

The Otter Project

MPA Watch Survey Data

Quarter 2

April 2016 - June 2016

Total surveys to date: 7,820

Total surveys for this year: 729

Contributing volunteers this quarter: 62

MPA Watch is a citizen science initiative to monitor human use of coastal natural resources by training and supporting volunteers in the collection of relevant, scientifically rigorous, and broadly accessible data. Data is meant to inform the management, enforcement, and research of California's marine protected areas (MPAs) and allow us to see how human uses are changing as a result of MPA implementation.

Volunteers record consumptive activities such as commercial fishing, shore fishing, and clamming, and non-consumptive activities such as swimming, SCUBA diving, and tide pooling. Potential users of MPA Watch data span academia, natural resource management agencies, and local communities. Data collection and this report will support MPA assessments and adaptive management; inform enforcement, compliance, education efforts; and build social capital.

All measurements are calculated as the average number of activities per mile per survey. This report does not attempt any statistical analysis. The intent is to report our results and offer anecdotal observations.

Note: The Otter Project ceased surveying at Ano Nuevo and Bean Hollow on April 30th, 2016.

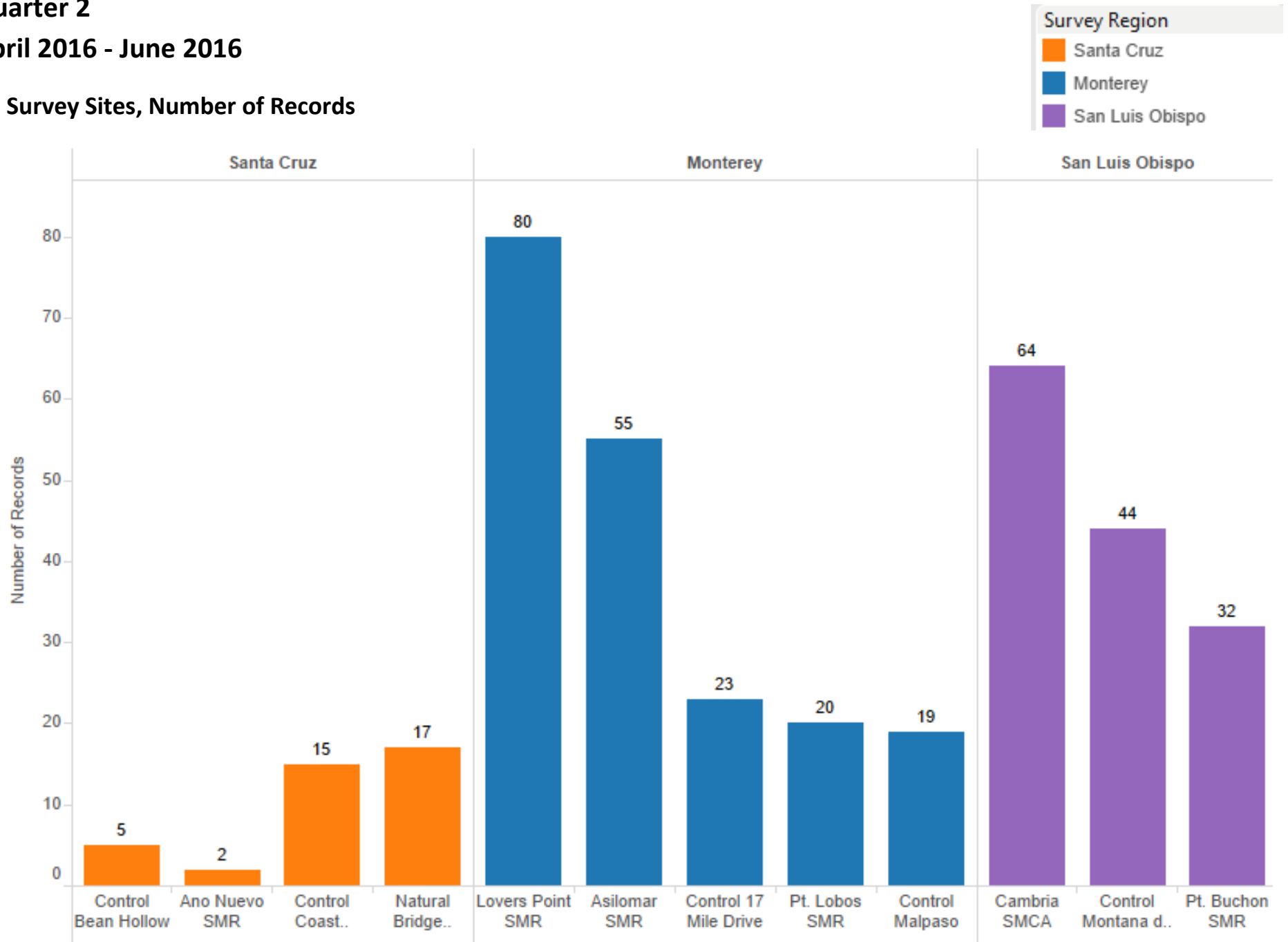
Santa Cruz cumulative total: 1,309 Santa Cruz total this year: 100 Santa Cruz total this quarter: 39	Monterey cumulative total: 4,272 Monterey total this year: 388 Monterey total this quarter: 197	San Luis Obispo cumulative total: 2,222 San Luis Obispo total this year: 241 San Luis Obispo total this quarter: 140
<u>Total Per Site Quarter 2:</u> Bean Hollow: 5 Ano Nuevo: 2 Coastal Bluffs: 15 Natural Bridges: 17	<u>Total Per Site Quarter 2:</u> Lover's Point: 80 Asilomar: 55 17 Mile Drive: 23 Pt. Lobos: 20 Malpaso: 19	<u>Total Per Site Quarter 1:</u> Cambria: 64 Montana de Oro: 44 Pt. Buchon: 32

