

Marine Life Protection Act Initiative



Summary of Potential Impacts of the May 2009 (Round 2) South Coast MPA Proposals on Commercial and Recreational Fisheries

Presentation to the MLPA Blue Ribbon Task Force
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Outline

- **Commercial Fisheries**
 - Overview
 - Potential impacts on fishing grounds (area and value)
 - Potential net economic impacts
- **Commercial Passenger Fishing Vehicle (CPFV) Fisheries**
 - Overview
 - Potential impacts on fishing grounds (area and value)
 - Potential net economic impacts
- **Recreational Fisheries**
 - Overview
 - Potential impacts on fishing grounds (area and value)
- **Convergence between Proposals**
- **Additional Analyses and Next Steps**



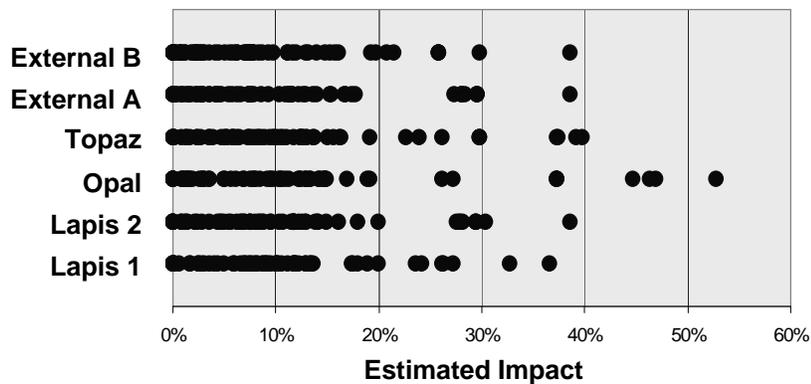
Commercial Overview

- **Data and Analyses**
 - Data collected from stratified, representative sample of 254 commercial fishermen
 - Focused on 15 fisheries, not on regional multipliers of economic output
 - Results reported at study region and port level (Santa Barbara, Ventura, Port Hueneme, San Pedro, Dana Point, Oceanside and San Diego)
 - Considered 65 port-fishery combinations
- **Results**
 - Percentage area of fishing grounds affected
 - Percentage value of fishing grounds affected
 - Potential annual economic impact (both as a dollar value and a percentage – net and gross)



Impacts on Fishing Grounds (Commercial)

- In terms of total value, the majority of proposals have less than 20% potential impact on most port-fishery combinations



Note: Similar analysis for total area shows that the majority of proposals have less than 20% potential impact on most port-fishery combinations.



Impacts on Fishing Grounds (Commercial)

- Potential impacts on total value comparing 65 port-fishery combination

	Lapis 1	Lapis 2	Opal	Topaz	Ext. A	Ext. B
Least Potential Impact	18	13	11	8	14	25
Greatest Potential Impact	18	3	22	22	10	8

Note: Rows may not sum to 65 because in some cases multiple proposals have the same least or greatest impact (and are therefore counted twice)

For potential impacts on total area, please see the Appendix of the evaluation summary report



Net Economic Impacts (Commercial)

