

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

The following harvest projections are provided for stocks with revised or corrected catch-only projections, which 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) or updated catch-only projections and assume default harvest control rules for 2025 and beyond.

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

Year since assessment	Category 1 (baseline $\sigma = 0.5$)				
	P*				
	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%
Year since assessment	Category 2 (baseline $\sigma = 1.0$)				
	P*				
	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 $\sigma = 2.0$)				
	P*				
	0.45	0.4	0.35	0.3	0.25
	22.2%	39.8%	53.7%	65.0%	74.0%

Table 2. Dover sole harvest specification projections, 2021-2032. Projections based on the 2021 assessment using the sigmas for 2020 and beyond, $P^*=0.45$ with assumed removals equal to the adopted ACL of 50,000 mt in 2023-24 (per September 2023 Council request).

Year	OFL (mt)	ABC (mt)	ACL	Buffer	Assumed Removals (mt)	Spawning Biomass	Fraction Unfished
2021	93,547	84,192	50,000	-	10,000	232,065	0.789
2022	84,192	78,436	50,000	-	10,000	231,642	0.788
2023	63,834	59,685	50,000	0.935	50,000	230,918	0.785
2024	55,859	51,949	50,000	0.930	50,000	211,824	0.720
2025	51,214	47,424	TBD	0.926	-	192,697	0.655
2026	46,049	42,457	TBD	0.922	-	175,053	0.595
2027	42,064	38,573	TBD	0.917	-	160,340	0.545
2028	39,010	35,616	TBD	0.913	-	148,190	0.504
2029	36,670	33,333	TBD	0.909	-	138,201	0.470
2030	34,873	31,526	TBD	0.904	-	130,018	0.442
2031	33,490	30,141	TBD	0.900	-	123,340	0.419
2032	32,407	29,037	TBD	0.896	-	117,869	0.401

Table 3. Oregon black rockfish harvest specification projections, 2023-2034. Projections based on the 2023 assessment using the sigmas for 2020 and beyond, and assume a $P^*=0.45$, $\sigma = 0.5$, and removals of 466 mt in years 2023 and 2024 (per September 2023 Council request).

Year	Predicted OFL (mt)	ABC catch	Age 0+	Spawning output	Fraction unfished
2023	396.25	466.00	6048.92	674.10	0.45
2024	380.73	466.00	5980.53	643.12	0.43
2025	374.20	349.88	5945.70	612.95	0.41
2026	382.71	355.92	6041.11	607.49	0.41
2027	392.95	363.87	6133.89	610.12	0.41
2028	402.44	371.05	6214.95	618.22	0.41
2029	410.10	376.06	6281.75	628.96	0.42
2030	415.76	379.59	6335.89	640.24	0.43
2031	419.69	381.50	6379.90	650.68	0.44
2032	422.44	381.89	6416.99	659.65	0.44
2033	424.55	382.10	6450.21	667.15	0.45
2034	426.37	382.03	6480.92	673.38	0.45

Table 4. Rex Sole harvest specification projections, 2023-2034. Projections based on the 2023 assessment using the sigmas for 2020 and beyond, and assume a $P^*=0.40$ (per September 2023 Council request).

Year	OFL (mt)	ABC Catch (mt)	Spawning output (millions)	Fraction unfished
2023	5173.05	447.17	912.72	0.76
2024	5188.27	447.17	915.43	0.76
2025	5205.59	3966.66	919.55	0.77
2026	4430.60	3309.66	782.80	0.65
2027	3887.61	2849.62	683.62	0.57
2028	3515.28	2527.49	612.74	0.51
2029	3265.15	2305.19	563.00	0.47
2030	3098.63	2147.35	528.39	0.44
2031	2987.50	2031.50	504.32	0.42
2032	2911.74	1942.13	487.41	0.41
2033	2858.29	1869.32	475.40	0.40
2034	2819.35	1810.02	466.84	0.39

PFMC
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