

Marine Life Protection Act Initiative



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

Presentation to the MLPA South Coast 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
- **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**



Use of Survey Information

- **Evaluation: Use the survey data and maps to**
 - Evaluate the maximum potential impacts of MPA proposals on the commercial, commercial passenger fishing vessel (CPFV) and recreational fishing grounds
 - Evaluate maximum potential economic impact on commercial and CPFV fisheries
 - Focus is on the fisheries, and not on regional multipliers of economic impact
 - Additional analyses (e.g. existing closures, individual impacts, etc.)



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 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)

Potential Impact on Commercial Fisheries

- Assessed for total fishing grounds (area) 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	C.I. MPAs	Lapis 1	Lapis 2	Opal	Topaz	Ext. A	Ext. B
Ca. Halibut (Hook & Line)	3.7%	9.0%	9.4%	9.6%	10.5%	8.8%	6.3%
Ca. Halibut (Trawl)	0.0%	3.5%	4.3%	3.0%	4.2%	4.4%	2.4%
Coastal Pelagics	—	—	—	—	—	—	—
Live Bait	—	—	—	—	—	—	—
Lobster	5.8%	9.6%	9.6%	10.1%	10.6%	8.8%	7.8%
N. Fishery (Hook & Line)	9.8%	13.6%	13.6%	14.0%	14.6%	12.9%	10.5%
N. Fishery (Trap)	1.6%	6.6%	6.1%	6.6%	11.0%	8.9%	8.7%
Rock Crab	3.9%	9.4%	9.4%	9.9%	10.5%	8.6%	6.4%
Sablefish	—	—	—	—	—	—	—
Sea Cucumber (Diving)	10.4%	14.5%	14.5%	15.6%	15.8%	13.3%	15.0%
Sea Cucumber (Trawl)	0.0%	2.3%	2.3%	2.6%	2.6%	2.0%	1.1%
Spot Prawn	0.0%	12.9%	12.9%	5.6%	13.3%	12.9%	0.0%
Squid	—	—	—	—	—	—	—
Swordfish	—	—	—	—	—	—	—
Thornyhead	—	—	—	—	—	—	—
Urchin	7.2%	12.7%	12.5%	12.8%	13.9%	12.2%	11.2%

