i>21.07</i>	<i>21.07</i>	<i>Max. catch = 35 mt in 2005</i>
<i>Pacific Sanddab</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>4801</i>	<i>2890.202</i>	<i>2890.202</i>	
<i>Rex Sole</i>	CW	<i>2 (Year Based)</i>	<i>0.40 (0.333)</i>	<i>2119.65</i>	<i>1413.8066</i>	<i>1413.8066</i>	<i>Bayesian projections differ from the calculated ABCs.</i>
<i>Rock Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>66.7</i>	<i>40.1534</i>	<i>40.1534</i>	
<i>Sand Sole</i>	CW	<i>3 (Year Based)</i>	<i>0.40 (0.398)</i>	<i>773.2</i>	<i>465.4664</i>	<i>465.4664</i>	
Shelf Rockfish North	N of 4010			1821	1450	1450	
<i>Bocaccio</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>284.0136</i>	<i>220.9626</i>	<i>220.9626</i>	
<i>Bronzespotted</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Chameleon</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Chilipepper</i>	<i>N of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.087)</i>	<i>186.2</i>	<i>170.0006</i>	<i>170.0006</i>	<i>7% of the coastwide chilipepper OFL is apportioned N of 40°10' N lat. based on average historical landings.</i>

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Cowcod</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.567</i>	<i>0.4411</i>	<i>0.4411</i>	
<i>Flag</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.0724</i>	<i>0.0563</i>	<i>0.0563</i>	
<i>Freckled</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Greenblotched</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>1.2774</i>	<i>0.9938</i>	<i>0.9938</i>	
<i>Greenspotted</i>	<i>42 - 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.197)</i>	<i>9.34</i>	<i>7.5</i>	<i>7.33</i>	<i>The OFLs projected from the Northern California Model are apportioned north (22.2%) and south (77.8%) of 40°10' N lat. based on average historical (1978-2001) landings.</i>
<i>Greenspotted</i>	<i>WA - OR</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>6.078</i>	<i>4.7287</i>	<i>4.7287</i>	
<i>Greenstriped</i>	<i>N of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.212)</i>	<i>836.719</i>	<i>659.3346</i>	<i>659.3346</i>	<i>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>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Harlequin</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Honeycomb</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Mexican</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Pink</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.0037</i>	<i>0.0029</i>	<i>0.0029</i>	
<i>Pinkrose</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Puget Sound</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Pygmy</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Redstripe</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>269.9106</i>	<i>209.9904</i>	<i>209.9904</i>	
<i>Rosethorn</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>12.8971</i>	<i>10.0339</i>	<i>10.0339</i>	
<i>Rosy</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>3.034</i>	<i>2.3605</i>	<i>2.3605</i>	
<i>Silvergray</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>159.4204</i>	<i>124.0291</i>	<i>124.0291</i>	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Speckled</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.1711</i>	<i>0.1331</i>	<i>0.1331</i>	
<i>Squarespot</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.1724</i>	<i>0.1341</i>	<i>0.1341</i>	
<i>Starry</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.0037</i>	<i>0.0029</i>	<i>0.0029</i>	
<i>Stripetail</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>40.3954</i>	<i>31.4276</i>	<i>31.4276</i>	
<i>Swordspine</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>	
<i>Tiger</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.9689</i>	<i>0.7538</i>	<i>0.7538</i>	
<i>Vermilion</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>9.7168</i>	<i>7.5597</i>	<i>7.5597</i>	
Shelf Rockfish South	S of 4010			1832	1429	1428	
<i>Bronzespotted</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>3.6465</i>	<i>2.837</i>	<i>2.837</i>	
<i>Chameleon</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Flag</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>23.4239</i>	<i>18.2238</i>	<i>18.2238</i>	
<i>Freckled</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Greenblotched</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>23.1305</i>	<i>17.9955</i>	<i>17.9955</i>	
<i>Greenspotted</i>	<i>4010 - 3427</i>	<i>2 (Year Based)</i>	<i>0.45 (0.197)</i>	<i>32.72</i>	<i>26.2742</i>	<i>25.71</i>	<i>The OFLs projected from the Northern California Model are apportioned north (22.2%) and south (77.8%) of 40°10' N lat. based on average historical (1978-2001) landings.</i>
<i>Greenspotted</i>	<i>S of 3427</i>	<i>2 (Year Based)</i>	<i>0.45 (0.197)</i>	<i>45.5369</i>	<i>36.5661</i>	<i>36.5661</i>	
<i>Greenstriped</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.212)</i>	<i>153.481</i>	<i>120.943</i>	<i>120.943</i>	<i>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>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Harlequin</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Honeycomb</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>9.8668</i>	<i>7.6764</i>	<i>7.6764</i>	
<i>Mexican</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>5.0532</i>	<i>3.9314</i>	<i>3.9314</i>	
<i>Pink</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>2.5</i>	<i>1.945</i>	<i>1.945</i>	
<i>Pinkrose</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Pygmy</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				
<i>Redstripe</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.4926</i>	<i>0.3832</i>	<i>0.3832</i>	

