2025 AND 2026 GROUNDFISH HARVEST SPECIFICATIONS UNDER DEFAULT HARVEST CONTROL RULES

The Pacific Coast Groundfish Fishery Management Plan describes the framework for biennial specifications and states "...the harvest controls from the previous biennium (referred to as default harvest control rules (HCRs) are applied to the best available scientific information to determine the numerical values of the harvest specifications for the next biennial period" (Chapter 4).

The following tables provide proposed 2025 and 2026 overfishing limits (OFLs) based on the best current estimate of stock biomass, acceptable biological catches (ABCs) based on the Scientific and Statistical Committee's (SSC's) default sigma values (σ - scientific uncertainty) for each stock category and overfishing probabilities (P*s - probability of overfishing) selected by the Pacific Fishery Management Council (Council, PFMC) from the 2023-2024 management cycle, and ACLs that comport with the default HCRs.

In the following tables, harvest specification rows which have not yet been adopted are highlighted in yellow. Additionally, the Council adopted stock definitions for 14 species of groundfish under Amendment 31. For those species where existing harvest specifications comport to the stock definition delineation, the rows are highlighted in blue. However, vermilion north and south of 42° N. lat. and copper rockfishes north of 42° N. lat. have delineations that do not directly comport to existing harvest specifications. As such, their harvest specifications must be calculated and adopted, hence these stocks are highlighted in yellow as their harvest specifications are unknown at this point in the process. They are expected to be updated before the Council's September meeting.

These tables will be updated as corrections are made and consistent with PFMC decisions on 2025 and 2026 groundfish harvest specifications. Harvest specifications not yet available for 2025 and 2026 are highlighted and will be incorporated as they become available. Tables will eventually be updated on the Pacific Fisheries Information Network (PacFIN) under the <u>APEX reporting system</u> later in the harvest specifications setting process.

List of Tables

Table 1. 2025 harvest specifications (mt) and stock category designations for west coast groundfish stocks and stock complexes under default harvest control rules. Specifications not yet available in yellow highlight. Assessment year represents the most recent assessment adopted by the Council; note many yellow highlights are those to be adopted based on the 2023 assessment cycle and for those species where new stock definitions delineated areas differently than in the past. Blue highlight = defined groundfish stocks (Amendment 31).

			P*	2025	2025	2025	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
		1 (Year	0.40					
Yelloweye Rockfish	CW	Based)	(0.176)				2017	Harvest specifications not yet available.
								OFL based on the 2021 catch-only update of the 2017 update
		2 (Year	0.40					assessment (Table 1; Correa et al. 2021; Agenda Item C.6
Arrowtooth Flounder	CW	Based)	(0.320)	16,460.00	11,193.00	11,193.00	2017	Attachment 9 Sept 2021).
		2 (Year	0.45					OFL projected using a 50% SPR harvest rate in the 2019 big
Big Skate	CW	Based)	(0.159)	1,456.00	1,224.00	1,224.00	2019	skate assessment (Table 15 pg 67).
		1 (Year	0.45					
Black Rockfish	WA	Based)	(0.100)				2015	Harvest specifications not yet available.
		1 (Year	0.45					
Black Rockfish	CA	Based)	(0.100)				2015	Harvest specifications not yet available.
								OFL projected using a 50% SPR from the 2019 updated
								harvest specification projections based on new sigmas with a
								7.4% reduction to subtract the portion of the assessed stock
	S of	1 (Year	0.45					north of 40°10' N. lat. (Table 5 pg 3; Agenda Item H.8 Supp
Bocaccio	4010	Based)	(0.091)	1,849.00	1,681.00	1,681.00	2017	Attachment 2 Sept 2019).
		1 (Year	0.45					OFL projected using a 45% SPR from the 2019 assessment
Cabezon	CA	Based)	(0.083)	176.00	162.00	162.00	2019	(Table ES18 pg 41; Table ES19 pg 42).
	S of	1 (Year	0.45					OFL projected using a 45% SPR from the 2019 assessment
Cabezon	3427	Based)	(0.083)	20.50	18.80		2019	(Table ES18 pg 41).
	3427 -	1 (Year	0.45					OFL projected using a 45% SPR from the 2019 assessment
Cabezon	42	Based)	(0.083)	155.90	142.96		2019	(Table ES19 pg 42).
Cabezon/Kelp								Sum of harvest specification contributions of component
Greenling	WA			25.00	20.00	20.00		stocks in the complex.
-		3 (Year	0.45					OFL based on a DB-SRA assessment in the 2019 assessment
Cabezon	WA	Based)	(0.222)	18.30	14.24	14.24	2019	(Table 48 pg 190, unweighted-50%).
								OFL based on a 2015 DB-SRA estimate using a low
								vulnerability prior (Table 11 pg 12, Delta option 4; Agenda
								Item I.4 Attachment 4 November 2015). Low vulnerability
		3 (Year	0.45					prior from data-moderate assessment document (Figure 54 in
Kelp Greenling	WA	Based)	(0.222)	7.10	5.52	5.52	2015	
Cabezon/Kelp								Sum of harvest specification contributions of component
Greenling	OR			196.00	177.00	177.00		stocks in the complex.
		1 (Year	0.45					OFL projected using a 45% SPR from the 2019 assessment
Cabezon	OR	Based)	(0.083)	52.60	48.23	48.23	2019	

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
Kelp Greenling	OR	1 (Year Based)	0.45 (0.100)	143.00	128.70	128.70	2015	OFL projected in the 2021 catch-only update of the 2015 assessment (Table 5, Agenda Item C.8. Attachment 2 September 2021).
California Scorpionfish	CW	(Year Based)	0.45 (0.106)	273.00	244.00	244.00	2017	OFL from the 2019 catch-only update of the 2017 assessment (Table 6 pg 4; Agenda Item H.8 Supp Attachment 2 Sept 2019).
Canary Rockfish	CW	1 (Year Based)	0.45 (0.100)				2015	Harvest specifications not yet available.
Chilipepper	S of 4010	1 (Year Based)	0.45 (0.100)	2,302.00	2,072.00	2,072.00	2015	OFL from the 2019 projection update of the 2015 assessment (Table 7 pg 4; Agenda Item H.8 Supp Attachment 2 Sept 2019). OFLs are apportioned to the North (7%) and South (93%) of 40°10' N lat. based on average historical landings.S of 40°10' N lat. 2025 OFL = 2475 * 0.93 = 2301.75; 2026 OFL = 2434 * 0.93 = 2263.62.
Cowcod	S of 4010			111.00	77.00	77.00	2019	Harvest specifications are the sum of assessed area projections (South of Pt Conception 34°27' N. lat.) and DBSRA estimates (40°10' to 34°27' N. lat.).
Cowcod	S of 3427	2 (Year Based)	0.40 (0.294)	92.81	65.52	65.52	2019	OFL is based on a 50% SPR harvest rate projected in the 2019 assessment, with a time varying category 2 sigma, P* = 0.4. in 2019 projections (Table 6 pg 5; error in caption as correction is South of 34°27' N. lat.; Agenda Item H.6 Attachment 2 November 2019).
Cowcod	4010 - 3427	3 (Year Based)	0.40 (0.398)	18.33	11.04	11.04	2019	OFL is based on the 2019 DB-SRA estimate in Appendix B of the 2019 cowcod assessment (Table F2 pg 179; Percentile 50% (Median)). OFLs are apportioned to the north of 40°10' N lat. (3%) and 40°10' - 34°27' N lat. (97%) based on cumulative historical catch (Table F3 pg 179; 1916-2018).
Darkblotched Rockfish	CW	1 (Year Based)	0.45 (0.091)	830.00	754.00	754.00	2017	OFL projected using a 50% SPR in the 2021 catch-only projection update (Table 1; Lee 2021; Agenda Item C.6 Attachment 12 Sept 2021).
Dover Sole	CW	1 (Year Based)	0.45 (0.074)	49,608.00	45,937.00	45,937.00	2021	OFL projected using a 30% SPR harvest rate in the 2021 full assessment (Table 28 pg 97).
English Sole	CW	2 (Year Based)	0.45 (0.205)	11,175.00	8,884.00	8,884.00	2013	OFL is based on a 30% SPR harvest rate in the 2013 data- moderate assessment, with ACL = ABC (P* = 0.45) in 2019 projections (Table 3 pg 4; Agenda Item H.6 Attachment 2
Lingcod	N of 4010	2 (Year Based)	0.45 (0.143)	4,237.00	3,631.00	3,631.00	2021	OFLs projected using a 45% SPR harvest rate in the 2021 full assessment of lingcod North of 40°10' N lat. (Table vii pg xvi).
Lingcod	S of 4010	2 (Year Based)	0.45 (0.143)	897.00	768.00	768.00	2021	OFLs projected using a 45% SPR harvest rate in the 2021 full assessment of lingcod South of 40°10' N lat. (Table vii pg xvi).

