

2025 Catch only Projection of Black Rockfish (*Sebastes melanops*) in state and federal waters off Oregon

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This document details a catch-only projection for black rockfish. The most recent assessment for black rockfish was conducted in 2023. This analysis updates catches between 2023 - 2024 to the best information about observed removals as provided by the Groundfish Management Team (GMT). The removals for 2025 and 2026 were set equal to mortality projections also provided by the GMT for each fleet in the model. For years 2027 and beyond, removals were set equal to the projected Annual Catch Limit (ACL) based on a category 1 time-varying σ of 0.5 and a P^* value of 0.45. These buffers are the same as in the previous stock assessment, with two additional years of buffers for years 2035 and 2036. Projections assume the same gear selectivity in the most recent year of the stock assessment and the same proportions of catch among fisheries as in the last fixed catch year.

Table 1: Original 2023 projection and new catch-only projection for OFLs (mt), buffer, ABCs (mt), actual & assumed catch (mt), ACLs (mt), spawning output (millions of eggs), and stock status (fraction of unfished spawning output) given the removals. The gray shading indicates values associated with the original 2023 assessment projection. In both the original model and the new projection, the removals for years beyond the values in the ‘Actual & Assumed Removals’ columns are the ACL values estimated from that model.

Year	OFL (2023)	OFL	Buffer	ABC (2023)	ABC	Actual & Assumed Removals (2023)	Actual & Assumed Removals	ACL (2023)	ACL	Spawning Output	Stock Status (2023)	Stock Status
2023	—	—	—	—	—	512	414	—	—	674.10	0.452	0.452
2024	—	—	—	—	—	512	376	—	—	650.99	0.427	0.437
2025	368	—	—	344	—	—	344	344	—	634.23	0.402	0.426
2026	377	—	—	351	—	—	350	350	—	629.55	0.399	0.422
2027	388	402	0.926	360	372	—	—	360	372	632.17	0.402	0.424
2028	399	410	0.922	368	378	—	—	368	378	637.64	0.408	0.428
2029	407	416	0.917	373	381	—	—	373	381	645.62	0.416	0.433
2030	413	420	0.913	377	384	—	—	377	384	654.27	0.425	0.439
2031	418	424	0.909	380	385	—	—	380	385	662.40	0.433	0.444
2032	420	426	0.904	380	385	—	—	380	385	669.55	0.439	0.449
2033	423	428	0.900	380	385	—	—	380	385	675.69	0.445	0.453
2034	425	430	0.896	380	385	—	—	380	385	680.93	0.449	0.457
2035	—	431	0.892	—	385	—	—	—	385	685.50	—	0.460
2036	—	433	0.887	—	384	—	—	—	384	689.62	—	0.463