HARVEST SPECIFICATION PROJECTIONS FOR SELECT WEST COAST GROUNDFISH STOCKS IN 2025 AND BEYOND INFORMED BY THE SIGMAS IMPLEMENTED IN 2020

The following harvest projections are provided for stocks without new assessments or catch-only projections in the current stock assessment cycle (see Agenda Item G.6), but did not yet have values provided in published documents for 2025 and beyond. These projections are based on the most recent assessments (both full and update assessments) and assume default harvest control rules for 2025 and beyond.

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Table 3. Splitnose rockfish harvest specification projections, 2025-2026. Projections based onthe 2009 assessment using the sigmas for 2020 and beyond.3

Year since	Category 1 (baseline $\sigma = 0.5$)								
assessment –		ſ	P*	T					
	0.45	0.4	0.35	0.3	0.25				
1	6.1%	11.9%	17.5%	23.1%	28.6%				
2	6.5%	12.7%	18.7%	24.6%	30.4%				
3	7.0%	13.6%	19.9%	26.0%	32.1%				
4	7.4%	14.4%	21.0%	27.5%	33.8%				
5	7.8%	15.2%	22.2%	28.9%	35.5%				
6	8.3%	16.0%	23.3%	30.3%	37.1%				
7	8.7%	16.8%	24.4%	31.6%	38.7%				
8	9.1%	17.6%	25.5%	33.0%	40.2%				
9	9.6%	18.3%	26.5%	34.3%	41.7%				
10	10.0%	19.1%	27.6%	35.5%	43.2%				
11	10.4%	19.9%	28.6%	36.8%	44.6%				
12	10.8%	20.6%	29.6%	38.0%	46.0%				
13	11.3%	21.4%	30.7%	39.2%	47.3%				
14	11.7%	22.1%	31.6%	40.4%	48.6%				
15	12.1%	22.9%	32.6%	41.6%	49.9%				
	Category 2 (baseline $\sigma = 1.0$)								
Year since	P*								
assessment	0.45	0.4	0.35	0.3	0.25				
1	11.8%	22.4%	32.0%	40.8%	49.1%				
2	12.6%	23.8%	33.9%	43.1%	51.6%				
3	13.5%	25.3%	35.8%	45.3%	54.0%				
4	14.3%	26.7%	37.6%	47.4%	56.2%				
5	15.1%	28.1%	39.4%	49.4%	58.4%				
6	15.9%	29.4%	41.1%	51.4%	60.4%				
7	16.7%	30.7%	42.8%	53.3%	62.4%				
8	17.4%	32.0%	44.4%	55.1%	64.2%				
9	18.2%	33.3%	46.0%	56.8%	66.0%				
10	19.0%	34.6%	47.6%	58.5%	67.7%				
11	19.7%	35.8%	49.0%	60.1%	69.3%				
12	20.5%	37.0%	50.5%	61.6%	70.8%				
13	21.2%	38.2%	51.9%	63.1%	72.2%				
14	22.0%	39.4%	53.3%	64.5%	73.6%				
15	22.7%	40.5%	54.6%	65.9%	74.9%				
	Category 3 (constant $\sigma = 2.0$)								
F			P*	,					
	0.45	0.4	0.35	0.3	0.25				

Table 1. Scientific uncertainty buffers recommended by the SSC in 2019 and implementedin 2020 (PFMC adopted per Agenda Item G.3.a Supplemental SSC Report 1, March 2019).

Table 2. Aurora rockfish harvest specification projections, 2025-2026. Projections based on the 2013 assessment using the sigmas for 2020 and beyond. The portion of the coastwide stock north (19%) and south (81%) of 40°10' N lat. is based on average survey biomass.

Year	Buffer	OFL (mt)	ABC (mt)	South OFL	South ABC	North OFL	North ABC	Depletion
2025	0.892	91.00	81.17	73.71	65.75	17.29	15.42	64.0%
2026	0.887	90.62	80.38	73.40	65.11	17.22	15.27	63.9%

Table 3. Splitnose rockfish harvest specification projections, 2025-2026. Projections based on the 2009 assessment using the sigmas for 2020 and beyond.