Stock/Complex	Amaa	Catagory	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess	Notes
Stock/Complex	Area	Category	0.45	OFL	ABC	ACL	Year	Notes OFLs projected using a 45% SPR harvest rate in the 2019
Longnose Skate	CW	2 (Year Based)	(0.159)	1,922.00	1,616.00	1,616.00	2019	assessment (Table ES-6 pg 20). ACL = ABC.
Longhose skate	011	Buscaj	(0.137)	1,722.00	1,010.00	1,010.00	2017	Coastwide OFL projected using a 50% SPR harvest rate in
								the 2019 catch-only projection update (Table g pg 13). The
								coastwide ABC ($P^* = 0.4$) is apportioned N (76%) and S
								(24%) of 34°27' N lat. to determine ACLs based on the 2003-
	CITI	2 (Year	0.40	4.204.00	2 (00 00		2012	2012 average swept area biomass from the NMFS trawl
Longspine Thornyhead	CW	Based)	(0.370)	4,284.00	2,699.00		2013	survey.
								Coastwide OFL projected using a 50% SPR harvest rate in
								the 2019 catch-only projection update (Table g pg 13). The coastwide ABC ($P^* = 0.4$) is apportioned N (76%) and S
								(24%) of 34°27' N lat. to determine ACLs based on the 2003-
								2012 average swept area biomass from the NMFS trawl
Longspine	S of	2 (Year	0.40					survey. S of 34°27' N lat. 2025 ACL = ABC 2,697.92 * 0.24
Thornyhead	3427	Based)	(0.370)			648.00	2013	•
								Coastwide OFL projected using a 50% SPR harvest rate in
								the 2019 catch-only projection update (Table g pg 13). The
								coastwide ABC ($P^* = 0.4$) is apportioned N (76%) and S
								(24%) of 34°27' N lat. to determine ACLs based on the 2003-2012 average swept area biomass from the NMFS trawl
Longspine	N of	2 (Year	0.40					survey. N of 34°27' N lat. 2025 ACL = ABC 2,697.92 * 0.76
Thornyhead	3427	Based)	(0.370)			2,050.00	2013	
Thornynead	3 127	Buscaj	(0.570)			2,030.00	2013	OFL projected using a 50% SPR harvest rate in the 2019
								Pacific Ocean Perch Updated Harvest Specification
	N of	2 (Year	0.45					Projections (Table 7, Agenda Item H.8 Supplemental
Pacific Ocean Perch	4010	Based)	(0.174)	4,029.00	3,328.00	3,328.00	2017	Attachment 2 September 2019). $ACL = ABC (P^* = 0.45)$.
		1 (Year	0.45					
Petrale Sole	CW	Based)	(0.083)				2019	Harvest specifications not yet available.
C-1-1-C-1-	CW	1 (Year	0.45				2021	II.
Sablefish	CW S of	Based) 1 (Year	(0.074)				2021	Harvest specifications not yet available.
Sablefish	36	Based)	(0.074)				2021	Harvest specifications not yet available.
Saorensii	N of	1 (Year	0.45				2021	That vest specifications not yet available.
Sablefish	36	Based)	(0.074)				2021	Harvest specifications not yet available.
		2 (Year	0.40					
Shortspine Thornyhead	CW	Based)	(0.370)				2013	Harvest specifications not yet available.
Shortspine	S of	2 (Year	0.40					
Thornyhead	3427	Based)	(0.370)				2013	Harvest specifications not yet available.
Shortspine	N of	2 (Year	0.40				2012	TT 4 10 4 11 11
Thornyhead	3427	Based)	(0.370)				2013	Harvest specifications not yet available.

			P*	2025	2025	2025	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
								OFL is based on a 50% SPR harvest rate projected in the
								2021 assessment, with a category 2 sigma, $P^* = 0.4$,
		2 (Year	0.40					ACL=ABC in 2019 projections (Table 4 pg 5; Agenda Item
Spiny Dogfish	CW	Based)	(0.267)	1,857.00	1,361.00	1,361.00	2021	E.3 Supp Revised Attachment 4 November 2021).
								Projections based on the 2009 assessment using the sigmas
	S of	1 (Year	0.45					for 2020 and beyond (Table 2 pg 3; Agenda Item G.6
Splitnose	4010	Based)	(0.044)	1,724.00	1,508.00	1,508.00	2009	Attachment 2 September 2023).
		1 (Year	0.45					
Widow Rockfish	CW	Based)	(0.083)				2019	Harvest specifications not yet available.
	N of	1 (Year	0.45					
Yellowtail Rockfish	4010	Based)	(0.091)				2017	Harvest specifications not yet available.
		3 (Year	0.40					OFL is based on the highest historical catch (in 1985), ACL =
Pacific Cod	CW	Based)	(0.398)	3,200.00	1,926.00	1,600.00		50% of the OFL.
								OFL based on the 2017 DB-SRA assessment of starry
		3 (Year	0.40					flounder (Agenda Item F.6.a Supp SSC Rpt1 November
Starry Flounder	CW	Based)	(0.398)	652.00	392.00	392.00	2017	2017).
Blue/Deacon/Black			0.45					Sum of harvest specification contributions of component
Rockfish	OR		(0.044)	96.00	80.00	80.00		stocks in the complex.
_, , _ , , , , ,		2 (Year	0.45					
Black Rockfish	OR	Based)	(0.190)				2015	
								OFL projected using a 50% SPR from the 2021 updated
								harvest specification projections for blue and deacon
		2.07	0.45					rockfishes (Table 3; Agenda Item C.8 Attachment 2
DI.	O.D.	2 (Year	0.45	06.44	70.66	70.66	2017	September 2021). HG = ABC/ACL for managing OR
Blue	OR	Based)	(0.174)	96.44	79.66	79.66	2017	fisheries.
Nearshore Rockfish	N of			100.00	02.00	02.00		Sum of harvest specification contributions of component
North	4010 N of	2.07	0.45	100.00	82.00	82.00		stocks in the complex.
D111 V-11		3 (Year						
Black and Yellow	4010	Based)	(0.222)					OFI C 41 2010 4.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
								OFL from the 2019 catch-only projection update (Table g pg 16; Agenda Item H.5 Supp Revised Attachment 17
								September 2019). 10% of the CA OFL is apportioned North of 40°10' N lat. (see Appendix D of the 2017 Assessment, pg
	42 -	2 (Year	0.45					361).N of 40°10' N lat. 2025 OFL = 335.61 * 0.10 = 33.561;
Blue	4010	Based)	(0.174)	33.56	27.72	27.72	2017	2026 OFL = 335.08 * 0.10 = 33.508.
Diuc	7010	3 (Year	0.45	33.30	21.12	21.12	201/	Inferred Washington OFL provided in Appendix F (Table F2)
Blue	WA	Based)	(0.222)	7.20	5.60	5.60	2017	pg 373) of the 2017 Blue and Deacon Rockfishes assessment.
Diuc	vv A	Daseu)	(0.222)	/.20	3.00	3.00	∠01/	pg 3/3) of the 2017 blue and Deacon Rocktishes assessment.

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
		- carregory	(2000)					OFL from the 2019 harvest projection update (Table 1 pg 3;
								Agenda Item H.6 Attachment 2 November 2019). The
								portion of the coastwide stock North of 40`10 N lat. based on
	N of	2 (Year	0.45					the proportion of cumulative removals by area during 1916-2012 (~1.15%). N of 40°10' N lat. 2025 OFL = 181.9 *
Brown	4010	Based)	(0.205)	2.10	1.67	1.67	2013	
Diowii	N of	3 (Year	0.45	2.10	1.07	1.07	2013	0.0113 2.11, 2020 OTE 102.5 0.0113 2.111.
Calico	4010	Based)	(0.222)					
		,						OFLs projected from the North Model in the 2015 assessment
								updated with 2019 catch-only projections (Table r pg 34;
		2 (Year	0.45					Agenda Item H.5 Supp Revised Attachment 19 September
China	WA	Based)	(0.190)	9.45	7.65	7.65	2015	
								OFLs projected from the Central Model in the 2015 assessment updated with 2019 catch-only projections (Table r
	4010 -	2 (Year	0.45					pg 34; Agenda Item H.5 Supp Revised Attachment 19
China	4616	Based)	(0.190)	19.89	16.11	16.11	2015	
- Cimiu	1010	<i>Bustu</i>)	(0.130)	17.07	10111	10/11	2010	Harvest specifications not yet available. Stock defined as OR
	N of							and WA (N of 42). SSC will need to combine assessments to
Copper	42						2021	develop harvest specifications and harvest control rule.
	42 -	2 (Year	0.45					Harvest specifications not yet available. Stock defined as CA
Copper	4010	Based)	(0.143)				2021	(S of 42), apportioned to complex.
	N of	3 (Year	0.45					Revisions to OFL Contributions for Category 3 Stocks (Dick
Gopher	4010	Based)	(0.222)				2011	2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Обрис	4010	Dascu)	(0.222)				2011	Revisions to OFL Contributions for Category 3 Stocks (Dick
	N of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Grass	4010	Based)	(0.222)	0.66	0.51	0.51	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
								Revisions to OFL Contributions for Category 3 Stocks (Dick
_	N of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Kelp	4010	Based)	(0.222)	0.01	0.01	0.01	2011	
	N - C	2 (3/	0.45					Revisions to OFL Contributions for Category 3 Stocks (Dick
Olive	N of 4010	3 (Year Based)	(0.222)	0.32	0.25	0.25	2011	2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Olive	42 -	2 (Year	0.45	0.32	0.23	0.23	2011	Harvest specifications not yet available. Stock defined as CA
Quillback	4010	Based)	(0.143)				2021	(S of 42), apportioned to complex.
			()					OFL projected using a 50% SPR harvest rate MSY proxy
								from the 2021 assessment of quillback rockfish in WA
								(November 2021 version Section 4.2 pg 20, per SSC
0 '111 1	TY7.4	3 (Year	0.45	2.01	2.22	2.22	2021	recommendation as constant OFL = 2.86 mt, Category 3,
Quillback	WA	Based)	(0.222)	2.86	2.23	2.23	2021	P*=0.45, ABC = 2.22 mt).

