

Marine Life Protection Act Initiative



Summary of Potential Impacts of Round 1 Draft MPA Arrays and MPA Proposals on Commercial and Recreational Fisheries

Presentation to the MLPA Master Plan Science Advisory Team
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Outline

- **Previous information**
 - Survey methods, evaluation methods, and maps
- **Commercial fisheries**
 - Overview
 - Potential impacts on fishing grounds
 - Potential net economic impacts
- **Commercial passenger fishing vessel (CPFV) fisheries**
 - Overview
 - Potential impacts on fishing grounds
 - Potential net economic impacts
- **Recreational fisheries**
 - Overview
 - Potential impacts on fishing grounds
- **Additional analyses and next steps**



Commercial Overview

- **Data and Analyses**
 - Data collected from stratified, representative sample of 254 commercial fishermen
 - Focused on 15 fisheries
 - Results reported at study region and port level (Santa Barbara, Ventura, Port Hueneme, San Pedro, Dana Point, Oceanside and San Diego)
- **Results**
 - Percentage total area of fishing grounds affected
 - Percentage total value of fishing grounds affected
 - Potential annual economic impact (both as a dollar value and a percentage)

Potential Impact on Commercial Fisheries

- Assessed for total fishing grounds and total value of fishing grounds (see Tables A.1 and A.2)
- Example: Percentage Area of Total Commercial Fishing Grounds for Santa Barbara

Fishery	Ext. A	Ext. B	Ext. C	Lapis A	Lapis B	Opal A	Opal B	Topaz A	Topaz B
Ca. Halibut (H & L)	5.7%	12.4%	34.4%	13.1%	25.2%	15.8%	30.1%	29.5%	17.8%
Ca. Halibut (Trawl)	1.8%	3.0%	8.6%	1.9%	7.5%	2.6%	7.7%	6.1%	4.9%
Coastal Pelagics	—	—	—	—	—	—	—	—	—
Live Bait	—	—	—	—	—	—	—	—	—
Lobster	7.1%	12.1%	30.0%	11.7%	20.7%	11.8%	26.5%	25.3%	14.1%
N. Fishery (H & L)	11.5%	13.0%	27.8%	13.1%	19.2%	13.3%	25.9%	24.7%	15.2%
N. Fishery (Trap)	6.0%	15.4%	42.0%	14.0%	16.9%	14.5%	34.9%	30.8%	14.2%
Rock Crab	5.8%	6.8%	23.2%	6.7%	15.7%	6.8%	21.1%	18.3%	10.4%
Sablefish	—	—	—	—	—	—	—	—	—
Sea Cucumber (Diving)	11.8%	14.9%	33.4%	13.7%	21.8%	14.0%	32.6%	30.2%	16.8%
Sea Cucumber (Trawl)	1.0%	1.1%	8.1%	0.9%	6.9%	1.0%	7.6%	6.4%	2.3%
Spot Prawn	2.5%	2.3%	8.8%	2.3%	8.7%	2.4%	10.7%	8.7%	12.5%
Squid	—	—	—	—	—	—	—	—	—
Swordfish	—	—	—	—	—	—	—	—	—
Thornyhead	—	—	—	—	—	—	—	—	—
Urchin	10.5%	11.6%	32.2%	11.9%	22.1%	13.2%	25.8%	25.7%	14.0%



Potential Net Economic Impacts (Commercial)

\$ Reduction in Profit Under MPA Proposals

Port	Ext. A	Ext. B	Ext. C	Lapis A	Lapis B	Opal A	Opal B	Topaz A	Topaz B
Santa Barbara	\$356,202	\$396,749	\$937,629	\$382,130	\$655,037	\$396,292	\$822,907	\$799,678	\$437,639
Ventura	\$147,393	\$356,080	\$761,440	\$224,731	\$498,379	\$197,262	\$603,485	\$642,729	\$239,263
Port Hueneme	\$508,407	\$847,584	\$1,730,187	\$633,820	\$1,207,952	\$627,632	\$1,367,295	\$1,398,006	\$685,802
San Pedro	\$654,123	\$1,083,588	\$2,868,642	\$904,255	\$2,048,895	\$941,633	\$2,212,678	\$2,282,786	\$923,803
Dana Point	\$65,067	\$170,066	\$502,815	\$148,397	\$360,711	\$162,590	\$448,679	\$335,083	\$169,373
Oceanside	\$68,847	\$96,888	\$287,830	\$108,512	\$292,460	\$82,633	\$200,170	\$122,966	\$115,227
San Diego	\$94,393	\$107,458	\$1,030,237	\$95,728	\$568,651	\$95,636	\$854,223	\$595,707	\$120,985
Study Region	\$1,894,432	\$3,058,414	\$8,118,779	\$2,497,573	\$5,632,084	\$2,503,677	\$6,509,436	\$6,176,954	\$2,692,091

