

Catch only projection for darkblotched rockfish

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This document details a catch-only projection for darkblotched rockfish. The most recent assessment for darkblotched rockfish was conducted in 2017, and the most recent catch-only projection was conducted in 2021. This analysis updates catches between 2017 - 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 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 projection, with four additional years of buffers for years 2033-2036. Projected catches were divided among fleets using the same relative-F as in previous projections, which approximately matches recent proportions among fleets.

Table 1: 2021 catch-only projection and new projection for OFLs (mt), buffer, ABCs (mt), actual & assumed catch (mt), ACLs (mt), spawning output (billions of eggs), and stock status (fraction of unfished spawning output) given the removals. The gray shading indicates values associated with the previous 2021 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.

* In the 2021 projection, the 2019 catch was erroneously entered in the forecast file as 316 mt rather than 416 mt.

Year	OFL (2021)	OFL	Buffer	ABC (2021)	ABC	Actual & Assumed Removals (2021)	Actual & Assumed Removals	ACL (2021)	ACL	Spawning Output	Stock Status (2021)	Stock Status
2017	—	—	—	—	—	245	238	—	—	1419	0.400	0.400
2018	—	—	—	—	—	344	344	—	—	1481	0.418	0.418
2019	—	—	—	—	—	316*	416	—	—	1558	0.440	0.440
2020	—	—	—	—	—	307	342	—	—	1653	0.468	0.466
2021	—	—	—	—	—	479	336	—	—	1755	0.498	0.495
2022	—	—	—	—	—	458	349	—	—	1847	0.521	0.521
2023	894	—	—	820	—	—	302	820	—	1923	0.541	0.542
2024	857	—	—	782	—	—	363	782	—	1987	0.549	0.561
2025	830	—	—	754	—	—	394	754	—	2037	0.554	0.575
2026	810	—	—	732	—	—	394	732	—	2075	0.557	0.585
2027	795	859	0.900	716	773	—	—	716	773	2106	0.558	0.594
2028	784	842	0.896	702	754	—	—	702	754	2106	0.558	0.594
2029	775	828	0.892	691	738	—	—	691	738	2101	0.556	0.593
2030	767	816	0.887	680	724	—	—	680	724	2093	0.554	0.590
2031	761	806	0.883	672	711	—	—	672	711	2082	0.551	0.587
2032	755	797	0.879	664	700	—	—	664	700	2069	0.549	0.584
2033	—	789	0.875	—	690	—	—	—	690	2055	—	0.580
2034	—	782	0.871	—	681	—	—	—	681	2041	—	0.576
2035	—	776	0.867	—	673	—	—	—	673	2026	—	0.572
2036	—	770	0.863	—	665	—	—	—	665	2012	—	0.568