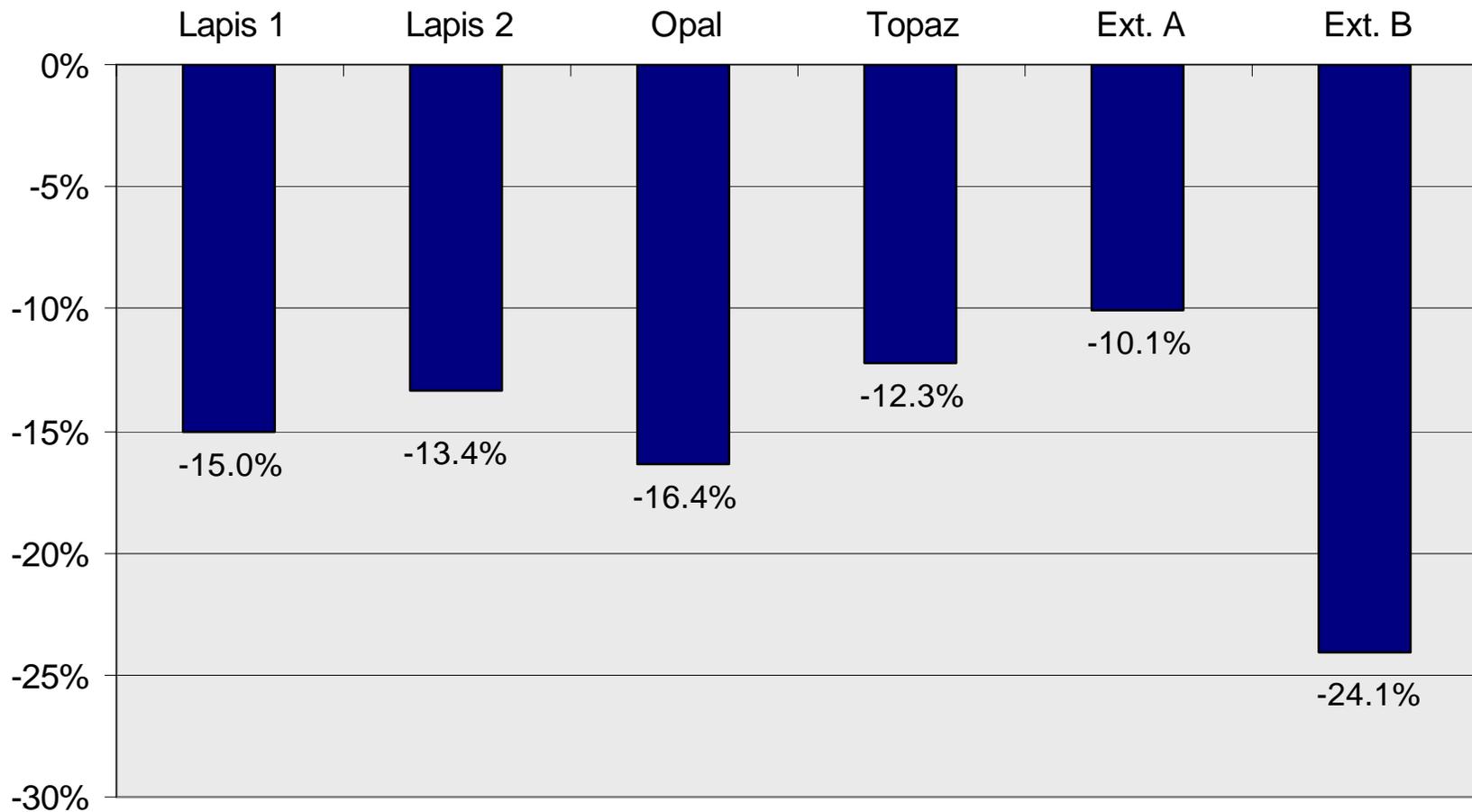
Potential Net Economic Impacts (Commercial)

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	\$343,626
Ventura	\$86,604	\$290,770	\$269,787	\$373,115	\$157,866	\$138,909	\$677,328
Port Hueneme	\$306,853	\$793,561	\$727,657	\$916,663	\$585,911	\$519,553	\$1,448,186
San Pedro	\$227,858	\$1,156,759	\$1,093,810	\$1,234,148	\$913,877	\$753,777	\$2,141,399
Dana Point	\$2,458	\$154,059	\$164,905	\$240,326	\$219,057	\$111,231	\$483,610
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	\$250,144
Study Region	\$881,311	\$3,402,903	\$3,032,829	\$3,704,030	\$2,779,088	\$2,280,327	\$5,448,957

Port	% 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%	30.3%
Port Hueneme	6.1%	15.7%	14.4%	18.1%	11.6%	10.3%	28.7%
San Pedro	2.5%	12.6%	12.0%	13.5%	10.0%	8.2%	23.4%
Dana Point	0.3%	16.5%	17.7%	25.7%	23.5%	11.9%	51.8%
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%	15.3%
Study Region	3.8%	15.0%	13.4%	16.4%	12.3%	10.1%	24.1%

Potential Net Economic Impacts (Commercial)