- Lowest impact in each row is in bold

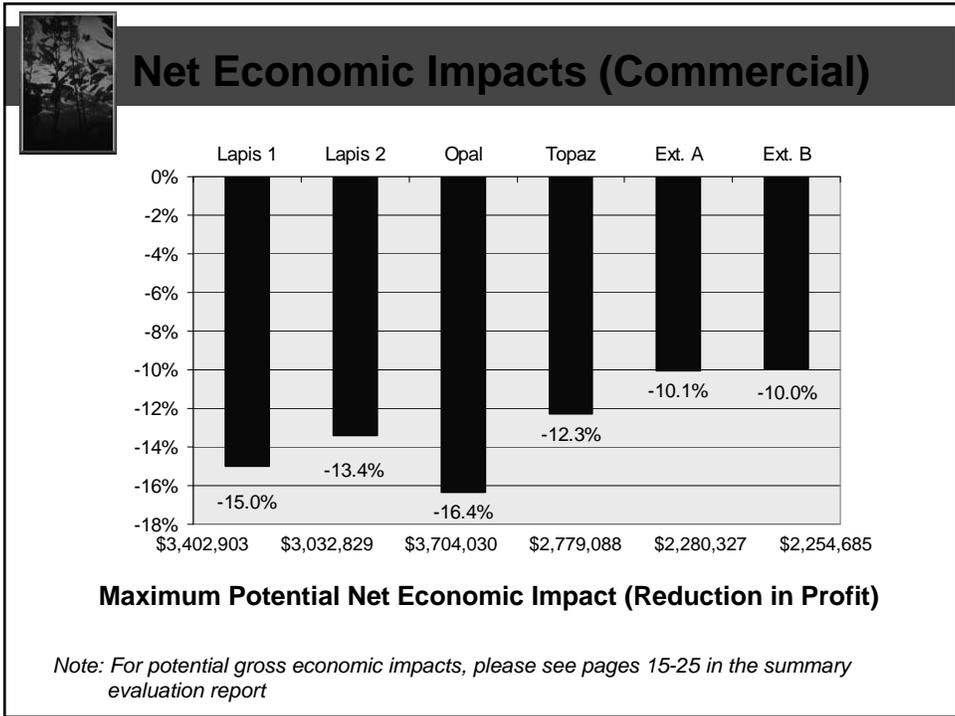
Port	C.I. MPAs	Lapis 1	Lapis 2	Opal	Topaz	Ext. A	Ext. B
	\$ Reduction in Profit	\$ Reduction in Profit					
Santa Barbara	\$256,224	\$392,181	\$385,250	\$399,092	\$455,919	\$376,862	\$341,738
Ventura	\$86,604	\$290,770	\$269,787	\$373,115	\$157,866	\$138,909	\$140,479
Port Hueneme	\$306,853	\$793,561	\$727,657	\$916,663	\$585,911	\$519,553	\$533,200
San Pedro	\$227,858	\$1,156,759	\$1,093,810	\$1,234,148	\$913,877	\$753,777	\$758,301
Dana Point	\$2,458	\$154,059	\$164,905	\$240,326	\$219,057	\$111,231	\$131,268
Oceanside	\$1,146	\$113,926	\$116,159	\$158,889	\$138,688	\$120,863	\$104,665
San Diego	\$168	\$501,648	\$275,261	\$381,796	\$307,771	\$259,132	\$245,033
Study Region	\$881,311	\$3,402,903	\$3,032,829	\$3,704,030	\$2,779,088	\$2,280,327	\$2,254,685
	% Reduction in Profit	% Reduction in Profit					
Santa Barbara	7.5%	12.5%	12.3%	12.7%	14.5%	12.0%	10.9%
Ventura	3.9%	13.0%	12.1%	16.7%	7.1%	6.2%	6.3%
Port Hueneme	6.1%	15.7%	14.4%	18.1%	11.6%	10.3%	10.6%
San Pedro	2.5%	12.6%	12.0%	13.5%	10.0%	8.2%	8.3%
Dana Point	0.3%	16.5%	17.7%	25.7%	23.5%	11.9%	14.1%
Oceanside	0.2%	22.5%	23.0%	31.4%	27.4%	23.9%	20.7%
San Diego	0.0%	30.8%	16.9%	23.4%	18.9%	15.9%	15.0%
Study Region	3.8%	15.0%	13.4%	16.4%	12.3%	10.1%	10.0%

Net Economic Impacts (Commercial)

