

l/ Columbia area) used to forecast future harvest were likely overestimates, carrying the previously used ABCs and OYs forward into 2005 was considered to be conservative and based on the best available data. Research catch is estimated to be 1.7 mt and will be taken out of the OY.

l/ Arrowtooth flounder was last assessed in 1993 and was believed to be above 40 percent of its unfished biomass. Research catch is estimated to be 6.7 mt and will be taken out of the OY.

m/ Other flatfish are those species that do not have individual ABC/OYs and include butter sole, curlfin sole, flathead sole, Pacific sand dab, rex sole, rock sole, sand sole, and starry flounder. The ABC is based on historical catch levels. The ABC of 6,781 mt is based on the highest landings for sanddabs (1995) and rex sole (1982) for the 1981-2003 period and on the average landings from the 1994-1998 period for the remaining other flatfish species. The OY of 4,909 mt is based on the ABC with a 25 percent precautionary adjustment for sanddabs and rex sole and a 50 percent precautionary adjustment for the remaining species. Research catch is estimated to be 7.6 mt and will be taken out of the OY.

n/ Pacific ocean perch (POP) was declared overfished on March 3, 1999. A stock assessment was prepared in 2003 and POP was determined to be at 25 percent of its unfished biomass. The ABC of 966 mt was projected from the 2003 stock assessment and is based on an F_{MSY} proxy of $F50\%$. The OY of 447 mt is based on a 70 percent probability of rebuilding the stock to B_{MSY} by the year 2042 (T_{MAX}). The harvest control rule will be $F=0.0257$. Out of the OY it is anticipated that 3.6 mt will be taken during research activity and 129.1 mt in the commercial fishery (which is being set as a commercial HG), leaving a residual amount of 314.3 mt to be used as necessary during the fishing year.

o/ Shortbelly rockfish remains as an unexploited stock and is difficult to assess quantitatively. A 1989 stock 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 stock assessment. The OY is reduced by 6.0 mt for the amount expected to be taken during research activity, resulting in a commercial HG of 13,894.

p/ The widow rockfish stock was declared overfished on January 11, 2001 (66 FR 22338). The most recent stock assessment was prepared for widow rockfish in 2003. The spawning stock biomass is believed to be at 22.4 percent of its unfished biomass in 2002. The ABC of 3,218 mt is based on a $F50\%$ F_{MSY} proxy. The 285 mt OY is based on a 60 percent probability of rebuilding the stock to B_{MSY} by the year 2042 (T_{MAX}). The harvest control rule is $F=0.0093$. Out of the OY, it is anticipated that 0.9 mt will be taken during research activity, 2.3 mt will be taken in the recreational fishery, 0.1 mt will be taken in non-groundfish fisheries, and 281.7 mt will be taken in the commercial fishery (which is being set as the commercial HG). 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 40 mt of widow rockfish in 2005, but do not have a specific allocation at this time. The set asides of widow rockfish taken in the Pacific whiting fisheries will likely be limited to 231.8 mt.

q/ Canary rockfish was declared overfished on January 4, 2000 (65 FR 221). A stock assessment was completed in 2002 for canary rockfish and the stock was believed to be at 8 percent of its unfished biomass coastwide in 2001. The coastwide ABC of 270 mt is based on a F_{MSY} proxy of $F50\%$. The coastwide OY of