			P*	2025	2025	2025	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
								OFL projected using a 50% SPR harvest rate from the 2021
0 '111 1	OD	2 (Year	0.45	2.17	2.72	2.72	2021	assessment of quillback rockfish in Oregon (December 2021
Quillback	OR	Based)	(0.143)	3.17	2.72	2.72	2021	version, Table 14 pg 51, per Section 4.1 pg 23).
	NI C	2 (37	0.45					Revisions to OFL Contributions for Category 3 Stocks (Dick
Treefish	N of 4010	3 (Year Based)	0.45 (0.222)	0.22	0.17	0.17	2011	2011). Original NOAA Technical Memo NOAA-TM-
Nearshore Rockfish	S of	Based)	(0.222)	0.22	0.17	0.17	2011	NMFS-SWFSC-460 (Dick and MacCall 2010). Sum of harvest specification contributions of component
South	4010			1,002.00	808.00	808.00		stocks in the complex.
South	4010			1,002.00	808.00	808.00		Gopher and black-and-yellow rockfishes are now combined
								in the 2019 assessment and resulting harvest specifications
								(documented in the gopher specifications). OFL based on a
	S of	2 (Year	0.45					50% SPR harvest rate projected in the 2019 assessment
Black and Yellow	4010	Based)	(0.159)				2019	
		,	(*)					OFL from the 2019 catch-only projection update (Table g pg
								16; Agenda Item H.5 Supp Revised Attachment 17
								September 2019). 90% of the CA OFL is apportioned South
								of 40°10' N lat. (see Appendix D of the 2017 Assessment, pg
	4010 -	2 (Year	0.45					361).S of 40°10' N lat. 2025 OFL = 335.61 * 0.90 = 302.049;
Blue	3427	Based)	(0.174)	302.05	249.49	249.49	2017	2026 OFL = 335.08 * 0.90 = 301.572.
	S of	3 (Year	0.45					Appendix G of the 2017 blue and deacon assessment
Blue	3427	Based)	(0.222)	21.80	16.96	16.96	2017	describes calculation of the OFL proxy (pg 376).
								OFL from the 2019 harvest projection update (Table 1 pg 3;
								Agenda Item H.6 Attachment 2 November 2019). The
								portion of the coastwide stock South of 40`10 N lat. based on
	G C	2 (37	0.45					the proportion of cumulative removals by area during 1916-
D	S of	2 (Year	0.45	170.00	142.04	142.04	2012	2012 (~98.8%).S of 40°10' N lat. 2025 OFL = 181.9 * 0.988
Brown	4010	Based)	(0.205)	179.80	142.94	142.94	2013	= 179.8; 2026 OFL = 182.5 * 0.988 = 180.39.
Calico	S of 4010	3 (Year Based)	(0.222)					
Calico	4010	Based)	(0.222)					OFLs projected from the South Model in the 2015 assessment
								updated with 2019 catch-only projections (Table r pg 34;
	S of	2 (Year	0.45					Agenda Item H.5 Supp Revised Attachment 19 September
China	4010	Based)	(0.190)	17.23	13.96	13.96	2015	2019).
Cimiu	S of	2 (Year	0.45	17.23	13.70	13.70	2013	Harvest specifications not yet available. Stock defined as CA
Copper	4010	Based)	(0.143)				2021	(S of 42), apportioned to complex.
11								Gopher and black-and-yellow rockfishes are now combined
	1							in the 2019 assessment and resulting harvest specifications
	1							(documented in the gopher specifications). OFL based on a
	S of	2 (Year	0.45					50% SPR harvest rate projected in the 2019 assessment
Gopher	4010	Based)	(0.159)	155.00	130.36	130.36	2019	(Table g pg xix).

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
Stock/Complex	Aica	Category	(bullet)	OFL	ABC	ACL	1 cai	Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Grass	4010	Based)	(0.222)	59.63	46.39	46.39	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
								Revisions to OFL Contributions for Category 3 Stocks (Dick
17. 1	S of	3 (Year	0.45	27.66	21.52	21.52	2011	2011). Original NOAA Technical Memo NOAA-TM-
Kelp	4010	Based)	(0.222)	27.66	21.52	21.52	2011	NMFS-SWFSC-460 (Dick and MacCall 2010). Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Olive	4010	Based)	(0.222)	224.64	174.77	174.77	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
31110	S of	2 (Year	0.45	22.1.01	17 1177	17 1177	2011	Harvest specifications not yet available. Stock defined as CA
Quillback	4010	Based)	(0.143)				2021	(S of 42), apportioned to complex.
								Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Treefish	4010	Based)	(0.222)	13.23	10.29	10.29	2011	
Other Fish	CW			286.00	223.00	223.00		Sum of harvest specification contributions of component stocks in the complex.
Other Fish	CW			280.00	223.00	223.00		Revisions to OFL Contributions for Category 3 Stocks (Dick
		3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Kelp Greenling	CA	Based)	(0.222)	118.90	92.50	92.50	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
-								Revisions to OFL Contributions for Category 3 Stocks (Dick
		3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Leopard Shark	CW	Based)	(0.222)	167.10	130.00	130.00	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
Od Flact	CM			5 (00 00	2 425 00	2 425 00		Sum of harvest specification contributions of component
Other Flatfish	CW			5,689.00	3,425.00	3,425.00		stocks in the complex. Based on the average catch during 1994-1998 + a 60%
		3 (Year	0.40					discard rate estimated from the EDCP study (2020 SAFE;
Butter Sole	CW	Based)	(0.398)	4.63	2.79	2.79		Table 2-19 pg 260).
		,	(1 11 1)					Based on the average catch during 1994-1998 + a 60%
		3 (Year	0.40					discard rate estimated from the EDCP study (2020 SAFE;
Curlfin Sole	CW	Based)	(0.398)	8.24	4.96	4.96		Table 2-19 pg 260).
		3 (Year	0.40					
Flathead Sole	CW	Based)	(0.398)	35.00	21.07	21.07		Max. catch = 35 mt in 2005 (2020 SAFE; Table 2-19 pg 260).
		3 (Year	0.40					Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-
Pacific Sanddab	CW	Based)	(0.398)	4,801.00	2,890.20	2,890.20	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
1 dellie Sulidado	211	2 (Year	0.40	1,001.00	2,070.20	2,070.20	2011	That is still be low (Blok and Huccuit 2010).
Rex Sole	CW	Based)	(0.370)				2013	Harvest specifications not yet available.
								Revisions to OFL Contributions for Category 3 Stocks (Dick
		3 (Year	0.40					2011). Original NOAA Technical Memo NOAA-TM-
Rock Sole	CW	Based)	(0.398)	66.70	40.15	40.15	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
•								Revisions to OFL Contributions for Category 3 Stocks (Dick
0 10 1	CIVI	3 (Year	0.40	552.00	165.45	465.45	2011	2011). Original NOAA Technical Memo NOAA-TM-
Sand Sole	CW	Based)	(0.398)	773.20	465.47	465.47	2011	
Shelf Rockfish North	N of 4010			1,597.00	1,266.00	1,266.00		Sum of harvest specification contributions of component stocks in the complex.
				,		,		Revisions to OFL Contributions for Category 3 Stocks (Dick
	N of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Bocaccio	4010	Based)	(0.222)	284.00	220.95	220.95	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
	N of	3 (Year	0.45					
Bronzespotted	4010	Based)	(0.222)					
CI I	N of	3 (Year	0.45					
Chameleon	4010	Based)	(0.222)					OFF 6 4 2010 1 1 1 64 2015
								OFL from the 2019 projection update of the 2015 assessment (Table 7 pg 4; Agenda Item H.8 Supp Attachment 2 September 2019). OFLs are apportioned to the North (7%)
Chilipepper	N of 4010	1 (Year Based)	0.45 (0.100)	173.25	155.93	155.93	2015	and South (93%) of 40°10' N lat. based on average historical landings.N of 40°10' N lat. 2025 OFL = 2475 * 0.07 = 173.25; 2026 OFL = 2434 * 0.07 = 170.38.
Cowcod	N of 4010	3 (Year Based)	0.45 (0.222)	0.57	0.44	0.44	2019	OFL is based on the 2019 DB-SRA estimate in Appendix B of the 2019 cowcod assessment (Table F2 pg 179; Percentile 50% (Median)). OFLs are apportioned to the north of 40°10' N lat. (3%) and 40°10' - 34°27' N lat. (97%) based on cumulative historical catch (Table F3 pg 179; 1916-2018).
Flag	N of 4010	3 (Year Based)	0.45 (0.222)	0.10	0.08	0.08	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-
Freckled	N of 4010	3 (Year Based)	0.45 (0.222)					
Greenblotched	N of 4010	3 (Year Based)	0.45 (0.222)	1.30	1.01	1.01	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	42 -	2 (Year	0.45					
Greenspotted	4010	Based)	(0.220)				2011	Harvest specifications not yet available.
Greenspotted	WA - OR	3 (Year Based)	0.45 (0.222)	6.10	4.75	4.75	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	N of	3 (Year	0.45					OFL based on the MSY associated with the FMSY proxy in the 2009 assessment (Table d pg vii; Yield with SPR50% at SBSPR). The portion of the coastwide stock North (84.5%) and South (15.5%) of 40°10' N lat. is based on the mean of the 2003-2008 swept area biomass estimates from the NMFS
Greenstriped	4010	Based)	(0.222)	623.61	485.17	485.17	2009	trawl survey.