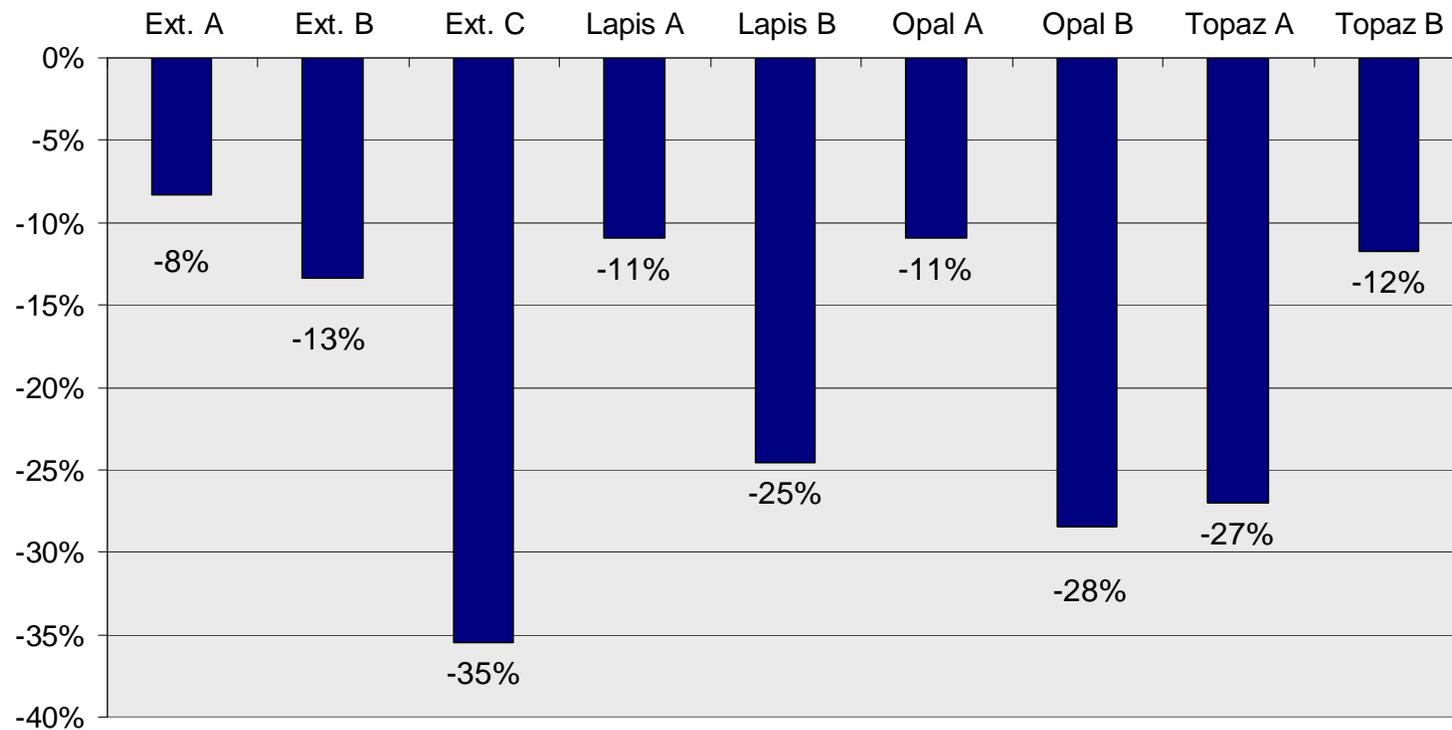
% Reduction in Profit Under MPA Proposals