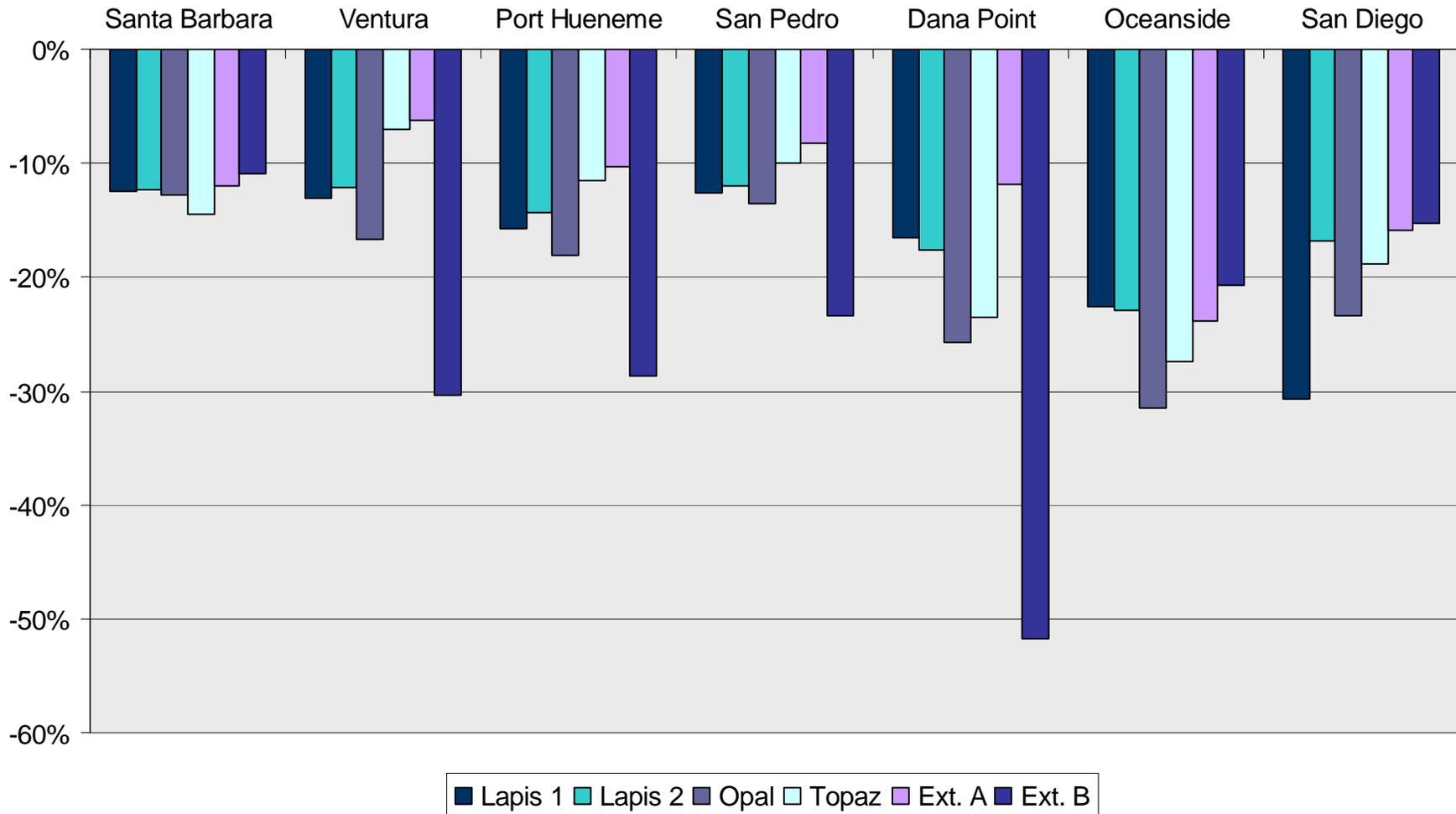
Estimated Annual Net Economic Impact by Proposal
(% Reduction in Profit)