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
Stock/Complex	N of	3 (Year	0.45	OFE	ПВС	ACL	1 cai	110005
Halfbanded	4010	Based)	(0.222)					
	N of	3 (Year	0.45					
Harlequin	4010	Based)	(0.222)					
1	N of	3 (Year	0.45					
Honeycomb	4010	Based)	(0.222)					
,	N of	3 (Year	0.45					
Mexican	4010	Based)	(0.222)					
Pink	N of 4010	3 (Year Based)	0.45 (0.222)	0.004	0.003	0.003	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	N of	3 (Year	0.45					
Pinkrose	4010	Based)	(0.222)					
	N of	3 (Year	0.45					
Puget Sound	4010	Based)	(0.222)					
	N of	3 (Year	0.45					
Pygmy	4010	Based)	(0.222)					
Redstripe	N of 4010	3 (Year Based)	0.45 (0.222)	269.90	209.98	209.98	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Rosethorn	N of 4010	3 (Year Based)	0.45 (0.222)	12.90	10.04	10.04	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Rosy	N of 4010	3 (Year Based)	0.45 (0.222)	3.00	2.33	2.33	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Silvergray	N of 4010	3 (Year Based)	0.45 (0.222)	159.40	124.01	124.01	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Speckled	N of 4010	3 (Year Based)	0.45 (0.222)	0.20	0.16	0.16	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Squarespot	42 - 4010	2 (Year Based)	0.45 (0.143)				2021	An OFL is not provided in this geographic area, per Section 4.3 (pg 21) of the 2021 squarespot rockfish data-moderate assessment in California, as after 2000 it is assumed that 100% of removals are from South of 40°10' N lat. and thus no apportionment of the overall OFL was made to this area.
Starry	N of 4010	3 (Year Based)	0.45 (0.222)	0.004	0.003	0.003	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
Stock/ Complex				OIL	TIDE	Hel	1 Cui	Revisions to OFL Contributions for Category 3 Stocks (Dick
G4 ' 4 'I	N of	3 (Year	0.45	40.40	21.42	21.42	2011	2011). Original NOAA Technical Memo NOAA-TM-
Stripetail	4010	Based)	(0.222)	40.40	31.43	31.43	2011	NMFS-SWFSC-460 (Dick and MacCall 2010). Revisions to OFL Contributions for Category 3 Stocks (Dick
	N of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Swordspine	4010	Based)	(0.222)	0.0001	0.0001	0.0001	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
	27.0	2 (77	0.45					Revisions to OFL Contributions for Category 3 Stocks (Dick
Tiger	N of 4010	3 (Year Based)	0.45 (0.222)	1.00	0.78	0.78	2011	2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
1 igei	4010	Daseu)	(0.222)	1.00	0.78	0.78	2011	Harvest specifications not yet available. Stock defined as OR
	N of							and WA (N of 42). SSC will need to combine assessments to
Vermilion	42							develop harvest specifications and harvest control rule.
T7 '1'	42 -						2021	Harvest specifications not yet available. Stock defined as CA
Vermilion	4010 S of						2021	(S of 42), apportioned to complex. Sum of harvest specification contributions of component
Shelf Rockfish South	4010			1,829.00	1,460.00	1,460.00		stocks in the complex.
				-,0-,100	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Bronzespotted	4010	Based)	(0.222)	3.60	2.80	2.80	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
Chameleon	S of 4010	3 (Year Based)	0.45 (0.222)					
Chameleon	4010	Dascu)	(0.222)					Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Flag	4010	Based)	(0.222)	23.40	18.21	18.21	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
F 11 1	S of	3 (Year	0.45					
Freckled	4010	Based)	(0.222)					Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Greenblotched	4010	Based)	(0.222)	23.10	17.97	17.97	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
	4010 -	2 (Year	0.45					
Greenspotted	3427	Based)	(0.220)				2011	Harvest specifications not yet available.
Greenspotted	S of 3427	2 (Year Based)	0.45 (0.220)				2011	Harvest specifications not yet available.
Greenspoucu	3721	Dascuj	(0.220)				2011	OFL based on the MSY associated with the FMSY proxy in
								the 2009 assessment (Table d pg vii; Yield with SPR50% at
								SBSPR). The portion of the coastwide stock North (84.5%)
	S of	2 (V	0.45					and South (15.5%) of 40°10' N lat. is based on the mean of
Greenstriped	4010	3 (Year Based)	(0.222)	114.39	89.00	89.00	2009	the 2003-2008 swept area biomass estimates from the NMFS trawl survey.
Steenstriped	S of	3 (Year	0.45	111.37	07.00	07.00	2007	auni sairej.
Halfbanded	4010	Based)	(0.222)					

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
	S of	3 (Year	0.45		_			
Harlequin	4010	Based)	(0.222)					
Honeycomb	S of 4010	3 (Year Based)	0.45 (0.222)	9.90	7.70	7.70	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Mexican	S of 4010	3 (Year Based)	0.45 (0.222)	5.10	3.97	3.97	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Pink	S of 4010	3 (Year Based)	0.45 (0.222)	2.50	1.95	1.95	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Pinkrose	S of 4010	3 (Year Based)	0.45 (0.222)					
Pygmy	S of 4010	3 (Year Based)	0.45 (0.222)					
Redstripe	S of 4010	3 (Year Based)	0.45 (0.222)	0.50	0.39	0.39	2011	1
Rosethorn	S of 4010	3 (Year Based)	0.45 (0.222)	2.10	1.63	1.63	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Rosy	S of 4010	3 (Year Based)	0.45 (0.222)	44.50	34.62	34.62	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Silvergray	S of 4010	3 (Year Based)	0.45 (0.222)	0.50	0.39	0.39	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Speckled	S of 4010	3 (Year Based)	0.45 (0.222)	39.40	30.65	30.65	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	S of	2 (Year	0.45	(50	5.64	5.20	2021	OFL projected using a 50% SPR harvest rate from the 2021 squarespot rockfish data-moderate assessment in CA (Table 17 pg 47 – table incorrectly labeled ACL as ABC and buffer calculations were corrected in final projection values Agenda
Squarespot	4010 S of	Based) 3 (Year	0.45	6.58	5.64	5.39	2021	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-
Starry	4010	Based)	(0.222)	62.60	48.70	48.70	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick
Stripetail	S of 4010	3 (Year Based)	0.45 (0.222)	23.60	18.36	18.36	2011	2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
Swordspine	S of 4010	3 (Year Based)	0.45 (0.222)	14.20	11.05	11.05	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Tiger	S of 4010	3 (Year Based)	0.45 (0.222)	0.04	0.03	0.03	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Vermilion	S of 4010						2021	Harvest specifications not yet available. Stock defined as CA (S of 42), apportioned to complex.
Yellowtail Rockfish	S of 4010	3 (Year Based)	0.45 (0.222)	1,064.40	828.10	828.10	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Slope Rockfish North	N of 4010			1,779.00	1,488.00	1,488.00		Sum of harvest specification contributions of component stocks in the complex.
	N of	1 (Year	0.45					OFL is based on the 2013 assessment, with a category 1 sigma, P* = 0.45, ACL=ABC in projections provided in 2023 (Table 2 pg 3; Agenda Item G.6 Attachment 2 September 2023). The portion of the coastwide stock north (19%) and south (81%) of 40°10' N lat. is based on average survey
Aurora	4010	Based)	(0.108)	17.29	15.42	15.42	2013	biomass. Revisions to OFL Contributions for Category 3 Stocks (Dick
Bank	N of 4010	3 (Year Based)	0.45 (0.222)	17.20	13.38	13.38	2011	2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Blackgill Rockfish	N of 4010	3 (Year Based)	0.45 (0.222)	4.70	3.66	3.66	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Redbanded	N of 4010	3 (Year Based)	0.45 (0.222)	45.30	35.24	35.24	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-
Rougheye/Blackspotted	N of 4010	2 (Year Based)	0.45 (0.205)	233.24	185.43	185.43	2013	OFL based on the 2019 catch-only update of the 2013 assessment (Table f pg xi; Agenda Item H.5 Supp Revised Attachment 24 Sept 2019). The coastwide OFLs are apportioned north (98%) and south (2%) based on average landings during 1985-2012. N of 4010 2025 OFL = 238 * 0.98 = 233.24; 2026 OFL = 237 * 0.98 = 232.26.
Sharpchin	N of 4010	2 (Year Based)	0.45 (0.205)	280.00	222.60	222.60	2013	OFL from the 2019 projection update of the 2013 assessment (Table 15 pg 8; Agenda Item H.8 Supp Attachment 2 September 2019). OFLs are apportioned to the North (80%) and South (20%) of 40°10' N lat. based on average swept area biomass estimates from the triennial survey. N of 40°10' N lat. 2025 OFL = 350 * 0.8 = 280; 2026 OFL =

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
Shortraker	N of 4010	3 (Year Based)	0.45 (0.222)	18.70	14.55	14.55	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Splitnose	N of 4010	1 (Year Based)	0.45 (0.044)	970.00	848.00	848.00	2009	Projections based on the 2009 assessment using the sigmas for 2020 and beyond (Table 3 pg 3; Agenda Item G.6
Yellowmouth	N of 4010	3 (Year Based)	0.45 (0.222)	192.40	149.69	149.69	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Slope Rockfish South	S of 4010			866.00	693.00	693.00		Sum of harvest specification contributions of component stocks in the complex.
Aurora	S of 4010	1 (Year Based)	0.45 (0.108)	73.71	65.75	65.75	2013	OFL is based on the 2013 assessment, with a category 1 sigma, P* = 0.45, ACL=ABC in projections provided in 2023 (Table 2 pg 3; Agenda Item G.6 Attachment 2 September 2023). The portion of the coastwide stock north (19%) and south (81%) of 40°10' N lat. is based on average survey biomass.
Bank	S of 4010	3 (Year Based)	0.45 (0.222)	503.20	391.49	391.49	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Blackgill Rockfish	S of 4010 S of	2 (Year Based) 3 (Year	0.45 (0.174) 0.45	203.00	167.68	167.68	2017	Values from a 2019 catch-only update/projection from the 2017 assessment update of blackgill rockfish in the Conception and Monterey INPFC areas (Table f pg x; Agenda Item H.5 Attachment 16 September 2019).
Pacific Ocean Perch Redbanded	4010 S of 4010	Based) 3 (Year Based)	0.45 (0.222)	10.40	8.09	8.09	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Rougheye/Blackspotted	S of 4010	2 (Year Based)	0.45 (0.205)	4.76	3.78	3.78	2011	OFL based on the 2019 catch-only update of the 2013 assessment (Table f pg xi; Agenda Item H.5 Supp Revised Attachment 24 Sept 2019). The coastwide OFLs are apportioned north (98%) and south (2%) based on average landings during 1985-2012. S of 4010 2025 OFL = 238 * 0.02 = 4.76; 2026 OFL = 237 *

Stock/Complex	Area	Category	P* (buffer)	2025 OFL	2025 ABC	2025 ACL	Assess Year	Notes
								OFL from the 2019 projection update of the 2013 assessment
								(Table 15 pg 8; Agenda Item H.8 Supp Attachment 2
								September 2019). OFLs are apportioned to the North (80%)
								and South (20%) of 40°10' N lat. based on average swept
								area biomass estimates from the triennial survey.
	S of	2 (Year	0.45					S of 40°10' N lat. 2025 OFL = 350 * 0.2 = 70; 2026 OFL =
Sharpchin	4010	Based)	(0.205)	70.00	55.65	55.65	2013	348 * 0.2 = 69.6.
								Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Shortraker	4010	Based)	(0.222)	0.10	0.08	0.08	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).
								Revisions to OFL Contributions for Category 3 Stocks (Dick
	S of	3 (Year	0.45					2011). Original NOAA Technical Memo NOAA-TM-
Yellowmouth	4010	Based)	(0.222)	0.80	0.62	0.62	2011	NMFS-SWFSC-460 (Dick and MacCall 2010).