Port	Ext. A	Ext. B	Ext. C	Lapis A	Lapis B	Opal A	Opal B	Topaz A	Topaz B
Santa Barbara	10.5%	11.7%	27.6%	11.2%	19.3%	11.7%	24.2%	23.5%	12.9%
Ventura	6.6%	15.9%	34.1%	10.1%	22.3%	8.8%	27.0%	28.8%	10.7%
Port Hueneme	10.1%	16.8%	34.2%	12.5%	23.9%	12.4%	27.1%	27.7%	13.6%
San Pedro	7.1%	11.8%	31.3%	9.9%	22.4%	10.3%	24.2%	24.9%	10.1%
Dana Point	7.0%	18.2%	53.8%	15.9%	38.6%	17.4%	48.0%	35.9%	18.1%
Oceanside	13.6%	19.2%	56.9%	21.5%	57.9%	16.3%	39.6%	24.3%	22.8%
San Diego	5.8%	6.6%	63.2%	5.9%	34.9%	5.9%	52.4%	36.5%	7.4%
Study Region	8.3%	13.4%	35.4%	10.9%	24.6%	10.9%	28.4%	27.0%	11.8%



Potential Net Economic Impacts (Commercial)

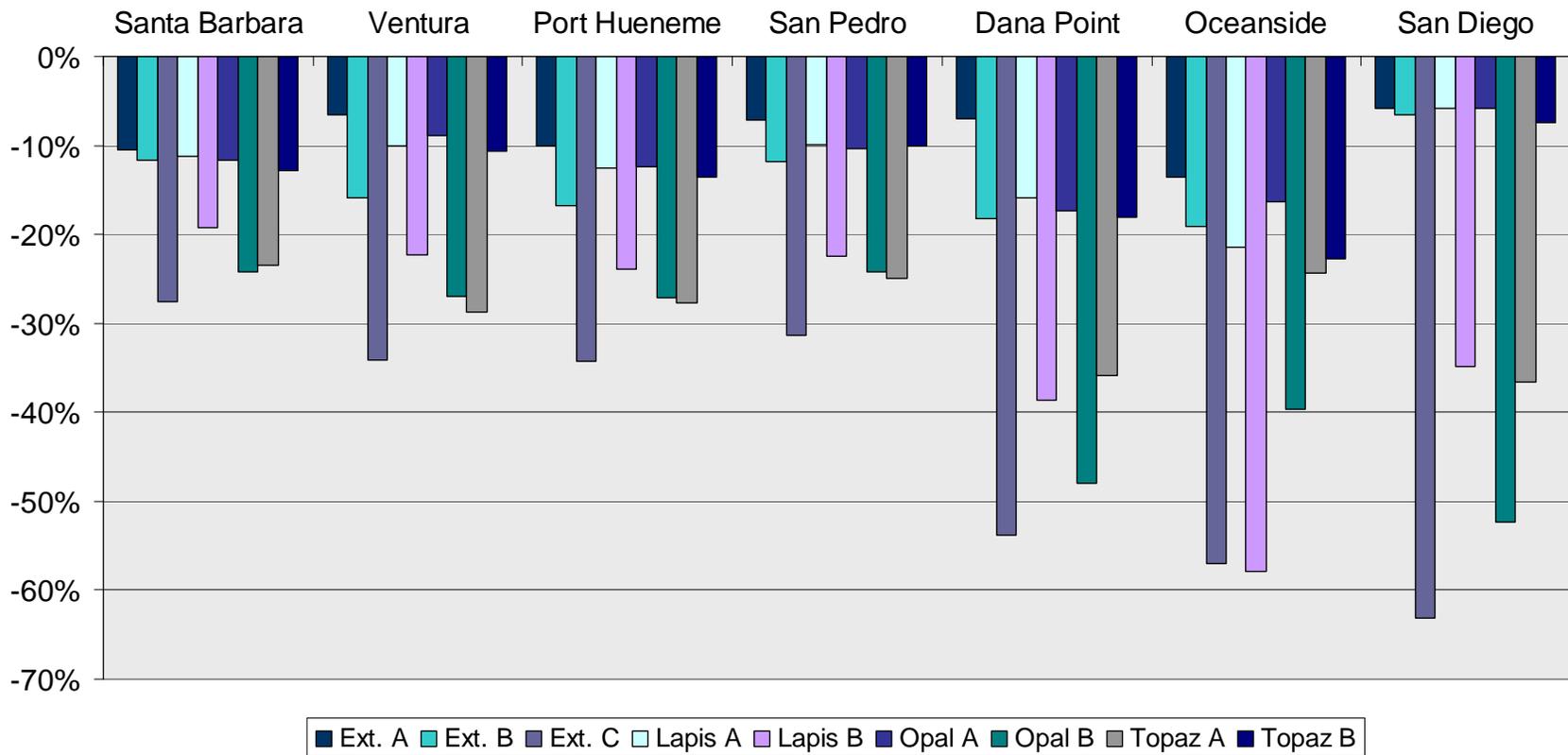
Estimated Annual Net Economic Impact by Proposal
(% Reduction in Profit)