- **Lowest impact in each row (reported at the study region level) is in bold**

Fishery	C.J. MPAs	Lapis 1	Lapis 2	Opal	Topaz	Ext. A	Ext. B
	% Reduction in Profit	% Reduction in Profit					
Ca. Halibut (Hook & Line)	9.3%	18.4%	22.1%	19.7%	23.9%	22.4%	16.2%
Coastal Pelagics	0.8%	8.9%	7.9%	6.9%	7.5%	4.2%	3.4%
Lobster	1.6%	17.9%	12.9%	15.7%	16.4%	12.1%	13.0%
N. Fishery (Hook & Line)	11.1%	22.9%	23.0%	21.7%	24.9%	20.5%	11.4%
N. Fishery (Trap)	0.7%	16.0%	13.5%	11.6%	12.7%	9.4%	10.1%
Rock Crab	4.0%	10.8%	10.7%	10.7%	11.8%	10.1%	8.1%
Sablefish	0.0%	21.9%	54.5%	68.9%	55.0%	54.6%	47.8%
Sea Cucumber (Diving)	13.0%	23.5%	21.8%	22.6%	25.2%	22.7%	23.4%
Spot Prawn	9.9%	17.8%	17.9%	19.2%	18.7%	17.0%	17.7%
Squid	3.7%	14.7%	13.6%	17.8%	8.4%	7.3%	7.7%
Swordfish	2.1%	9.7%	9.9%	24.2%	12.3%	9.8%	9.6%
Thornyhead	0.0%	41.6%	46.0%	75.2%	63.4%	46.3%	33.0%
Urchin	6.6%	14.6%	11.7%	13.3%	13.0%	11.7%	11.6%
All Fisheries	3.9%	15.0%	13.4%	16.4%	12.3%	10.1%	10.0%

Note: For dollar values, please see Table 10 in the evaluation summary report





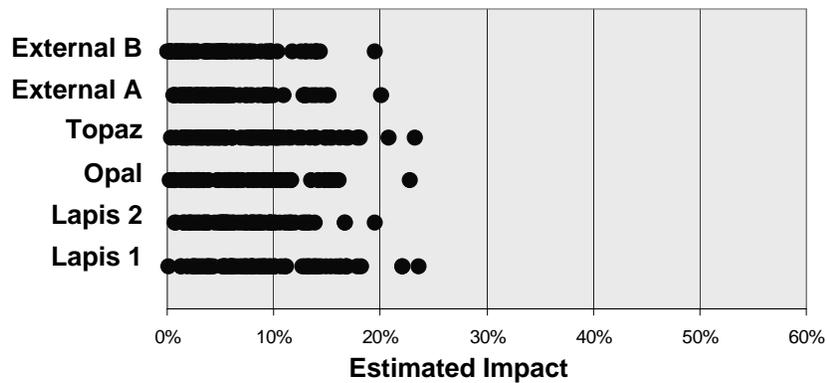
CPFV Overview

- **Data and Analyses**
 - Data collected from stratified, solicited sample of 119 CPFV fishermen
 - Focused on 10 species
 - Results reported at study region and port level (Santa Barbara, Port Hueneme/Channel Islands Harbor, Santa Monica, San Pedro/Long Beach, Newport Beach, Dana Point, Oceanside, and San Diego)
 - Considered 80 port-fishery combinations
- **Results**
 - Percentage area of fishing grounds affected
 - Percentage value of fishing grounds affected
 - Potential annual net economic impact



Impacts on Fishing Grounds (CPFV)

- In terms of total value, the majority of proposals have less than 20% potential impact on most port-fishery combinations



Note: Similar analysis for total area shows that the majority of proposals have less than 20% potential impact on most port-fishery combinations.



Impacts on Fishing Grounds (CPFV)

- Relative potential impacts on total value comparing 80 port-fishery combinations

	Lapis 1	Lapis 2	Opal	Topaz	Ext. A	Ext. B
Least Potential Impact	8	13	6	0	23	33
Greatest Potential Impact	37	5	8	29	1	1

Note: Rows may not sum to 80 because in some cases multiple proposals have the same least or greatest impact (and are therefore counted twice).