		Coastwide			N of 40°10' N lat.		S of 40°10' N lat.	
Year	Buffer	OFL	ABC	Depletion	OFL	ABC	OFL	ABC
2025	0.875	2,693	2,356	0.86	970	848	1,724	1,508
2026	0.871	2,635	2,295	0.84	948	826	1,686	1,469

Table 4. Squarespot rockfish harvest specification projections, 2023-2032. Projections based on the 2021 assessment using the sigmas for 2020 and beyond. Buffer calculations were corrected from values in the 2021 assessment Table 17 with a $P^*=0.45$ and sigma = 1.0 and a correction to labels.

			P* 0.45 and Sigma 1.0	
Year	OFL	ABC	Buffer	ACL
2023	5.33	4.66	0.874	4.14
2024	5.98	5.17	0.865	4.80
2025	6.58	5.64	0.857	5.39
2026	7.12	6.04	0.849	5.90
2027	7.57	6.37	0.841	6.32
2028	7.95	6.62	0.833	6.63
2029	8.25	6.82	0.826	6.82
2030	8.50	6.95	0.818	6.95
2031	8.71	7.06	0.810	7.06
2032	8.89	7.14	0.803	7.14

Table 5. Copper rockfish harvest specification projections, 2025-2032 in Washington and Oregon, based on Amendment 31 stock definitions. Projections based on the 2021 assessment using the sigmas for 2020 and beyond with a $P^*=0.45$. SB = Spawning biomass.

		Was	shingto	n	Oregon				Washington and Oregon			
Year	OFL	ABC	SB	Depletion	OFL	ABC	SB	Depletion	OFL	ABC	SB	Depletion
2025	2.20	1.89	3.34	0.437	16.85	14.44	25.63	0.661	19.06	16.34	28.97	0.624
2026	2.23	1.89	3.39	0.443	16.40	13.93	24.88	0.642	18.63	15.82	28.26	0.609
2027	2.25	1.90	3.43	0.448	16.02	13.47	24.23	0.625	18.27	15.37	27.66	0.596
2028	2.28	1.90	3.47	0.454	15.70	13.07	23.68	0.611	17.97	14.97	27.15	0.585
2029	2.30	1.90	3.51	0.459	15.42	12.74	23.21	0.599	17.72	14.64	26.71	0.576
2030	2.32	1.90	3.54	0.463	15.19	12.42	22.81	0.589	17.51	14.32	26.35	0.568
2031	2.34	1.89	3.58	0.468	14.99	12.15	22.47	0.580	17.33	14.04	26.05	0.561
2032	2.36	1.89	3.61	0.472	14.83	11.91	22.19	0.572	17.19	13.80	25.80	0.556

Table 6. Vermillion rockfish harvest specification projections, 2025-2032 in Washington and Oregon, based on Amendment 31 stock definitions. Projections based on the 2021 assessment using the sigmas for 2020 and beyond with a P*=0.45.

Year	Assumed catch	OFL	ABC	ACL	Buffer	Spawning Output	Fraction Unfished	Sub ACL- OR	Sub ACL- WA
2023	13.32	-	-	-	-	23.14	0.72	-	-
2024	13.15	-	-	-	-	23.25	0.72	-	-
2025	-	13.97	13.01	13.01	0.93	23.17	0.72	12.26	0.75
2026	-	13.65	12.64	12.64	0.93	22.93	0.71	11.89	0.74
2027	-	13.31	12.27	12.27	0.92	22.59	0.70	11.53	0.74
2028	-	13.11	12.02	12.02	0.92	22.19	0.69	11.29	0.74
2029	-	12.83	11.71	11.71	0.91	21.76	0.68	10.98	0.74
2030	-	12.56	11.40	11.40	0.91	21.32	0.66	10.67	0.73
2031	-	12.31	11.13	11.13	0.90	20.90	0.65	10.40	0.73
2032	-	12.08	10.86	10.86	0.90	20.49	0.64	10.13	0.73