Table 2. 2026 harvest specifications (mt) and stock category designations for west coast groundfish stocks and stock complexes under default harvest control rules. Specifications not yet available in yellow highlight. Assessment year represents the most recent assessment adopted by the Council; note many yellow highlights are those to be adopted based on the 2023 assessment cycle and for those species where new stock definitions delineated areas differently than in the past. Blue highlight = defined groundfish stocks (Amendment 31).

			P*	2026	2026	2026	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
P. C.		1 (Year	0.40					
Yelloweye Rockfish	CW	Based)	(0.183)				2017	Harvest specifications not yet available.
-								OFL based on the 2021 catch-only update of the 2017
		2 (Year	0.40					update assessment (Table 1; Correa et al. 2021;
Arrowtooth Flounder	CW	Based)	(0.333)	13,833.00	9,227.00	9,227.00	2017	Agenda Item C.6 Attachment 9 Sept 2021).
		2 (Year	0.45					OFL projected using a 50% SPR harvest rate in the
Big Skate	CW	Based)	(0.167)	1,426.00	1,188.00	1,188.00	2019	2019 big skate assessment (Table 15 pg 67).
		1 (Year	0.45					
Black Rockfish	WA	Based)	(0.104)				2015	Harvest specifications not yet available.
		1 (Year	0.45					
Black Rockfish	CA	Based)	(0.104)				2015	Harvest specifications not yet available.
								OFL projected using a 50% SPR from the 2019
								updated harvest specification projections based on
								new sigmas with a 7.4% reduction to subtract the
								portion of the assessed stock north of 40°10' N. lat.
	S of	1 (Year	0.45					(Table 5 pg 3; Agenda Item H.8 Supp Attachment 2
Bocaccio	4010	Based)	(0.096)	1,846.00	1,668.00	1,668.00	2017	
- 4		1 (Year	0.45					OFL projected using a 45% SPR from the 2019
Cabezon	CA	Based)	(0.087)	170.00	155.00	155.00	2019	assessment (Table ES18 pg 41; Table ES19 pg 42).
- 4	S of	1 (Year	0.45					OFL projected using a 45% SPR from the 2019
Cabezon	3427	Based)	(0.087)	20.20	18.44		2019	assessment (Table ES18 pg 41).
~ .	3427 -	1 (Year	0.45		12.5.50		• • • •	OFL projected using a 45% SPR from the 2019
Cabezon	42	Based)	(0.087)	149.70	136.68		2019	assessment (Table ES19 pg 42).
Cabezon/Kelp	****			22.00	15.00	15.00		Sum of harvest specification contributions of
Greenling	WA	2.77	1	22.00	17.00	17.00		component stocks in the complex.
G 1	****	3 (Year	0.45	1.1.00	11.50	11.50	2010	OFL based on a DB-SRA assessment in the 2019
Cabezon	WA	Based)	(0.222)	14.90	11.59	11.59	2019	assessment (Table 48 pg 190, unweighted-50%).
								OFL based on a 2015 DB-SRA estimate using a low
								vulnerability prior (Table 11 pg 12, Delta option 4;
		2 (37	0.45					Agenda Item I.4 Attachment 4 November 2015). Low
W 1 C 1'	337 A	3 (Year	0.45	7.10	5.50	5.53	2015	vulnerability prior from data-moderate assessment
Kelp Greenling	WA	Based)	(0.222)	7.10	5.52	5.52	2015	document (Figure 54 in Cope et al. 2015).
Cabezon/Kelp	OD			104.00	174.00	174.00		Sum of harvest specification contributions of
Greenling	OR	1 (V	0.45	194.00	174.00	174.00		component stocks in the complex.
C-1	OD	1 (Year	0.45	52.00	47.40	47.49	2010	OFL projected using a 45% SPR from the 2019
Cabezon	OR	Based)	(0.087)	52.00	47.48	47.48	2019	assessment (Table ES20 pg 43).

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
Kelp Greenling	OR	1 (Year Based)	0.45 (0.104)	141.63	126.90	126.90	2015	OFL projected in the 2021 catch-only update of the 2015 assessment (Table 5, Agenda Item C.8. Attachment 2 September 2021).
California Scorpionfish	CW	(Year Based)	0.45 (0.110)	267.00	238.00	238.00	2017	OFL from the 2019 catch-only update of the 2017 assessment (Table 6 pg 4; Agenda Item H.8 Supp Attachment 2 Sept 2019).
Canary Rockfish	CW	1 (Year Based)	0.45 (0.104)				2015	Harvest specifications not yet available.
Chilipepper	S of 4010	1 (Year Based)	0.45 (0.104)	2,264.00	2,028.00	2,028.00	2015	OFL from the 2019 projection update of the 2015 assessment (Table 7 pg 4; Agenda Item H.8 Supp Attachment 2 Sept 2019). OFLs are apportioned to the North (7%) and South (93%) of 40°10' N lat. based on average historical landings. S of 40°10' N lat. 2025 OFL = 2475 * 0.93 = 2301.75; 2026 OFL = 2434 * 0.93 = 2263.62.
Cowcod	S of 4010		(*******)	111.00	75.00	75.00	2019	Harvest specifications are the sum of assessed area projections (South of Pt Conception 34°27' N. lat.) and DBSRA estimates (40°10' to 34°27' N. lat.).
Cowcod	S of 3427	2 (Year Based)	0.40 (0.307)	92.42	64.05	64.05	2019	OFL is based on a 50% SPR harvest rate projected in the 2019 assessment, with a time varying category 2 sigma, P* = 0.4. in 2019 projections (Table 6 pg 5; error in caption as correction is South of 34°27' N. lat.; Agenda Item H.6 Attachment 2 November 2019).
Cowcod	4010 - 3427	3 (Year Based)	0.40 (0.398)	18.62	11.21	11.21	2019	OFL is based on the 2019 DB-SRA estimate in Appendix B of the 2019 cowcod assessment (Table F2 pg 179; Percentile 50% (Median)). OFLs are apportioned to the north of 40°10' N lat. (3%) and 40°10' - 34°27' N lat. (97%) based on cumulative historical catch (Table F3 pg 179; 1916-2018).
Darkblotched Rockfish	CW	1 (Year Based)	0.45 (0.096)	810.00	732.00	732.00	2017	OFL projected using a 50% SPR in the 2021 catch- only projection update (Table 1; Lee 2021; Agenda Item C.6 Attachment 12 Sept 2021).
Dover Sole	CW	1 (Year Based)	0.45 (0.078)	44,769.00	41,277.00	41,277.00	2021	OFL projected using a 30% SPR harvest rate in the 2021 full assessment (Table 28 pg 97).
English Sole	CW	2 (Year Based)	0.45 (0.212)	11,192.00	8,819.00	8,819.00	2013	OFL is based on a 30% SPR harvest rate in the 2013 data-moderate assessment, with ACL = ABC (P* = 0.45) in 2019 projections (Table 3 pg 4; Agenda Item
Lingcod	N of 4010	2 (Year Based)	0.45 (0.151)	4,163.00	3,534.00	3,534.00	2021	OFLs projected using a 45% SPR harvest rate in the 2021 full assessment of lingcod North of 40°10' N lat. (Table vii pg xvi).

			P*	2026	2026	2026	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
								OFLs projected using a 45% SPR harvest rate in the
	S of	2 (Year	0.45					2021 full assessment of lingcod South of 40°10' N lat.
Lingcod	4010	Based)	(0.151)	937.00	795.00	795.00	2021	(Table vii pg xvi).
		2 (Year	0.45					OFLs projected using a 45% SPR harvest rate in the
Longnose Skate	CW	Based)	(0.167)	1,895.00	1,579.00	1,579.00	2019	2019 assessment (Table ES-6 pg 20). ACL = ABC.
								Coastwide OFL projected using a 50% SPR harvest
								rate in the 2019 catch-only projection update (Table
								g pg 13). The coastwide ABC ($P^* = 0.4$) is
		2 (V	0.40					apportioned N (76%) and S (24%) of 34°27' N lat. to
Longspine Thornyhead	CW	2 (Year Based)	(0.382)	4,166.00	2,575.00		2013	determine ACLs based on the 2003-2012 average swept area biomass from the NMFS trawl survey.
Longspine Thornyhead	CW	Dased)	(0.382)	4,100.00	2,373.00		2013	Coastwide OFL projected using a 50% SPR harvest
								rate in the 2019 catch-only projection update (Table
								g pg 13). The coastwide ABC ($P^* = 0.4$) is
								apportioned N (76%) and S (24%) of 34°27' N lat. to
								determine ACLs based on the 2003-2012 average
								swept area biomass from the NMFS trawl survey. S
Longspine	S of	2 (Year	0.40					of 34°27' N lat. 2025 ACL = ABC 2,697.92 * 0.24 =
Thornyhead	3427	Based)	(0.382)			618.00	2013	·
								Coastwide OFL projected using a 50% SPR harvest
								rate in the 2019 catch-only projection update (Table
								g pg 13). The coastwide ABC ($P^* = 0.4$) is
								apportioned N (76%) and S (24%) of 34°27' N lat. to
								determine ACLs based on the 2003-2012 average
								swept area biomass from the NMFS trawl survey. N
								of 34°27' N lat. 2025 ACL = ABC 2,697.92 * 0.76 =
Longspine	N of	2 (Year	0.40					2050.42; 2026 ACL = ABC 2,574.60 * 0.76 =
Thornyhead	3427	Based)	(0.382)			1,957.00	2013	
								OFL projected using a 50% SPR harvest rate in the
								2019 Pacific Ocean Perch Updated Harvest
	NI C	2.07	0.45					Specification Projections (Table 7, Agenda Item H.8
D:C- O D 1	N of	2 (Year	0.45	2 027 00	2 220 00	2 220 00	2017	Supplemental Attachment 2 September 2019). ACL
Pacific Ocean Perch	4010	Based)	(0.182) 0.45	3,937.00	3,220.00	3,220.00	2017	= ABC (P* $=$ 0.45).
Petrale Sole	CW	1 (Year Based)	(0.087)				2010	Harvest specifications not yet available.
1 Chair Sole	CW	1 (Year	0.45				2019	Trai vest specifications not yet available.
Sablefish	CW	Based)	(0.078)				2021	Harvest specifications not yet available.
Subterisit	S of	1 (Year	0.45				2021	That vest specifications not yet available.
Sablefish	36	Based)	(0.078)				2021	Harvest specifications not yet available.
Daulelisii	N of	1 (Year	0.45				2021	Trai vest specifications not yet available.
Sablefish	36	Based)	(0.078)				2021	Harvest specifications not yet available.
Baulchsii	30	Dascu	(0.070)				2021	Trai vest specifications not yet available.