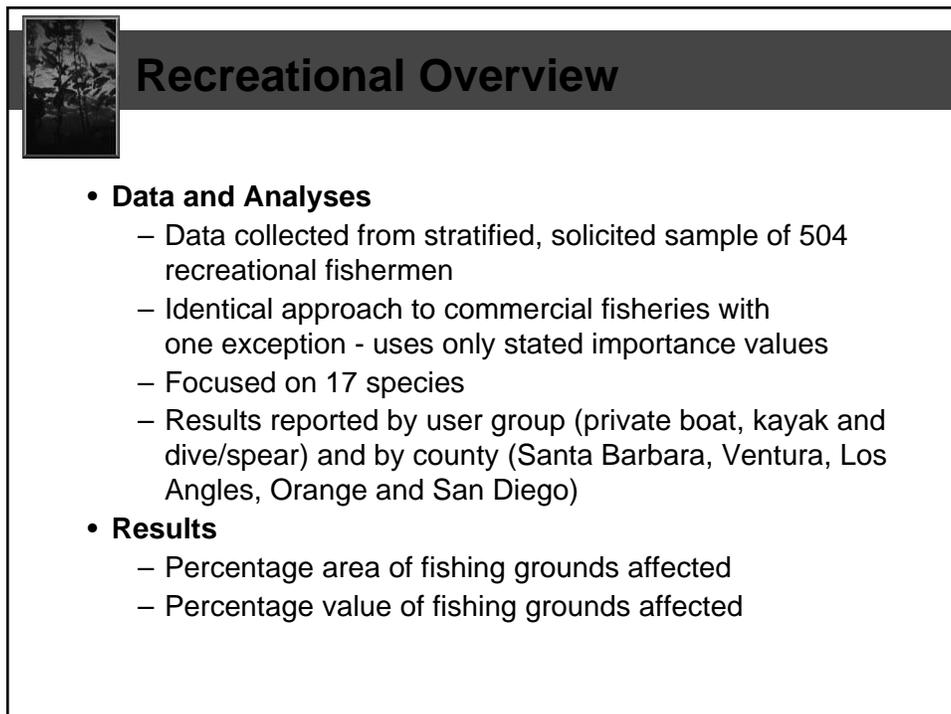
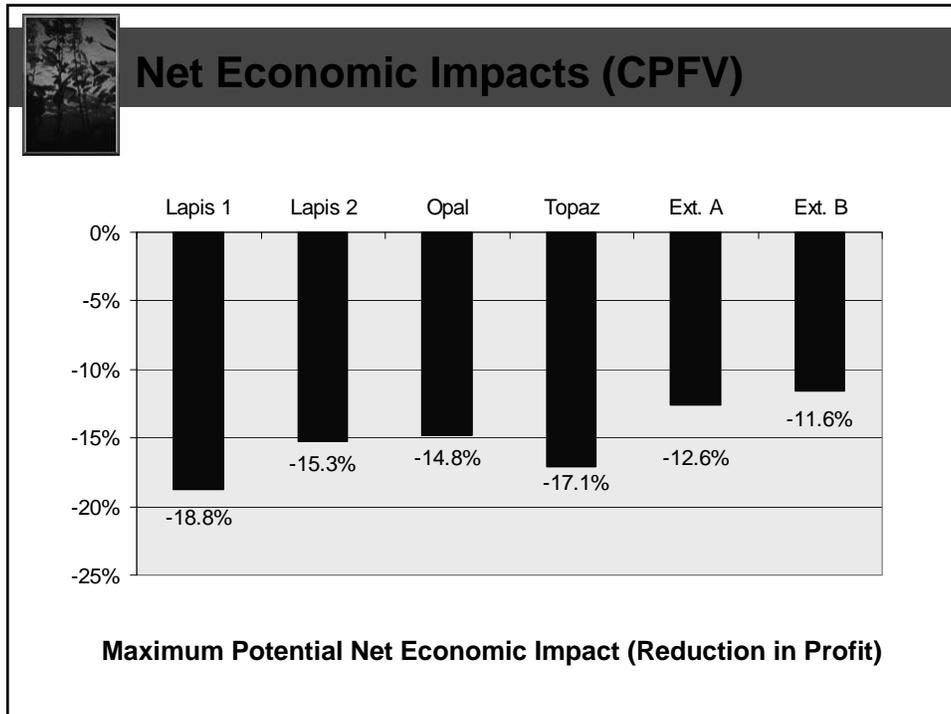
For potential impacts on total area, please see the Appendix of the evaluation summary report



