

2005. The OFL of 4,573 mt is based on the 2005 stock assessment with the F_{MSY} proxy of $F_{50\%}$. The ABC of 4,371 mt is a 4 percent reduction from the OFL ($\sigma=0.36/P^*=0.45$) as it's a category 1 species. The ACL was set equal to the ABC, because the stock is above $B_{40\%}$. A set-aside of 499 mt is deducted from the ACL for the Tribal fishery (490 mt), the incidental open access fishery (3 mt), EFP catch (2 mt) and research catch (4 mt), resulting in a fishery HG of 3,872 mt.

x/ Shortspine thornyhead. A coastwide stock assessment was conducted in 2005 and the stock was estimated to be at 63 percent of its unfished biomass in 2005. A coastwide OFL of 2,358 mt is based on the 2005 stock assessment with a $F_{50\%}$ F_{MSY} proxy. The coastwide ABC of 2,254 mt is a 4 percent reduction from the OFL ($\sigma=0.36/P^*=0.45$) as it's a category 1 species. For the portion of the stock that is north of $34^{\circ}27'$ N. lat., the ACL is 1,556 mt, 66 percent of the coastwide OFL. A set-aside of 145 mt is deducted from the ACL for the Tribal fishery (38 mt), the incidental open access fishery (2 mt), and research catch (5 mt), resulting in a fishery HG of 1,511 mt for the area north of $34^{\circ}27'$ N. lat. For that portion of the stock south of north of $34^{\circ}27'$ N. lat. the ACL is 401 mt which is 34 percent of the coastwide OFL for the portion of the biomass found south of $34^{\circ}27'$ N. lat reduced by 50 percent as a precautionary adjustment. A set-aside of 42 mt is deducted from the ACL for the incidental open access fishery (41 mt), and research catch (1 mt), resulting in a fishery HG of 359 mt for the area south of $34^{\circ}27'$ N. lat. The sum of the northern and southern area ACLs (1,957 mt) is a 13 percent reduction from the coastwide ABC.

y/ Longspine thornyhead. A coastwide stock assessment was conducted in 2005 and the stock was estimated to be at 71 percent of its unfished biomass in 2005. A coastwide OFL of 3,483 mt is based on the 2005 stock assessment with a $F_{50\%}$ F_{MSY} proxy. The ABC of 2,902 mt is a 17 percent reduction from the OFL ($\sigma=0.72/P^*=0.40$) as it's a category 2 species. For the portion of the stock that is north of $34^{\circ}27'$ N. lat., the ACL is 2,064 mt, and is 79 percent of the coastwide OFL for the biomass in that area. A set-aside of 44 mt is deducted from the ACL for the Tribal fishery (30 mt), the incidental open access fishery (1 mt), and research catch (13 mt), resulting in a fishery HG of 2,020 mt. For that portion of the stock south of $34^{\circ}27'$ N. lat. the ACL is 366 mt and is 21 percent of the coastwide OFL reduced by 50 percent as a precautionary adjustment. A set-aside of 3 mt is deducted from the ACL for the incidental open access fishery (2 mt), and research catch (1 mt), resulting in a fishery HG of 363 mt. The sum of the northern and southern area ACLs (2,430 mt) is a 16 percent reduction from the coastwide ABC.

z/ Cowcod. A stock assessment update was prepared in 2009 and the stock was estimated to be 5 percent bounded between 4 and 21 percent of its unfished biomass in 2009. The OFLs for the Monterey and Conception areas were summed to derive the south of $40^{\circ}10'$ N. lat. OFL of 13 mt. The ABC for the area south of $40^{\circ}10'$ N. lat. is 10 mt. The assessed portion of the stock in the Conception Area was considered category 2, with a Conception Area contribution to the ABC of 5 mt, which is a 17 percent reduction from the OFL ($\sigma=0.72/P^*=0.35$). The unassessed portion of the stock in the Monterey area was considered a category 3 stock, with a contribution to the ABC of 5 mt, which is a 29 percent reduction from the OFL ($\sigma=1.44/P^*=0.40$). A single ACL of 3 mt is being set for both areas combined. The ACL of 3 mt is based on a rebuilding plan with