			P*	2026	2026	2026	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
Stock Complex	11100	2 (Year	0.40	312	1120	1101	1001	110000
Shortspine Thornyhead	CW	Based)	(0.382)				2013	Harvest specifications not yet available.
Shortspine	S of	2 (Year	0.40					, i
Thornyhead	3427	Based)	(0.382)				2013	Harvest specifications not yet available.
Shortspine	N of	2 (Year	0.40					
Thornyhead	3427	Based)	(0.382)				2013	Harvest specifications not yet available.
Spiny Dogfish	CW	2 (Year Based)	0.40 (0.281)	1,833.00	1,318.00	1,318.00	2021	OFL is based on a 50% SPR harvest rate projected in the 2021 assessment, with a category 2 sigma, P* = 0.4, ACL=ABC in 2019 projections (Table 4 pg 5; Agenda Item E.3 Supp Revised Attachment 4 November 2021).
Splitnose	S of 4010	1 (Year Based)	0.45 (0.044)	1,686.00	1,469.00	1,469.00	2009	Projections based on the 2009 assessment using the sigmas for 2020 and beyond (Table 2 pg 3; Agenda Item G.2 Attachment 2 September 2023).
•		1 (Year	0.45					
Widow Rockfish	CW	Based)	(0.087)				2019	Harvest specifications not yet available.
	N of	1 (Year	0.45					
Yellowtail Rockfish	4010	Based)	(0.096)				2017	7
Pacific Cod	CW	3 (Year Based)	0.40 (0.398)	3,200.00	1,926.00	1,600.00		OFL is based on the highest historical catch (in 1985). ACL = 50% of the OFL.
Starry Flounder	CW	3 (Year Based)	0.40 (0.398)	652.00	392.00	392.00	2017	OFL based on the 2017 DB-SRA assessment of starry flounder (Agenda Item F.6.a Supp SSC Rpt1
Blue/Deacon/Black Rockfish	OR		0.45 (0.044)	95.00	78.00	78.00		Sum of harvest specification contributions of component stocks in the complex.
Black Rockfish	OR	2 (Year Based)	0.45 (0.197)	23.00	70.00	70.00	2015	Harvest specifications not yet available.
Blue	OR	2 (Year Based)	0.45 (0.182)	94.83	77.57	77.57	2017	OFL projected using a 50% SPR from the 2021 updated harvest specification projections for blue and deacon rockfishes (Table 3; Agenda Item C.8 Attachment 2 September 2021). HG = ABC/ACL for managing OR fisheries.
Nearshore Rockfish	N of							Sum of harvest specification contributions of
North	4010	1	10.15	99.00	80.00	80.00		component stocks in the complex.
D1 1 177 11	N of	3 (Year	0.45					
Black and Yellow	4010	Based)	(0.222)					

G: 1/G			P*	2026	2026	2026	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
								OFL from the 2019 catch-only projection update
								(Table g pg 16; Agenda Item H.5 Supp Revised Attachment 17 September 2019). 10% of the CA
								OFL is apportioned North of 40°10' N lat. (see
								Appendix D of the 2017 Assessment, pg 361).N of
	42 -	2 (Year	0.45					$40^{\circ}10^{\circ}$ N lat. 2025 OFL = 335.61 * 0.10 = 33.561;
Blue	4010	Based)	(0.182)	33.51	27.41	27.41	2017	2026 OFL = 335.08 * 0.10 = 33.508.
								Inferred Washington OFL provided in Appendix F
		3 (Year	0.45					(Table F2 pg 373) of the 2017 Blue and Deacon
Blue	WA	Based)	(0.222)	7.00	5.45	5.45	2017	Rockfishes assessment.
								OFL from the 2019 harvest projection update (Table
								1 pg 3; Agenda Item H.6 Attachment 2 November
								2019). The portion of the coastwide stock North of
								40'10 N lat. based on the proportion of cumulative
	N of	2 (Year	0.45					removals by area during 1916-2012 (~1.15%).N of 40°10' N lat. 2025 OFL = 181.9 * 0.0115 = 2.1; 2026
Brown	4010	Based)	(0.212)	2.11	1.66	1.66	2013	OFL = 182.5 * 0.0115 = 2.11.
DIOWII	N of	3 (Year	0.45	2.11	1.00	1.00	2013	O1L 102.5 0.0115 2.11.
Calico	4010	Based)	(0.222)					
								OFLs projected from the North Model in the 2015
								assessment updated with 2019 catch-only projections
		2 (Year	0.45					(Table r pg 34; Agenda Item H.5 Supp Revised
China	WA	Based)	(0.197)	9.19	7.38	7.38	2015	Attachment 19 September 2019).
								OFLs projected from the Central Model in the 2015
	4010	2 (7)	0.45					assessment updated with 2019 catch-only projections
C1:	4010 -	2 (Year	0.45	10.50	15.70	15.70	2015	(Table r pg 34; Agenda Item H.5 Supp Revised
China	4616	Based)	(0.197)	19.58	15.72	15.72	2015	
								Harvest specifications not yet available. Stock defined as OR and WA (N of 42). SSC will need to
	N of							combine assessments to develop harvest
Copper	42						2021	specifications and harvest control rule.
Соррег	42 -	2 (Year	0.45				2021	Harvest specifications not yet available. Stock
Copper	4010	Based)	(0.151)				2021	defined as CA (S of 42), apportioned to complex.
								Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
G 1	N of	3 (Year	0.45				2011	Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Gopher	4010	Based)	(0.222)				2011	MacCall 2010).
								Revisions to OFL Contributions for Category 3
	N of	3 (Year	0.45					Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Grass	4010	Based)	(0.222)	0.66	0.51	0.51	2011	
Orass	7010	Dasca	1 (0.222)	1 0.00	0.51	1 0.51	2011	1v1a0Ca11 2010).

Stock/Complex	A ====	Catagomi	P*	2026 OFL	2026 ABC	2026 ACL	Assess	Notes
Stock/Complex Kelp	N of 4010	3 (Year Based)	0.45 (0.222)	0.01	0.01	0.01	Year 2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Olive	N of 4010	3 (Year Based)	0.45 (0.222)	0.32	0.25	0.25	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Quillback	42 - 4010	2 (Year Based)	0.45 (0.151)				2021	Harvest specifications not yet available. Stock defined as CA (S of 42), apportioned to complex.
Quillback	WA	3 (Year Based)	0.45 (0.222)	2.86	2.23	2.23	2021	OFL projected using a 50% SPR harvest rate MSY proxy from the 2021 assessment of quillback rockfish in WA (November 2021 version Section 4.2 pg 20, per SSC recommendation as constant OFL = 2.86 mt, Category 3, P*=0.45, ABC = 2.22 mt).
Quillback	OR	2 (Year Based)	0.45 (0.151)	3.18	2.70	2.70	2021	OFL projected using a 50% SPR harvest rate from the 2021 assessment of quillback rockfish in Oregon (December 2021 version, Table 14 pg 51, per Section 4.1 pg 23).
Treefish	N of 4010	3 (Year Based)	0.45 (0.222)	0.22	0.17	0.17	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Nearshore Rockfish South	S of 4010	Buscuj	(0.222)	1,006.00	806.00	806.00	2011	Sum of harvest specification contributions of component stocks in the complex.
Black and Yellow	S of 4010	2 (Year Based)	0.45 (0.167)	-,			2019	Gopher and black-and-yellow rockfishes are now combined in the 2019 assessment and resulting harvest specifications (documented in the gopher specifications). OFL based on a 50% SPR harvest rate projected in the 2019 assessment (Table g pg xix).
Blue	4010 - 3427	2 (Year Based)	0.45 (0.182)	301.57	246.69	246.69	2017	OFL from the 2019 catch-only projection update (Table g pg 16; Agenda Item H.5 Supp Revised Attachment 17 September 2019). 90% of the CA OFL is apportioned South of 40°10' N lat. (see Appendix D of the 2017 Assessment, pg 361).S of 40°10' N lat. 2025 OFL = 335.61 * 0.90 = 302.049; 2026 OFL = 335.08 * 0.90 = 301.572.
Blue	S of 3427	3 (Year Based)	0.45 (0.222)	21.80	16.96	16.96	2017	Appendix G of the 2017 blue and deacon assessment describes calculation of the OFL proxy (pg 376).