Potential Net Economic Impacts (Commercial)

Estimated Annual Net Economic Impact by Port (% Reduction in Profit)





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)
- **Results**
 - Percentage Area of Fishing Grounds Affected
 - Percentage Value of Fishing Grounds Affected
 - Estimated Annual Net Economic Impact



Potential Impact on CPFV Fisheries

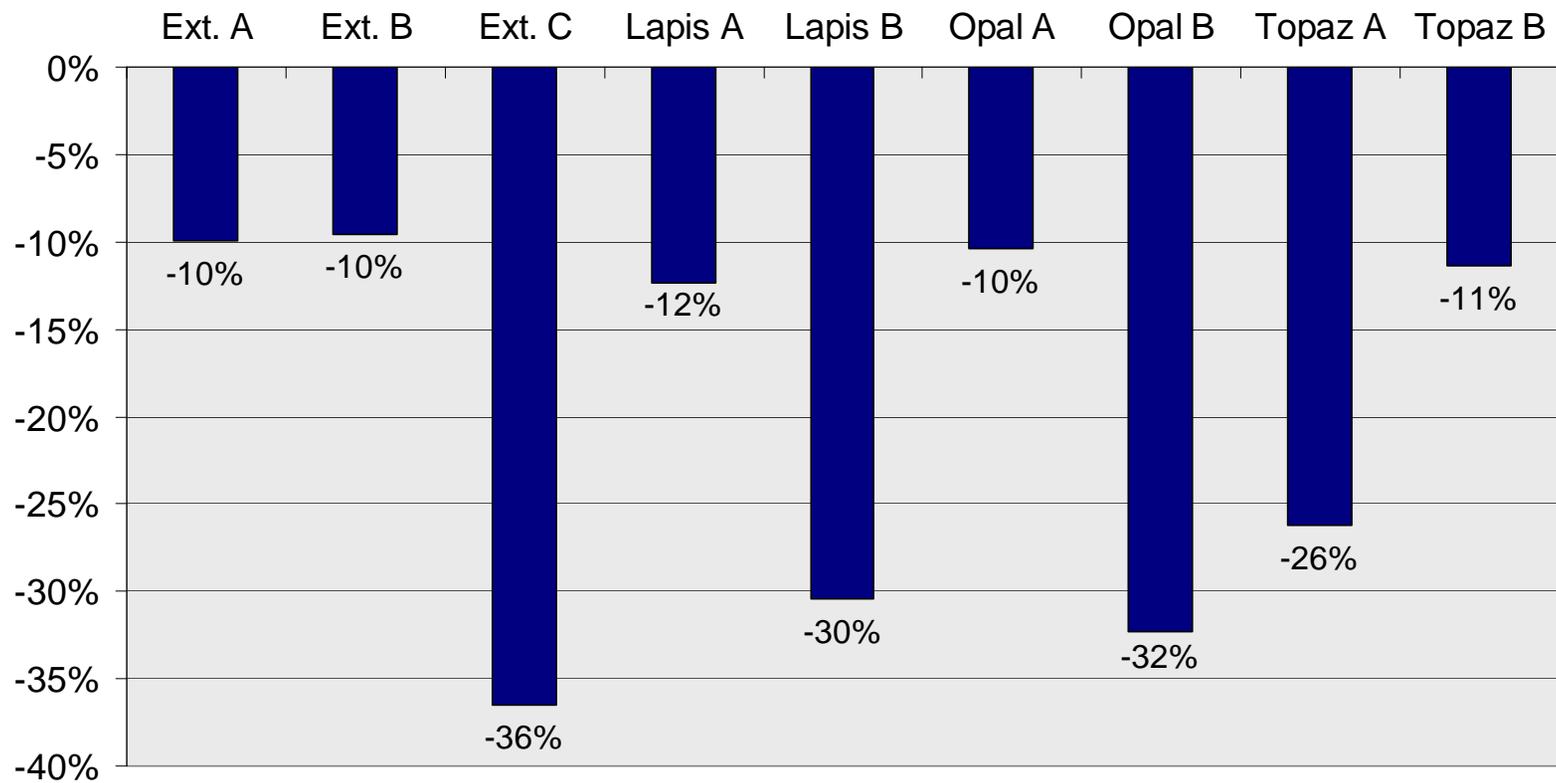
- Assessed for total fishing grounds and total value of fishing grounds (see Tables A.3 and A.4)
- Example: Potential impacts on total value under Lapis A (3 of 8 ports analyzed)