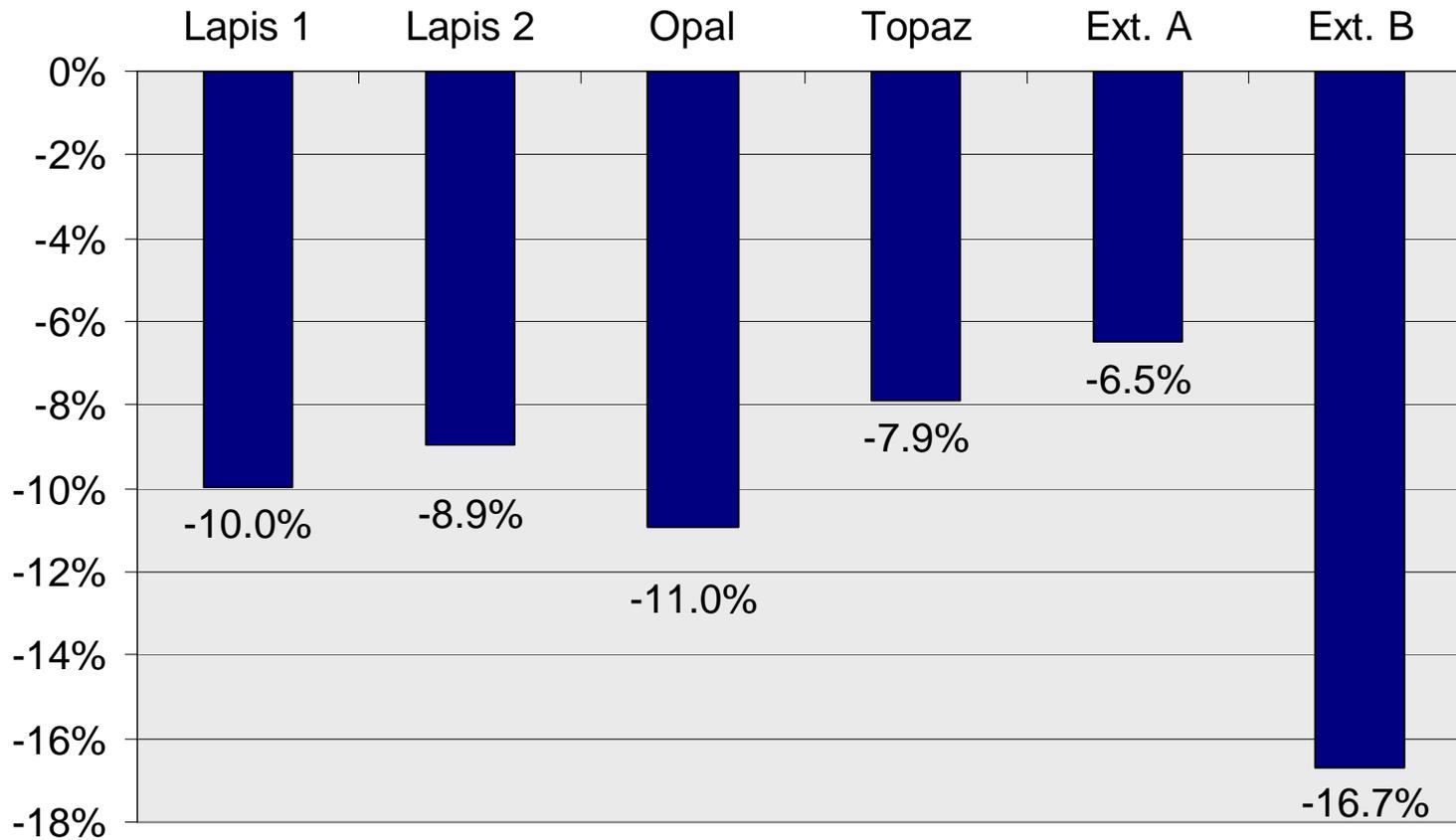
Potential Net Economic Impacts (Commercial)

