

Catch-only projection for yellowtail rockfish (*Sebastes flavidus*) north of 40° 10' North latitude off the U.S. West Coast.

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This document details a catch-only projection for yellowtail rockfish north of 40° 10' lat. (referred to as yellowtail rockfish north). The most recent assessment for yellowtail rockfish north was a benchmark assessment conducted in 2017. This analysis updates catches between 2017-2022 to the removals by year from the Groundfish Multiyear Mortality (GEMM). The removals for 2023 and 2024 were set equal to mortality projections provided by the Groundfish Management Team (GMT). For years 2025 beyond, removals were set equal to the projected Acceptable Biological Catch (ABC) based on a category 1 time-varying σ and a P* value of 0.45. The catches starting in 2025 were set equal to the average catches by fleet between 2017-2024.

Table 1: The projected OFL (mt), ABC (mt), buffer, spawning output in trillions of eggs, and the fraction of unfished spawning output by year.

Year	OFL (mt)	ABC (mt)	Buffer	Assumed Removals (mt)	Spawning Output	Fraction Unfished
2017	-	-	—	3054.9	11.28	0.75
2018	-	-	—	3523.8	10.90	0.73
2019	-	-	—	3712.3	10.53	0.70
2020	-	-	—	3674.1	10.19	0.68
2021	-	-	—	2928.8	9.92	0.66
2022	-	-	—	3096.6	9.83	0.66
2023	-	-	—	3212.7	9.77	0.65
2024	-	-	—	3173.5	9.74	0.65
2025	6865.96	6241.16	0.909	-	9.75	0.65
2026	6662.14	6022.57	0.904	-	9.36	0.62
2027	6490.55	5841.49	0.9	-	9.04	0.60
2028	6346.05	5686.06	0.896	-	8.76	0.58
2029	6225.34	5553	0.892	-	8.54	0.57
2030	6125.66	5433.46	0.887	-	8.35	0.56
2031	6044.83	5337.58	0.883	-	8.20	0.55
2032	5979.66	5256.12	0.879	-	8.08	0.54