Fishery	Santa Barbara	Port Hueneme / Channel Islands	Santa Monica
Barracuda	2.7%	8.5%	5.0%
Ca. Halibut	6.8%	16.5%	5.3%
Calico Bass	2.7%	9.3%	4.1%
Lingcod	6.4%	12.9%	1.9%
Rockfish	5.0%	13.9%	3.3%
Ca. Scorpionfish	3.7%	9.9%	0.4%
Ca. Sheephead	6.6%	11.6%	2.5%
Sand Bass	2.1%	1.4%	1.5%
Whitefish	9.1%	10.2%	2.6%
White Seabass	5.1%	11.5%	5.0%



Potential Economic Impacts (CPFV)

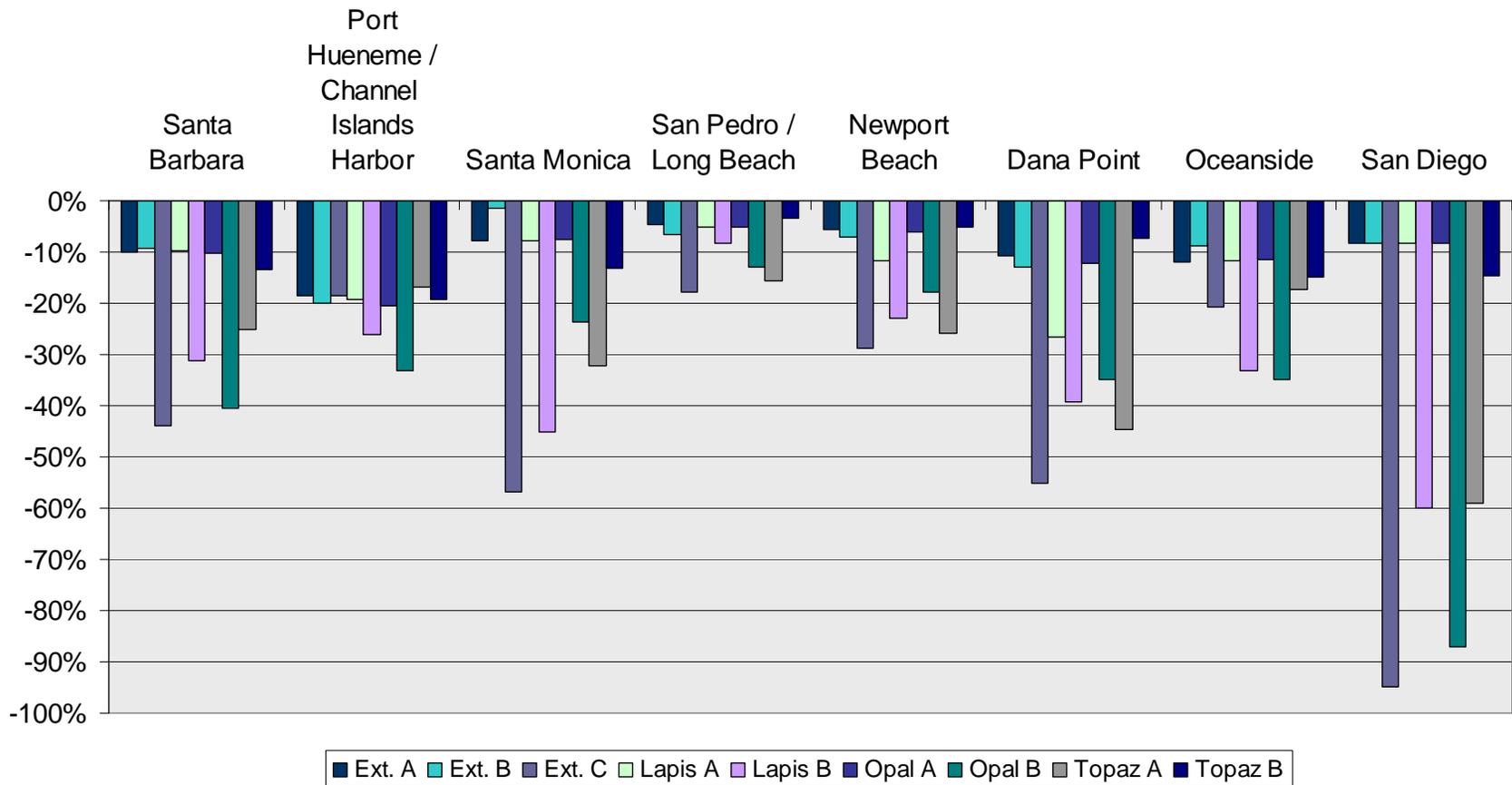
Estimated Annual Net Economic Impact by Proposal
(% Reduction in Profit)