Net Economic Impacts (CPFV)

- Lowest impact in each row is in bold

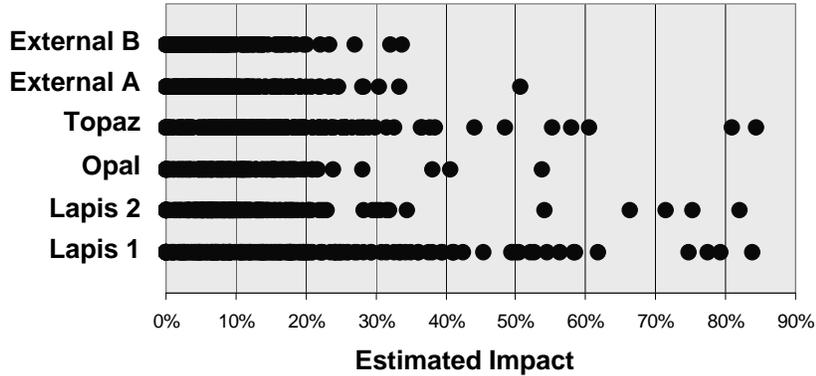
Fishery	C.I. MPAs	Lapis 1	Lapis 2	Opal	Topaz	Ext. A	Ext. B
	% Reduction in Profit	% Reduction in Profit					
Santa Barbara	7.5%	13.5%	13.5%	15.0%	16.8%	12.7%	10.6%
Port Hueneme / Channel Islands Harbor	11.8%	27.0%	19.3%	25.9%	28.2%	24.2%	23.0%
Santa Monica	0.0%	16.0%	9.1%	4.0%	7.8%	8.5%	1.3%
San Pedro / Long Beach	0.0%	5.4%	7.3%	7.5%	6.4%	5.6%	6.4%
Newport Beach	0.0%	16.4%	13.9%	9.2%	13.7%	5.8%	7.0%
Dana Point	0.0%	29.0%	27.9%	11.0%	20.4%	10.7%	12.1%
Oceanside	0.0%	13.1%	12.7%	15.2%	16.7%	12.3%	11.7%
San Diego	2.1%	45.7%	27.7%	35.8%	31.7%	23.8%	22.4%
Study Region	3.0%	18.8%	15.3%	14.8%	17.1%	12.6%	11.6%





Impacts on Fishing Grounds (Recreational)

- In terms of total value, the majority of proposals have less than 30% potential impact on most port-fishery combinations

