

California MLPA Master Plan Science Advisory Team

Summary of Biomass and Fishery Yield for Round 3 SCRSG MPA Proposals Developed by the Science Advisory Team Modeling Workgroup October 13, 2009

Table 3a. Conservation value (biomass) and economic value (fishery yield) for 8 species under three management scenarios (unsuccessful, maximum sustainable yield (MSY)-type, and conservative management). Results were generated from the University of California, Santa Barbara (UCSB) bioeconomic model with the original fleet model described in Chapter 8 of the *Draft Methods to Evaluate Marine Protected Areas in the South Coast Study Region*.

	Unsuccessful Management	MSY-type Management	Conservative Management
Conservation Value (Biomass)			
Proposal 0	0.1119	0.4240	0.5985
Proposal 1	0.1557	0.4503	0.6152
Proposal 2	0.1433	0.4433	0.6108
Proposal 3	0.1913	0.4721	0.6295
Economic Value (Fishery Yield)			
Proposal 0	0.4319	1	0.8939
Proposal 1	0.4855	0.9687	0.8637
Proposal 2	0.4767	0.9767	0.8704
Proposal 3	0.5359	0.9488	0.8402

Table 3b. Conservation value (biomass) and economic value (fishery yield) for 8 species under three management scenarios (unsuccessful, maximum sustainable yield (MSY)-type, and conservative management). Results were generated from the University of California, Santa Barbara (UCSB) bioeconomic model with the revised fleet model described in Chapter 8 of the *Draft Methods to Evaluate Marine Protected Areas in the South Coast Study Region*.

	Unsuccessful Management	MSY-type Management	Conservative Management
Conservation Value (Biomass)			
Proposal 0	0.3129	0.5913	0.7302
Proposal 1	0.3559	0.6094	0.7409
Proposal 2	0.3436	0.6047	0.738
Proposal 3	0.3842	0.6239	0.7492
Economic Value (Fishery Yield)			
Proposal 0	0.3151	1	0.8746
Proposal 1	0.2943	0.9293	0.8243
Proposal 2	0.3110	0.9531	0.8388
Proposal 3	0.3283	0.9066	0.8014

Table 3c. Conservation value (biomass) and economic value (fishery yield) for 8 species under three management scenarios (unsuccessful, maximum sustainable yield (MSY)-type, and conservative management). Results were generated from the University of California, Davis (UCD) bioeconomic model with the original fleet model described in Chapter 8 of the *Draft Methods to Evaluate Marine Protected Areas in the South Coast Study Region*.

	Unsuccessful Management	MSY-type Management	Conservative Management
Conservation Value (Biomass)			
Proposal 0	0.0846	0.3747	0.6448
Proposal 1	0.1329	0.4021	0.6554
Proposal 2	0.1185	0.3938	0.6516
Proposal 3	0.1667	0.4243	0.6662
Economic Value (Fishery Yield)			
Proposal 0	0.3145	0.9115	0.7758
Proposal 1	0.3994	0.8790	0.7486
Proposal 2	0.3810	0.8873	0.7562
Proposal 3	0.4626	0.8722	0.7344

Table 3d. Conservation value (biomass) and economic value (fishery yield) for 8 species under three management scenarios (unsuccessful, maximum sustainable yield (MSY)-type, and conservative management). Results were generated from the University of California, Davis (UCD) bioeconomic model with the revised fleet model described in Chapter 8 of the *Draft Methods to Evaluate Marine Protected Areas in the South Coast Study Region*.

	Unsuccessful Management	MSY-type Management	Conservative Management
Conservation Value (Biomass)			
Proposal 0	0.0947	0.4942	0.7605
Proposal 1	0.1431	0.5157	0.7675
Proposal 2	0.1289	0.5099	0.7656
Proposal 3	0.1785	0.5336	0.7745
Economic Value (Fishery Yield)			
Proposal 0	0.4102	1.0639	0.6778
Proposal 1	0.4943	1.0201	0.6551
Proposal 2	0.4768	1.0327	0.6613
Proposal 3	0.5671	1.0034	0.6428