Potential Economic Impacts (CPFV)

Estimated Annual Net Economic Impact by Port
(% Reduction in Profit)





Recreational Overview

- **Data and Analyses**
 - Data collected from stratified, solicited sample of 504 recreational fishermen
 - Focused on 17 species
 - Results reported by user group (private boat, kayak, and dive/spear) and by county (Santa Barbara, Ventura, Los Angeles, Orange, and San Diego)
- **Results**
 - Percentage Area of Fishing Grounds Affected
 - Percentage Value of Fishing Grounds Affected

Potential Impact on Recreational Fisheries

- Assessed for total fishing grounds and total value of fishing grounds (see Tables A.5-A.22)
- Example: Potential impacts of Ext. A on 2/17 recreational species

County	Sector	Total Area		Total Value	
		Barracuda	Bonito	Barracuda	Bonito
Santa Barbara	Dive	—	—	—	—
	Kayak	—	—	—	—
	Private Vessel	0.0%	—	0.0%	—
Ventura	Dive	0.0%	—	0.0%	—
	Kayak	14.5%	—	13.9%	—
	Private Vessel	6.3%	11.9%	6.2%	1.2%
Los Angeles	Dive	21.0%	29.8%	25.0%	17.8%
	Kayak	7.7%	2.4%	6.0%	2.6%
	Private Vessel	3.1%	3.1%	3.7%	3.7%
Orange	Dive	—	0.3%	—	0.4%
	Kayak	1.7%	2.3%	0.4%	5.6%
	Private Vessel	2.9%	1.8%	4.0%	2.6%
San Diego	Dive	1.3%	1.7%	0.6%	0.8%
	Kayak	2.2%	9.1%	3.5%	3.4%
	Private Vessel	2.9%	1.2%	0.7%	0.3%