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



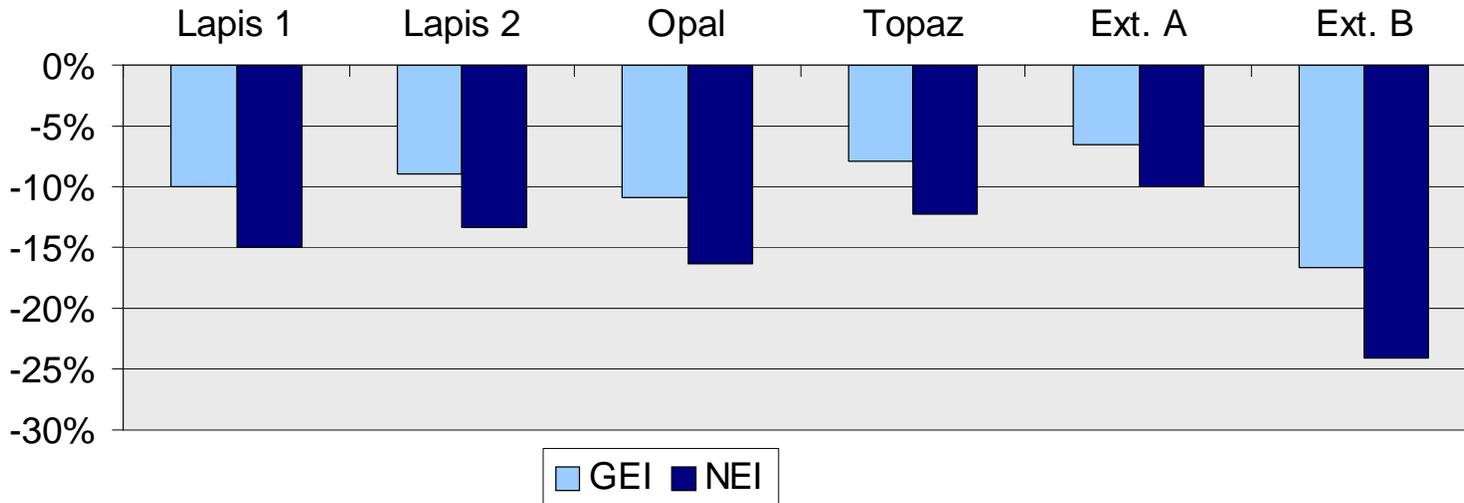
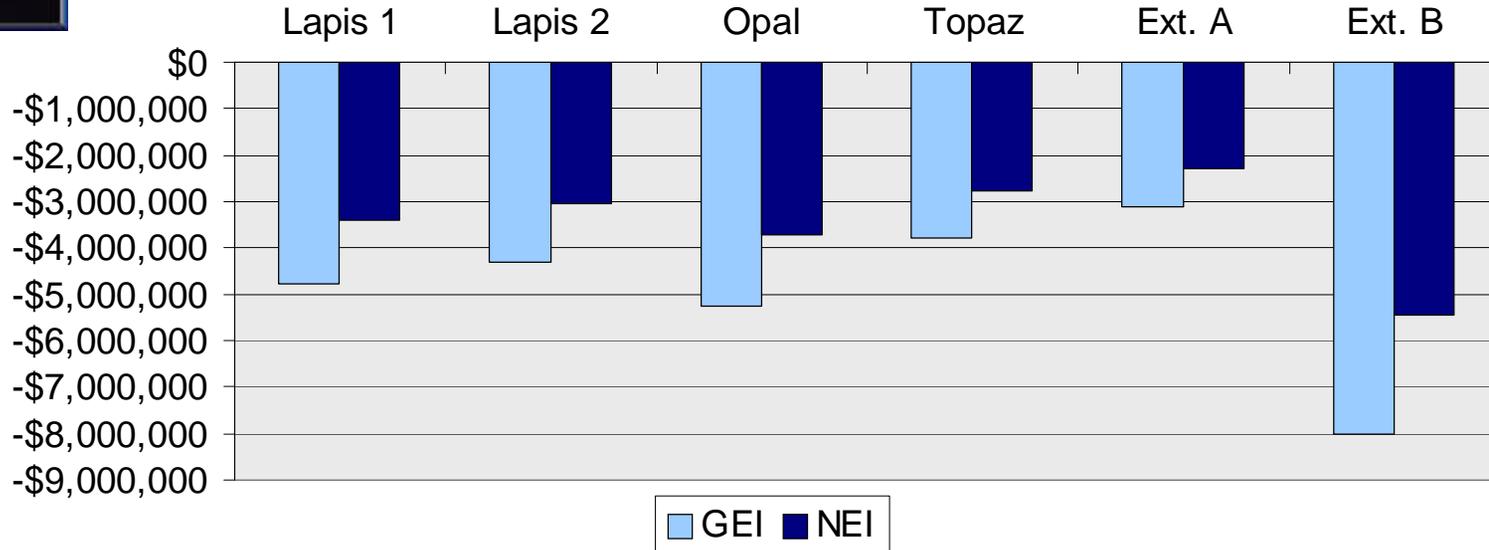
Potential Gross Economic Impacts (Commercial)