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
Brown	S of 4010	2 (Year Based)	0.45 (0.212)	180.39	142.15	142.15	2013	OFL from the 2019 harvest projection update (Table 1 pg 3; Agenda Item H.6 Attachment 2 November 2019). The portion of the coastwide stock South of 40'10 N lat. based on the proportion of cumulative removals by area during 1916-2012 (~98.8%).S of 40°10'N lat. 2025 OFL = 181.9 * 0.988 = 179.8; 2026 OFL = 182.5 * 0.988 = 180.39.
Calico	S of 4010	3 (Year Based)	0.45 (0.222)					
China	S of 4010	2 (Year Based)	0.45 (0.197)	17.61	14.14	14.14	2015	OFLs projected from the South Model in the 2015 assessment updated with 2019 catch-only projections (Table r pg 34; Agenda Item H.5 Supp Revised Attachment 19 September 2019).
Cannan	S of 4010	2 (Year Based)	0.45 (0.151)				2021	Harvest specifications not yet available. Stock
Copper Gopher	S of 4010	2 (Year Based)	0.45 (0.167)	158.00	131.61	131.61	2021	defined as CA (S of 42), apportioned to complex. Gopher and black-and-yellow rockfishes are now combined in the 2019 assessment and resulting harvest specifications (documented in the gopher specifications). OFL based on a 50% SPR harvest rate projected in the 2019 assessment (Table g pg xix).
Grass	S of 4010	3 (Year Based)	0.45 (0.222)	59.63	46.39	46.39	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Kelp	S of 4010	3 (Year Based)	0.45 (0.222)	27.66	21.52	21.52	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Olive	S of 4010	3 (Year Based)	0.45 (0.222)	224.64	174.77	174.77	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Quillback	S of 4010	2 (Year Based)	0.45 (0.151)				2021	Harvest specifications not yet available. Stock defined as CA (S of 42), apportioned to complex.
Treefish	S of 4010	3 (Year Based)	0.45 (0.222)	13.23	10.29	10.29	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Other Fish	CW			286.00	223.00	223.00		Sum of harvest specification contributions of component stocks in the complex.

St. LIG. 1	_	C	P*	2026 OFF	2026	2026	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes
								Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical
		3 (Year	0.45					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Kelp Greenling	CA	Based)	(0.222)	118.90	92.50	92.50	2011	MacCall 2010).
			(**==)		7 - 10 0	7 - 10 0		Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
		3 (Year	0.45					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Leopard Shark	CW	Based)	(0.222)	167.10	130.00	130.00	2011	
	CIVI			7 (00 00	2 42 5 00	2 42 5 00		Sum of harvest specification contributions of
Other Flatfish	CW			5,689.00	3,425.00	3,425.00		component stocks in the complex.
		3 (Year	0.40					Based on the average catch during 1994-1998 + a 60% discard rate estimated from the EDCP study
Butter Sole	CW	Based)	(0.398)	4.63	2.79	2.79		(2020 SAFE; Table 2-19 pg 260).
Dutter Sole	- C VV	Dased)	(0.376)	7.03	2.17	2.17		Based on the average catch during 1994-1998 + a
		3 (Year	0.40					60% discard rate estimated from the EDCP study
Curlfin Sole	CW	Based)	(0.398)	8.24	4.96	4.96		(2020 SAFE; Table 2-19 pg 260).
		3 (Year	0.40					Max. catch = 35 mt in 2005 (2020 SAFE; Table 2-19
Flathead Sole	CW	Based)	(0.398)	35.00	21.07	21.07		pg 260).
								Revisions to OFL Contributions for Category 3
		2 (37	0.40					Stocks (Dick 2011). Original NOAA Technical
Pacific Sanddab	CW	3 (Year Based)	0.40 (0.398)	4,801.00	2,890.20	2,890.20	2011	Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Tacific Sanddao	CW	2 (Year	0.40	4,001.00	2,070.20	2,070.20	2011	Maccan 2010).
Rex Sole	CW	Based)	(0.382)				2013	Harvest specifications not yet available.
								Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
		3 (Year	0.40					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Rock Sole	CW	Based)	(0.398)	66.70	40.15	40.15	2011	MacCall 2010).
								Revisions to OFL Contributions for Category 3
		3 (Year	0.40					Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Sand Sole	CW	Based)	(0.398)	773.20	465.47	465.47	2011	MacCall 2010).
Pacific Whiting	CW	Buseu)	(0.550)	773.20	102.17	103.17	2021	1740 Cuit 2010).
racine winning	N of						2021	Sum of harvest specification contributions of
Shelf Rockfish North	4010			1,593.00	1,263.00	1,263.00		component stocks in the complex.
	1			-,=,=,=	-,= 52.00	-,= 55.00		Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
	N of	3 (Year	0.45					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Bocaccio	4010	Based)	(0.222)	284.01	220.96	220.96	2011	MacCall 2010).
	N of	3 (Year	0.45					
Bronzespotted	4010	Based)	(0.222)					

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
	N of	3 (Year	0.45					
Chameleon	4010	Based)	(0.222)					
Chilipepper	N of 4010	1 (Year Based)	0.45 (0.104)	170.38	152.66	152.66	2015	
Cowcod	N of 4010	3 (Year Based)	0.45 (0.222)	0.58	0.45	0.45	2019	OFL is based on the 2019 DB-SRA estimate in Appendix B of the 2019 cowcod assessment (Table F2 pg 179; Percentile 50% (Median)). OFLs are apportioned to the north of 40°10' N lat. (3%) and 40°10' - 34°27' N lat. (97%) based on cumulative historical catch (Table F3 pg 179; 1916-2018).
Flag	N of 4010	3 (Year Based)	0.45 (0.222)	0.07	0.06	0.06	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Freckled	N of 4010	3 (Year Based)	0.45 (0.222)					
Greenblotched	N of 4010	3 (Year Based)	0.45 (0.222)	1.28	0.99	0.99	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	42 -	2 (Year	0.45					
Greenspotted	4010	Based)	(0.227)				2011	Harvest specifications not yet available.
Greenspotted	WA - OR	3 (Year Based)	0.45 (0.222)	6.10	4.75	4.75	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
<u>r</u>	N of	3 (Year	0.45	3.13				OFL based on the MSY associated with the FMSY proxy in the 2009 assessment (Table d pg vii; Yield with SPR50% at SBSPR). The portion of the coastwide stock North (84.5%) and South (15.5%) of 40°10' N lat. is based on the mean of the 2003-2008 swept area biomass estimates from the NMFS trawl
Greenstriped	4010	Based)	(0.222)	623.61	485.17	485.17	2009	; ±
Greensurped	N of	3 (Year	0.45	023.01	703.17	103.17	2007	Survey.
Halfbanded	4010	Based)	(0.222)					
	N of	3 (Year	0.45					
Harlequin	4010	Based)	(0.222)					

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
Stock, Complex	N of	3 (Year	0.45	012	1120	1102	1001	
Honeycomb	4010	Based)	(0.222)					
•	N of	3 (Year	0.45					
Mexican	4010	Based)	(0.222)					
Pink	N of 4010	3 (Year Based)	0.45 (0.222)	0.004	0.003	0.003	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	N of	3 (Year	0.45					
Pinkrose	4010	Based)	(0.222)					
	N of	3 (Year	0.45					
Puget Sound	4010	Based)	(0.222)					
	N of	3 (Year	0.45					
Pygmy	4010	Based)	(0.222)					
Redstripe	N of 4010	3 (Year Based)	0.45 (0.222)	269.91	209.99	209.99	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Rosethorn	N of 4010	3 (Year Based)	0.45 (0.222)	12.90	10.03	10.03	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Rosy	N of 4010	3 (Year Based)	0.45 (0.222)	3.03	2.36	2.36	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Silvergray	N of 4010	3 (Year Based)	0.45 (0.222)	159.42	124.03	124.03	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Speckled	N of 4010	3 (Year Based)	0.45 (0.222)	0.17	0.13	0.13	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Squarespot	42 - 4010	2 (Year Based)	0.45 (0.151)				2021	An OFL is not provided in this geographic area, per Section 4.3 (pg 21) of the 2021 squarespot rockfish data-moderate assessment in California, as after 2000 it is assumed that 100% of removals are from South of 40°10' N lat. and thus no apportionment of the overall OFL was made to this area.

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
Starry	N of 4010	3 (Year Based)	0.45 (0.222)	0.004	0.003	0.003	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Stripetail	N of 4010	3 (Year Based)	0.45 (0.222)	40.40	31.43	31.43	2011	
Swordspine	N of 4010	3 (Year Based)	0.45 (0.222)	0.0001	0.0001	0.0001	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Tiger	N of 4010	3 (Year Based)	0.45 (0.222)	0.97	0.75	0.75	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Vermilion	N of 42						2021	Harvest specifications not yet available. Stock defined as OR and WA (N of 42). SSC will need to combine assessments to develop harvest specifications and harvest control rule.
Vermilion	42 - 4010						2021	Harvest specifications not yet available. Stock defined as CA (S of 42), apportioned to complex.
Shelf Rockfish South	S of 4010			1,831.00	1,459.00	1,458.00		Sum of harvest specification contributions of component stocks in the complex.
Bronzespotted	S of 4010	3 (Year Based)	0.45 (0.222)	3.65	2.84	2.84	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Chameleon	S of 4010	3 (Year Based)	0.45 (0.222)					
Flag	S of 4010	3 (Year Based)	0.45 (0.222)	23.42	18.22	18.22	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Freckled	S of 4010	3 (Year Based)	0.45 (0.222)					
Greenblotched	S of 4010	3 (Year Based)	0.45 (0.222)	23.13	18.00	18.00	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Greenspotted	4010 - 3427	2 (Year Based)	0.45 (0.227)				2011	Harvest specifications not yet available.

