

rebuilding the stock to Bmsy by the year 2041 (Tmax). The OY is reduced by 3 mt for the amount estimated to be taken during research fishing, resulting in a commercial OY of 374 mt. The landed catch value is 314 mt, and is based on a discard rate of 16 percent.

k/ Shortbelly rockfish remains as an unexploited stock and is difficult to assess quantitatively. The 1989 assessment provided 2 alternative yield calculations of 13,900 mt and 47,000 mt. NMFS surveys have shown poor recruitment in most years since 1989, indicating low recent productivity and a naturally declining population in spite of low fishing pressure. The ABC and OY therefore are set at 13,900 mt, the low end of the range in the assessment.

l/ Widow rockfish was assessed in 2000 and was believed to be at 24 percent of its unfished biomass. Widow rockfish was declared overfished on January 11, 2001 (66 FR 2338). The ABC (3,871 mt) is based on a F50% Fmsy proxy. The OY (832 mt) is based on a 60 percent probability of rebuilding the stock to Bmsy by the year 2039 (Tmax). The OY is reduced by 5 mt for the amount estimated to be taken as recreational catch, 1.5 mt for the amount estimated to be taken during research fishing, 0.4 mt for the amount estimated to be taken in non-groundfish fisheries, and 45 mt for the amount estimated to be taken in the tribal fisheries, resulting in a commercial OY of 781 mt. The commercial OY is divided with open access receiving 3 percent (23 mt) and limited entry receiving 97 percent (757 mt). The limited entry landed catch equivalent for the open access fishery is 20 mt. The limited entry allocation is reduced by 182 mt for anticipated bycatch in the at-sea whiting fishery and an additional 30 mt for anticipated bycatch in the shore-based sector of the whiting fishery. The remainder of the limited entry allocation is reduced by 16 percent to account for discards in the trip limit fisheries. The landed catch equivalent, excluding the at-sea whiting fishery, is 488 mt. Tribal vessels are estimated to land about 45 mt of widow rockfish in 2003, but do not have a specific allocation at this time.

m/ Canary rockfish was declared overfished on January 4, 2000 (65 FR 221). A new assessment was completed in 2002 for canary rockfish and the stock is believed to be at 8 percent of its unfished biomass coastwide. The coastwide ABC of 272 mt is based on a Fmsy proxy of F50%. The coastwide OY of 44 mt is based on the rebuilding plan, which has a 60 percent probability of rebuilding the stock to Bmsy by the year 2076 (Tmax). The OY is reduced by 15 mt for the amount estimated to be taken in the recreational fishery, 1 mt for the amount estimated to be taken during research fishing, 2.3 mt for the amount estimated to be taken during the tribal fisheries, and 2.5 for the amount estimated to be taken in non-groundfish fisheries, resulting in a commercial OY of 23 mt. For 2003, the total catch OY has been divided with 61 percent going to the commercial fisheries and 39 percent going to the recreational fisheries. The commercial OY is divided with open access receiving 12.3 percent (2.8 mt) and limited entry receiving 87.7 percent (20 mt). The landed catch value for the open access fishery is 2.3 mt. The limited entry allocation is further reduced by 3 mt for anticipated bycatch in the offshore whiting fishery. The limited entry landed catch value is 14 mt, which is based on a discard rate of 16 percent. Specific open access/limited entry allocations have been suspended during the rebuilding period as necessary to meet the overall rebuilding target while allowing harvest of healthy stocks. Tribal vessels are estimated to land about 2.3 mt of canary rockfish in 2003, but do not have a specific allocation at this time.

n/ Chilipepper rockfish - the ABC (2,700 mt) for the Monterey-Conception area is based on the 1998 stock assessment with the application of F50% Fmsy proxy. Because the unfished biomass is believed to be above 40 percent, the default OY could be set equal the ABC. However, the OY is set at 2,000 mt to discourage effort on chilipepper, which co-occur with bocaccio rockfish. The OY is reduced by 15 mt for the amount estimated to be taken in the recreational fishery, resulting in a commercial OY of 1,985 mt. Open access is allocated 44.3 percent (879 mt) of the commercial OY and limited entry is allocated 55.7 percent (1,106 mt) of the commercial OY. The assumed discard is 16 percent, resulting in a open access landed catch value of 739 mt and a limited entry landed catch value of 929 mt.

o/ Bocaccio rockfish was assessed in 2002 and is believed to be at 3.6 percent of its unfished biomass. Bocaccio rockfish was declared overfished on March 3, 1999. The ABC of 198 mt is based on a F50% Fmsy proxy. The OY of ≤ 20 mt is based on a sustainability analysis with >80 percent probability of no further decline in spawning biomass. The OY is reduced by 0.2 mt for the amount estimated to be taken during research fishing, and 5 mt for the amount estimated to be taken in the recreational