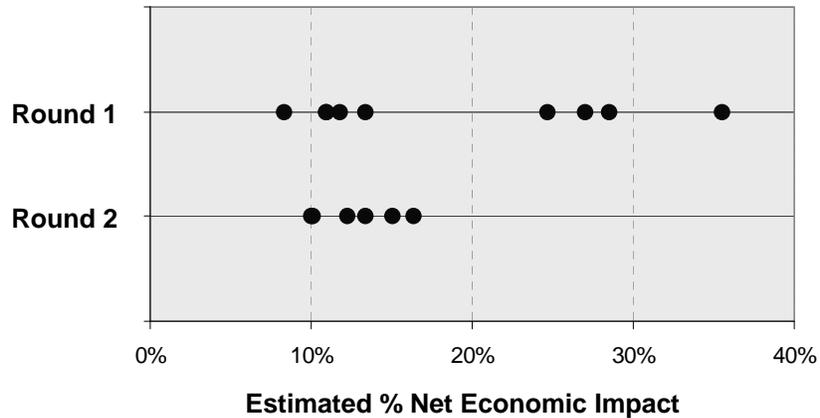


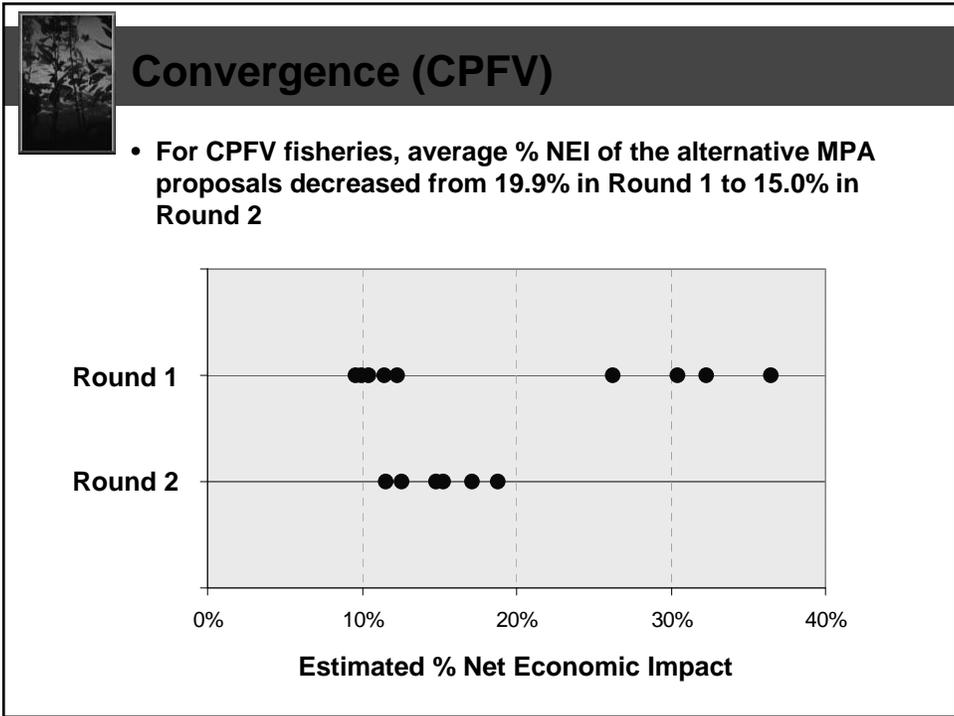
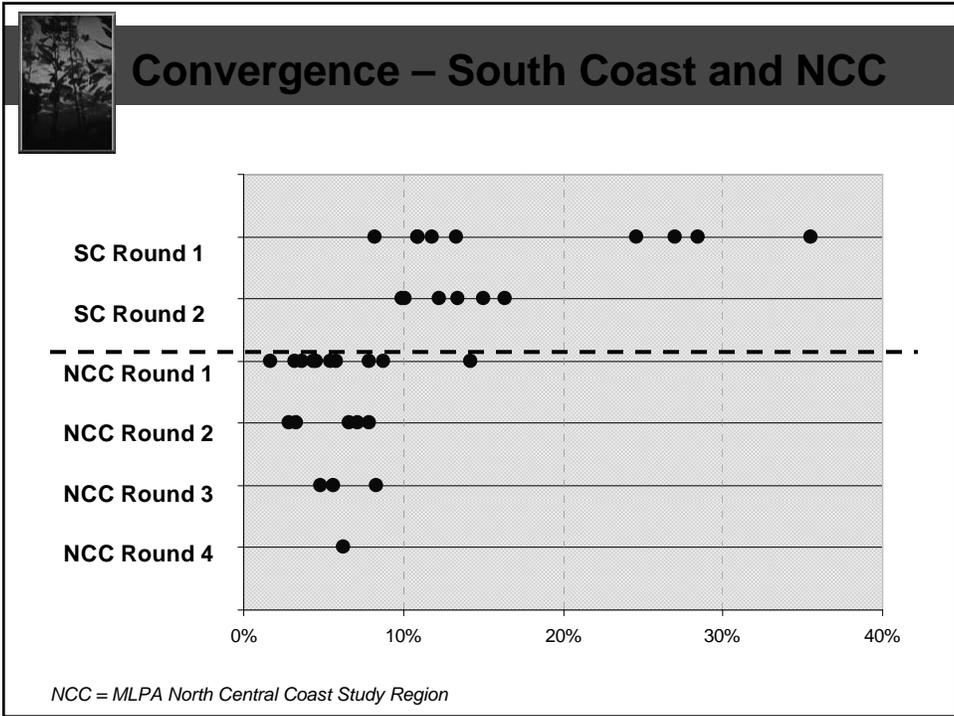
- Similar analysis for total area shows that the majority of proposals have less than 20% potential impact on most port-fishery combinations