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
	S of	2 (Year	0.45					
Greenspotted	3427	Based)	(0.227)				2011	·
	S of	3 (Year	0.45					OFL based on the MSY associated with the FMSY proxy in the 2009 assessment (Table d pg vii; Yield with SPR50% at SBSPR). The portion of the coastwide stock North (84.5%) and South (15.5%) of 40°10' N lat. is based on the mean of the 2003-2008 swept area biomass estimates from the NMFS trawl
Greenstriped	4010	Based)	(0.222)	114.39	89.00	89.00	2009	survey.
	S of	3 (Year	0.45					
Halfbanded	4010	Based)	(0.222)					
	S of	3 (Year	0.45					
Harlequin	4010	Based)	(0.222)					
Honeycomb	S of 4010	3 (Year Based)	0.45 (0.222)	9.87	7.68	7.68	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Mexican	S of 4010	3 (Year Based)	0.45 (0.222)	5.05	3.93	3.93	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Pink	S of 4010	3 (Year Based)	0.45 (0.222)	2.50	1.95	1.95	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	S of	3 (Year	0.45					,
Pinkrose	4010	Based)	(0.222)					
Pygmy	S of 4010	3 (Year Based)	0.45 (0.222)					
Redstripe	S of 4010	3 (Year Based)	0.45 (0.222)	0.49	0.38	0.38	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
·	S of	3 (Year	0.45					Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Rosethorn	4010	Based)	(0.222)	2.13	1.66	1.66	2011	MacCall 2010).
Rosy	S of 4010	3 (Year Based)	0.45 (0.222)	44.51	34.63	34.63	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
Silvergray	S of 4010	3 (Year Based)	0.45 (0.222)	0.54	0.42	0.42	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Speckled	S of 4010	3 (Year Based)	0.45 (0.222)	39.38	30.64	30.64	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Squarespot	S of 4010	2 (Year Based)	0.45 (0.151)	7.12	6.04	5.90	2021	OFL projected using a 50% SPR harvest rate from the 2021 squarespot rockfish data-moderate assessment in CA (Table 17 pg 47 – table incorrectly labeled ACL as ABC and buffer calculations were corrected in final projection values Agenda Item G.6 Attachment 2 September 2023).
Starry	S of 4010	3 (Year Based)	0.45 (0.222)	62.57	48.68	48.68	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Stripetail	S of 4010	3 (Year Based)	0.45 (0.222)	23.62	18.38	18.38	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Swordspine	S of 4010	3 (Year Based)	0.45 (0.222)	14.22	11.06	11.06	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Tiger	S of 4010	3 (Year Based)	0.45 (0.222)	0.04	0.03	0.03	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
Vermilion	S of 4010		(*!===)				2021	Harvest specifications not yet available. Stock
Yellowtail Rockfish	S of 4010	3 (Year Based)	0.45 (0.222)	1,064.40	828.10	828.10	2011	Revisions to OFL Contributions for Category 3 Stocks (Dick 2011).
Slope Rockfish North	N of 4010			1,754.00	1,460.00	1,460.00		Sum of harvest specification contributions of component stocks in the complex.
A	N of	1 (Year	0.45	17.22	15.27	15 27	2012	OFL is based on the 2013 assessment, with a category 1 sigma, P* = 0.45, ACL=ABC in projections provided in 2023 (Table 2 pg 3; Agenda Item G.2 Attachment 2 September 2023). The portion of the coastwide stock north (19%) and south (81%) of
Aurora	4010	Based)	(0.113)	17.22	15.27	15.27	2013	40°10′ N lat. is based on average survey biomass.

Stool /Complex	A	Catagoria	P*	2026 OFL	2026 ABC	2026	Assess	Notes
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes Revisions to OFL Contributions for Category 3
	NT C	2 (37	0.45					Stocks (Dick 2011). Original NOAA Technical
Bank	N of 4010	3 (Year Based)	0.45 (0.222)	17.24	13.41	13.41	2011	Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
								Revisions to OFL Contributions for Category 3
	N of	3 (Year	0.45					Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Blackgill Rockfish	4010	Based)	(0.222)	4.70	3.66	3.66	2011	MacCall 2010).
								Revisions to OFL Contributions for Category 3
	N of	3 (Year	0.45					Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Redbanded	4010	Based)	(0.222)	45.26	35.21	35.21	2011	MacCall 2010).
								OFL based on the 2019 catch-only update of the 2013
								assessment (Table f pg xi; Agenda Item H.5 Supp Revised Attachment 24 Sept 2019). The coastwide
								OFLs are apportioned north (98%) and south (2%)
	NI -C	2 (Year	0.45					based on average landings during 1985-2012.N of
Rougheye/Blackspotted	N of 4010	Based)	(0.212)	232.26	183.02	183.02	2013	40°10' N. lat. 2025 OFL = 238 * 0.98 = 233.24; 2026 OFL = 237 * 0.98 = 232.26.
								OFL from the 2019 projection update of the 2013
								assessment (Table 15 pg 8; Agenda Item H.8 Supp Attachment 2 September 2019). OFLs are
								apportioned to the North (80%) and South (20%) of
								4010 N lat. based on average swept area biomass
	N of	2 (Year	0.45					estimates from the triennial survey.N of 40°10' N lat. 2025 OFL = 350 * 0.8 = 280; 2026 OFL = 348 * 0.8
Sharpchin	4010	Based)	(0.212)	278.40	219.38	219.38	2013	
								Revisions to OFL Contributions for Category 3
	N of	3 (Year	0.45					Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Shortraker	4010	Based)	(0.222)	18.70	14.55	14.55	2011	MacCall 2010).
	N. C	1.07	0.45					Projections based on the 2009 assessment using the
Splitnose	N of 4010	1 (Year Based)	0.45 (0.044)	948.00	826.00	826.00	2009	sigmas for 2020 and beyond (Table 3 pg 3; Agenda Item G.2 Attachment 2 September 2023).
			(*****)	1	520.00	======	3007	Revisions to OFL Contributions for Category 3
	Nof	2 (Vaan	0.45					Stocks (Dick 2011). Original NOAA Technical
Yellowmouth	N of 4010	3 (Year Based)	0.45 (0.222)	192.45	149.72	149.72	2011	Memo NOAA-TM-NMFS-SWFSC-460 (Dick and MacCall 2010).
	S of		(0.222)				2011	Sum of harvest specification contributions of
Slope Rockfish South	4010			865.00	690.00	690.00		component stocks in the complex.

G. 1/G		C	P*	2026	2026	2026	Assess	
Stock/Complex	Area	Category	(buffer)	OFL	ABC	ACL	Year	Notes CFL: 1 1 2012
								OFL is based on the 2013 assessment, with a category 1 sigma, P* = 0.45, ACL=ABC in projections
								provided in 2023 (Table 2 pg 3; Agenda Item G.2
								Attachment 2 September 2023). The portion of the
	S of	1 (Year	0.45					coastwide stock north (19%) and south (81%) of
Aurora	4010	Based)	(0.113)	73.40	65.11	65.11	2013	·
								Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
	S of	3 (Year	0.45					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Bank	4010	Based)	(0.222)	503.22	391.50	391.50	2011	MacCall 2010).
								Values from a 2019 catch-only update/projection
								from the 2017 assessment update of blackgill
	C C	2.07	0.45					rockfish in the Conception and Monterey INPFC
Blackgill Rockfish	S of 4010	2 (Year Based)	0.45 (0.182)	203.00	166.05	166.05	2017	areas (Table f pg x; Agenda Item H.5 Attachment 16 September 2019).
Diackgili Kocklisii	S of	3 (Year	0.162)	203.00	100.03	100.03	2017	September 2019).
Pacific Ocean Perch	4010	Based)	(0.222)					
1 4041110 0 404111 1 41411	.010	200500)	(0.222)					Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
	S of	3 (Year	0.45					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Redbanded	4010	Based)	(0.222)	10.41	8.10	8.10	2011	MacCall 2010).
								OFL based on the 2019 catch-only update of the 2013
								assessment (Table f pg xi; Agenda Item H.5 Supp
								Revised Attachment 24 Sept 2019). The coastwide
								OFLs are apportioned north (98%) and south (2%)
	S of	2 (Year	0.45					based on average landings during 1985-2012.S of 40°10' N. lat. 2025 OFL = 238 * 0.02 = 4.76; 2026
Rougheye/Blackspotted	4010	Based)	(0.212)	4.74	3.74	3.74	2013	OFL = $237 * 0.02 = 4.74$.
Rougheyer Blackspotted	4010	- Dasea)	(0.212)	7./7	3.74	3.74	2013	OFL from the 2019 projection update of the 2013
								assessment (Table 15 pg 8; Agenda Item H.8 Supp
								Attachment 2 September 2019). OFLs are
								apportioned to the North (80%) and South (20%) of
								40°10' N lat. based on average swept area biomass
								estimates from the triennial survey.S of 40°10' N lat.
~	S of	2 (Year	0.45					2025 OFL = 350 * 0.2 = 70; 2026 OFL = 348 * 0.2 =
Sharpchin	4010	Based)	(0.212)	69.60	54.84	54.84	2013	
								Revisions to OFL Contributions for Category 3
	S of	3 (Year	0.45					Stocks (Dick 2011). Original NOAA Technical Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Shortraker	4010	Based)	(0.222)	0.10	0.08	0.08	2011	· · · · · · · · · · · · · · · · · · ·
Shornaker	1010	Dascaj	(0.222)	0.10	0.00	0.00	2011	1410Can 2010).

Stock/Complex	Area	Category	P* (buffer)	2026 OFL	2026 ABC	2026 ACL	Assess Year	Notes
								Revisions to OFL Contributions for Category 3
								Stocks (Dick 2011). Original NOAA Technical
	S of	3 (Year	0.45					Memo NOAA-TM-NMFS-SWFSC-460 (Dick and
Yellowmouth	4010	Based)	(0.222)	0.85	0.66	0.66	2011	MacCall 2010).