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





Comparison of Potential Economic Impacts (Commercial)





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
- Potential annual net economic impact

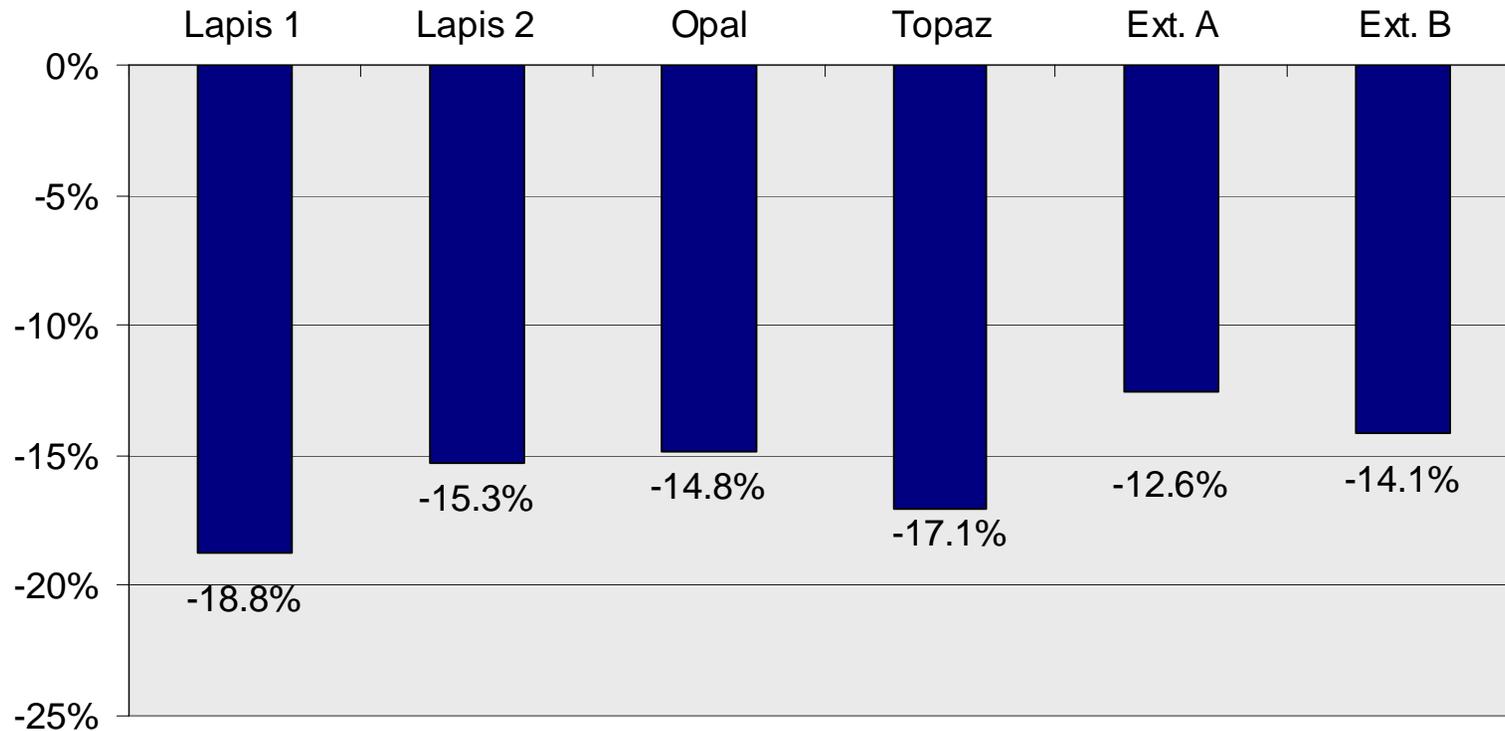
Potential Impact on CPFV Fisheries

- Assessed for total fishing grounds (area) and total value of fishing grounds (see Tables A.3 and A.4)
- Example: Potential impacts on total value under Lapis 1

Fishery	Santa Barbara	Port Hueneme / Channel Islands Harbor	Santa Monica	San Pedro / Long Beach	Newport Beach	Dana Point	Oceanside	San Diego
Barracuda	2.7%	11.0%	7.1%	1.3%	2.6%	2.4%	6.8%	14.0%
Ca. Halibut	10.1%	23.6%	4.0%	1.3%	6.2%	8.8%	5.1%	12.9%
Calico Bass	6.0%	16.2%	8.0%	3.2%	13.9%	7.9%	5.4%	22.0%
Lingcod	10.1%	14.4%	7.8%	5.5%	22.1%	13.3%	8.4%	13.2%
Rockfish	7.9%	14.9%	8.1%	5.3%	8.7%	11.2%	7.3%	9.6%
Ca. Scorpionfish	3.7%	14.2%	4.1%	2.5%	2.4%	10.0%	5.9%	12.7%
Ca. Sheephead	9.6%	15.9%	7.8%	3.4%	16.8%	13.1%	9.0%	15.4%
Sand Bass	2.9%	3.8%	3.9%	0.2%	6.5%	4.4%	6.0%	10.7%
Whitefish	9.2%	16.3%	6.1%	1.9%	5.4%	16.9%	9.3%	17.9%
White Seabass	7.4%	16.8%	7.4%	5.7%	13.7%	9.0%	6.1%	18.2%

Potential Economic Impacts (CPFV)