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Rosethorn</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>2.1305</i>	<i>1.6575</i>	<i>1.6575</i>	
<i>Rosy</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>44.5082</i>	<i>34.6274</i>	<i>34.6274</i>	
<i>Silvergray</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.5376</i>	<i>0.4183</i>	<i>0.4183</i>	
<i>Speckled</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>39.3813</i>	<i>30.6387</i>	<i>30.6387</i>	
<i>Squarespot</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>11.1</i>	<i>8.6358</i>	<i>8.6358</i>	
<i>Starry</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>62.5716</i>	<i>48.6807</i>	<i>48.6807</i>	
<i>Stripetail</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>23.6233</i>	<i>18.3789</i>	<i>18.3789</i>	
<i>Swordspine</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>14.2159</i>	<i>11.06</i>	<i>11.06</i>	
<i>Tiger</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.0399</i>	<i>0.031</i>	<i>0.031</i>	
<i>Vermilion</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>269.2764</i>	<i>209.497</i>	<i>209.497</i>	
<i>Yellowtail Rockfish</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>1064.4392</i>	<i>828.1337</i>	<i>828.1337</i>	
Slope Rockfish North	N of 4010			1842	1568	1568	
<i>Aurora</i>	<i>N of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.096)</i>	<i>17.4</i>	<i>15.7296</i>	<i>15.7296</i>	<i>The portion of the coastwide stock north of 40°10' N lat. (19%) is based on average survey biomass.</i>
<i>Bank</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>17.2375</i>	<i>13.4108</i>	<i>13.4108</i>	
<i>Blackgill Rockfish</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>4.7</i>	<i>3.6566</i>	<i>3.6566</i>	
<i>Redbanded</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>45.2618</i>	<i>35.2137</i>	<i>35.2137</i>	
<i>Rougheye/Blackspotted</i>	<i>N of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.182)</i>	<i>233.24</i>	<i>190.7903</i>	<i>190.7903</i>	<i>98% of the coastwide OFL is apportioned north of 40°10' N. lat. based on average landings during 1985-2012.</i>
<i>Sharpchin</i>	<i>N of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.182)</i>	<i>288.8576</i>	<i>236.2855</i>	<i>236.2855</i>	<i>80% of coastwide OFL is apportioned to the N of 40°10' N lat.</i>
<i>Shortraker</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>18.7038</i>	<i>14.5516</i>	<i>14.5516</i>	
<i>Splitnose</i>	<i>N of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.113)</i>	<i>1024.53</i>	<i>908.7581</i>	<i>908.7581</i>	
<i>Yellowmouth</i>	<i>N of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>192.4467</i>	<i>149.7235</i>	<i>149.7235</i>	
Slope Rockfish South	S of 4010			871	705	705	
<i>Aurora</i>	<i>S of 4010</i>	<i>1 (Year Based)</i>	<i>0.45 (0.096)</i>	<i>74.4</i>	<i>67.2576</i>	<i>67.2576</i>	<i>The portion of the coastwide stock south of 40°10' N lat. (81%) is based on average survey biomass.</i>
<i>Bank</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>503.215</i>	<i>391.5013</i>	<i>391.5013</i>	
<i>Blackgill Rockfish</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.151)</i>	<i>205</i>	<i>174.045</i>	<i>174.045</i>	
<i>Pacific Ocean Perch</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>				

Stock or Complex	Area	Cat.	P* (ABC Buffer)	OFL	ABC	ACL	Notes
<i>Redbanded</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>10.4057</i>	<i>8.0956</i>	<i>8.0956</i>	
<i>Rougeye/Blackspotted</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.182)</i>	<i>4.76</i>	<i>3.8937</i>	<i>3.8937</i>	<i>2% of the coastwide OFL is apportioned south of 40°10' N. lat. based on average landings during 1985-2012.</i>
<i>Sharpchin</i>	<i>S of 4010</i>	<i>2 (Year Based)</i>	<i>0.45 (0.182)</i>	<i>72.2144</i>	<i>59.0714</i>	<i>59.0714</i>	<i>20% of coastwide OFLs are apportioned S of 40°10' N lat.</i>
<i>Shortraker</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.1049</i>	<i>0.0816</i>	<i>0.0816</i>	
<i>Yellowmouth</i>	<i>S of 4010</i>	<i>3 (Year Based)</i>	<i>0.45 (0.222)</i>	<i>0.8483</i>	<i>0.66</i>	<i>0.66</i>	