

Canary Rockfish Catch Report for 2011-12

This catch report updates the status of the canary rockfish (*Sebastes pinniger*) resource off the coast of the United States from southern California to the U.S.-Canadian border using data through 2012. There is currently no genetic evidence that there are distinct biological stocks of canary rockfish off the U.S. coast. The last full assessment was performed in 2007 (Stewart, 2008). Updates for canary rockfish were done in 2009 (Stewart, 2009) and 2011 (Wallace et al., 2011). The resource was modeled as a single stock using the most up-to-date version of Stock Synthesis available at the time.

Fishing mortality for 2010 and 2011 was estimated in West Coast Groundfish Observer Program (WCGOP) total mortality reports for 2010 (NWFSC, 2011) and 2011 (NWFSC, 2012). Observed discard rates for each species were directly expanded to a fleet-wide level of discard mortality through a deterministic approach. This discard mortality is added to landings data to give an estimate of total mortality. (Note that the most current canary rockfish assessment only had the Groundfish Management Team's (GMT's) scorecard available for an estimate of 2010 fishing mortality.)

The GMT's scorecard for 2012 was used for the fishing mortality in 2012 (GMT, 2012). The GMT's scorecard aggregates research, state, and tribal in-season catch estimates to track overfished species totals against current harvest specifications.

The fishing mortalities for 2010-2012 (Table 1) are all estimated to be under the Annual Catch Limits (ACLs) as set by the Pacific Fishery Management Council and approved by the National Marine Fishery Service (PFMC, 2010; PFMC, 2011; PFMC, 2012). The ACLs for 2013 and 2014 are 116 and 119 mt, respectively (PFMC, 2012).

The current target rebuilding year (T_{TARGET}) for canary rockfish is 2030 and the SPR harvest rate is $F_{88.7\%}$ (PFMC, 2012).

Table 1. Estimated annual fishing mortality and management reference points for canary rockfish in 2010-12.

Year	Estimated fishing mortality (mt)	Management reference points (harvest specifications)					
		ACL (2010 OY) (mt)	Estimated mortality (% of ACL)	ABC (mt)	Estimated mortality (% of ABC)	OFL (2010 ABC) (mt)	Estimated mortality (% of OFL)
2010	43	105	41%	-	-	940	5%
2011	52	102	51%	586	9%	614	9%
2012	80	107	75%	594	13%	622	13%

References

- Groundfish Management Team (GMT): Pacific Fishery Management Council (PFMC). 2012. Scorecard for November of 2012. Allocations and projected mortality impacts (mt) of overfished groundfish species for 2012. Lynn Mattes (personal communication).
- Northwest Fisheries Science Center (NWFSC). 2011. Estimated discard and catch of groundfish species in the 2010 US West Coast Fisheries. West Coast Groundfish Observer Program. National Marine Fisheries Service, NWFSC, 2725 Montlake Blvd E., Seattle, WA 98112.
- Northwest Fisheries Science Center (NWFSC). 2012. Estimated discard and catch of groundfish species in the 2011 US West Coast Fisheries. West Coast Groundfish Observer Program. National Marine Fisheries Service, NWFSC, 2725 Montlake Blvd E., Seattle, WA 98112.
- Pacific Fishery Management Council (PFMC). 2010. Proposed acceptable biological catch and optimum yield specifications and management measures for the 2009-2010 Pacific Coast Groundfish Fishery. Pacific Fishery Management Council, Portland, OR.
- Pacific Fishery Management Council (PFMC). 2011. Proposed Harvest Specifications and Management Measures for the 2011-2012 Pacific Coast Groundfish Fishery. Pacific Fishery Management Council, Portland, OR.
- Pacific Fishery Management Council (PFMC). 2012. Proposed Harvest Specifications and Management Measures for the 2013-2014 Pacific Coast Groundfish Fishery and Amendment 21-2 to the Pacific Coast Fishery Management Plan. Pacific Fishery Management Council, Portland, OR.
- Stewart, I. J. 2008. Status of the U.S. canary rockfish resource in 2007. Pacific Fishery Management Council, Portland, OR. 362 p.
- Stewart, I. J. 2009. Status of the U.S. canary rockfish resource in 2009 (Update of 2007 assessment methods). Pacific Fishery Management Council, Portland, OR. 254 p.
- Wallace, J. W. and J.M. Cope. 2011. Status update of the U.S. canary rockfish resource in 2011. Pacific Fishery Management Council, Portland, OR. 245 p.