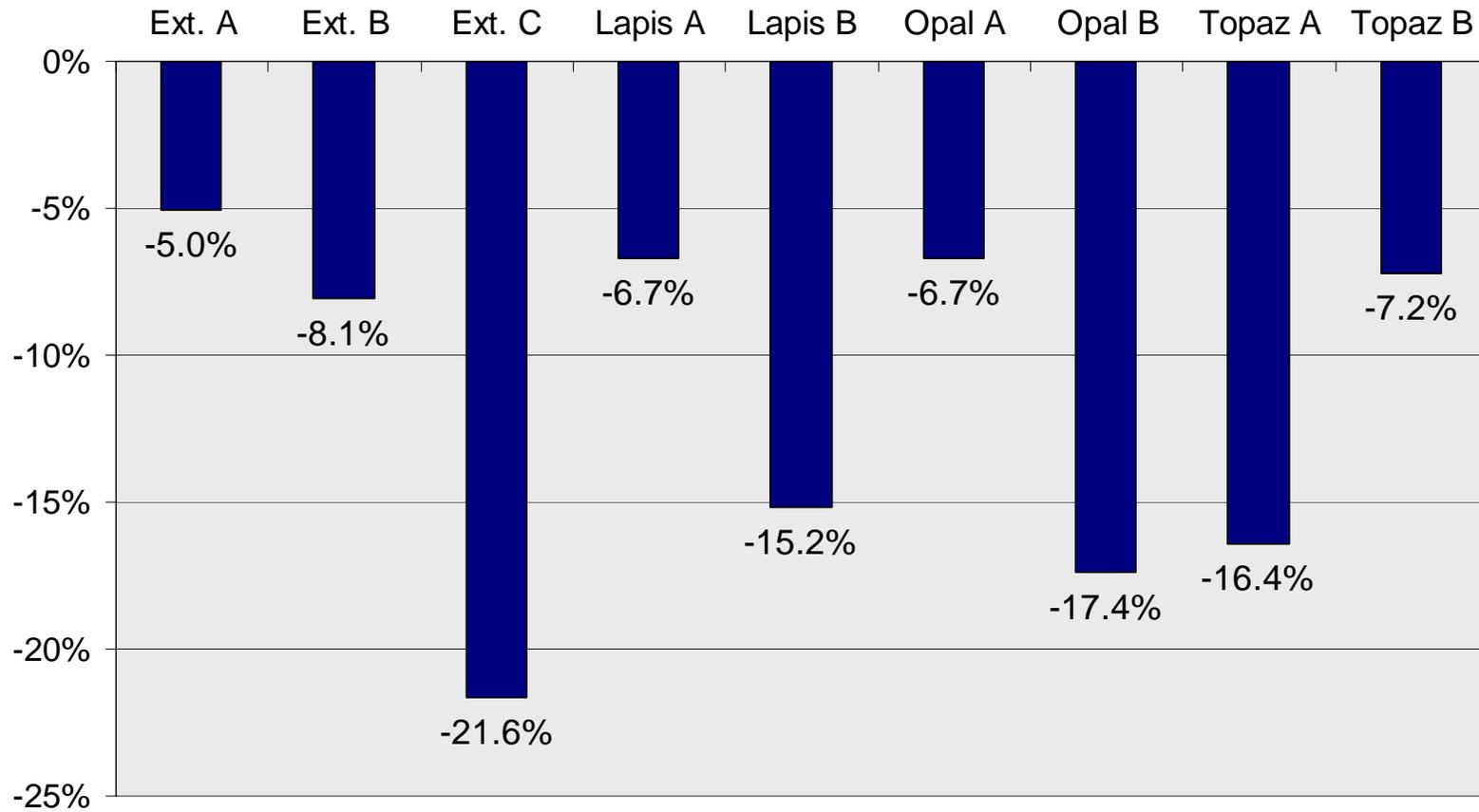
Additional Analyses and Next Steps

- All results for the first round to be finalized by the MLPA Blue Ribbon Task Force meeting and made available
 - Summary report (including comments and suggestions provided by the)
 - Results summarized per MPA (Excel spreadsheet)
 - The above are to be used in combination with the maps, data collection methods, and evaluation methods already provided
- Analyses for subsequent iterations
 - Consideration of existing closures
 - Individual impacts
- Next steps
 - Second round analysis for MLPA South Coast Study Region



Potential Gross Economic Impacts (Commercial)

Estimated Annual Gross Economic Impact by Proposal
(% Reduction in Ex-vessel Revenues)



Comparison of Potential Economic Impacts (Commercial)