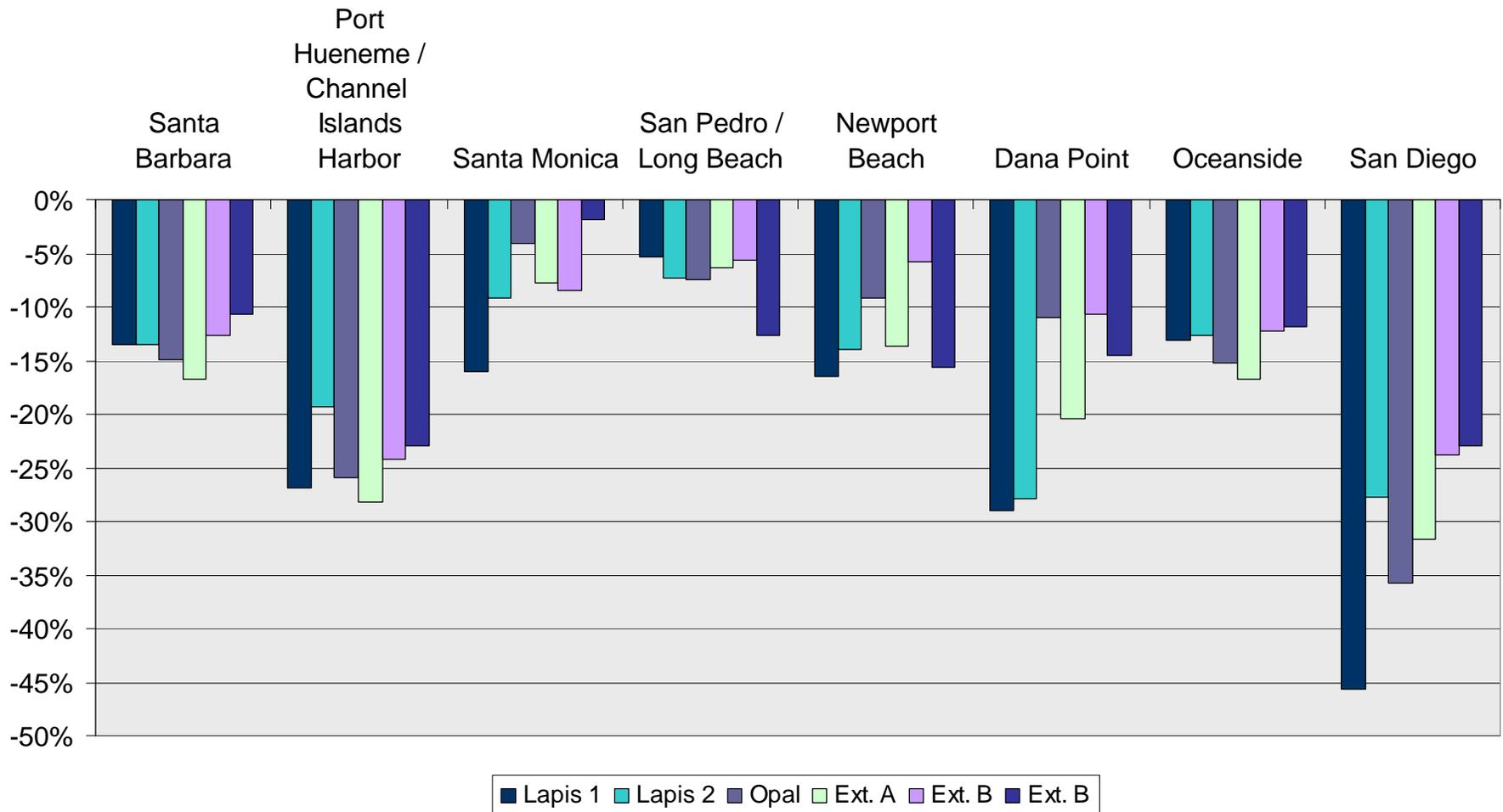
Estimated Annual Net Economic Impact by Proposal
(% Reduction in Profit)





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.18)
- Example: Potential impacts of Lapis 1 on 2/17 rec. species

County	Sector	Total Area		Total Value	
		Calico Bass	White Seabass	Calico Bass	White Seabass
Santa Barbara	Dive	10.9%	7.3%	13.5%	4.8%
	Kayak	7.3%	—	7.0%	—
	Private Vessel	5.6%	3.9%	7.3%	4.1%
Ventura	Dive	16.9%	11.4%	19.2%	6.3%
	Kayak	14.2%	12.4%	22.0%	17.8%
	Private Vessel	9.0%	7.7%	8.2%	4.8%
Los Angeles	Dive	13.5%	12.2%	19.0%	11.8%
	Kayak	8.9%	12.6%	15.5%	16.4%
	Private Vessel	5.1%	7.8%	5.0%	10.7%
Orange	Dive	16.6%	11.4%	74.7%	19.8%
	Kayak	10.2%	15.9%	24.9%	34.2%
	Private Vessel	5.3%	7.2%	12.0%	12.1%
San Diego	Dive	21.6%	8.7%	54.4%	31.5%
	Kayak	24.5%	16.8%	52.0%	49.5%
	Private Vessel	11.4%	8.8%	26.0%	20.5%



Additional Analyses and Next Steps

- All results for the second round to be finalized by the next MLPA Blue Ribbon Task Force meeting and made available
 - Summary report (including comments and suggestions provided by regional stakeholder group members)
 - 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 fishing closures
- Next steps
 - 3rd round of analysis for MLPA South Coast Study Region