Convergence (Commercial)

- For commercial fisheries, average % net economic impact (NEI) of the alternative MPA proposals decreased from 19.0% in Round 1 to 12.8% in Round 2







Convergence (Recreational)

- Results are reported for the top four target species for each user group in San Diego County

Sector	Fishery	Average % impact on value (stated importance)			Std. Dev.			Range		
		Round 1	Round 2	Change	Round 1	Round 2	Change	Round 1	Round 2	Change
Dive	Ca. Halibut	23.6%	18.4%	-5.2%	24.8%	13.6%	-11.2%	55.1%	34.5%	-20.7%
	Lobster	20.6%	15.7%	-4.9%	20.5%	9.5%	-10.9%	47.0%	25.2%	-21.7%
	White Seabass	21.4%	13.5%	-8.0%	24.6%	9.5%	-15.1%	54.5%	25.8%	-28.8%
	Yellowtail	16.1%	9.4%	-6.7%	17.8%	5.1%	-12.7%	40.1%	13.6%	-26.5%
Kayak	Ca. Halibut	22.4%	14.2%	-8.2%	20.7%	8.8%	-11.9%	45.8%	22.5%	-23.3%
	Calico Bass	28.3%	16.3%	-12.1%	32.8%	17.9%	-14.9%	72.1%	46.0%	-26.1%
	White Seabass	31.8%	12.5%	-19.3%	37.4%	18.3%	-19.1%	81.5%	46.8%	-34.7%
	Yellowtail	31.1%	11.9%	-19.1%	35.0%	14.4%	-20.5%	75.4%	37.4%	-38.1%
Private Vessel	Ca. Halibut	9.8%	6.9%	-2.9%	7.8%	2.0%	-5.8%	18.8%	4.8%	-14.0%
	Calico Bass	15.6%	14.6%	-1.0%	16.7%	6.2%	-10.5%	38.9%	16.7%	-22.2%
	Sand Bass	9.9%	4.9%	-4.9%	10.7%	2.9%	-7.8%	23.3%	6.2%	-17.1%
	White Seabass	17.4%	10.4%	-7.0%	18.5%	5.6%	-12.9%	42.8%	16.6%	-26.1%



Additional Analyses and Next Steps

- **All Results for Round 2 Finalized and Available**
 - Summary report (including comments and suggestions provided by regional stakeholder group members)
 - Results summarized per MPA (Excel spreadsheet)
 - The above to be used in combination with the maps, data collection methods, and evaluation methods already provided
- **Analyses for Subsequent Iterations**
 - Consideration of existing fishing closures
- **Next Steps**
 - Round 3 of analysis for MLPA South Coast Study Region