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All Survey Sites, Number of Records

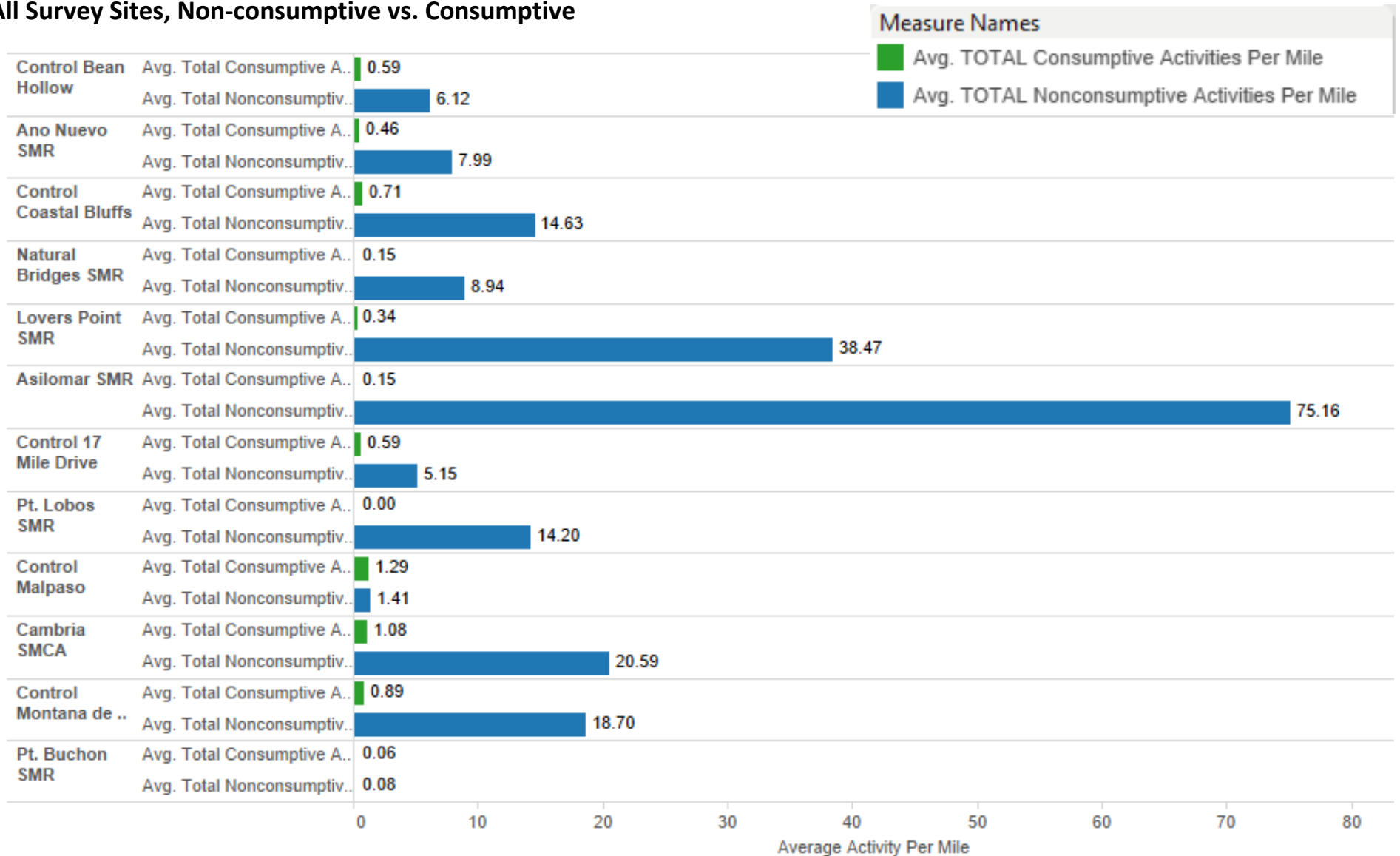


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All Survey Sites, Non-consumptive vs. Consumptive

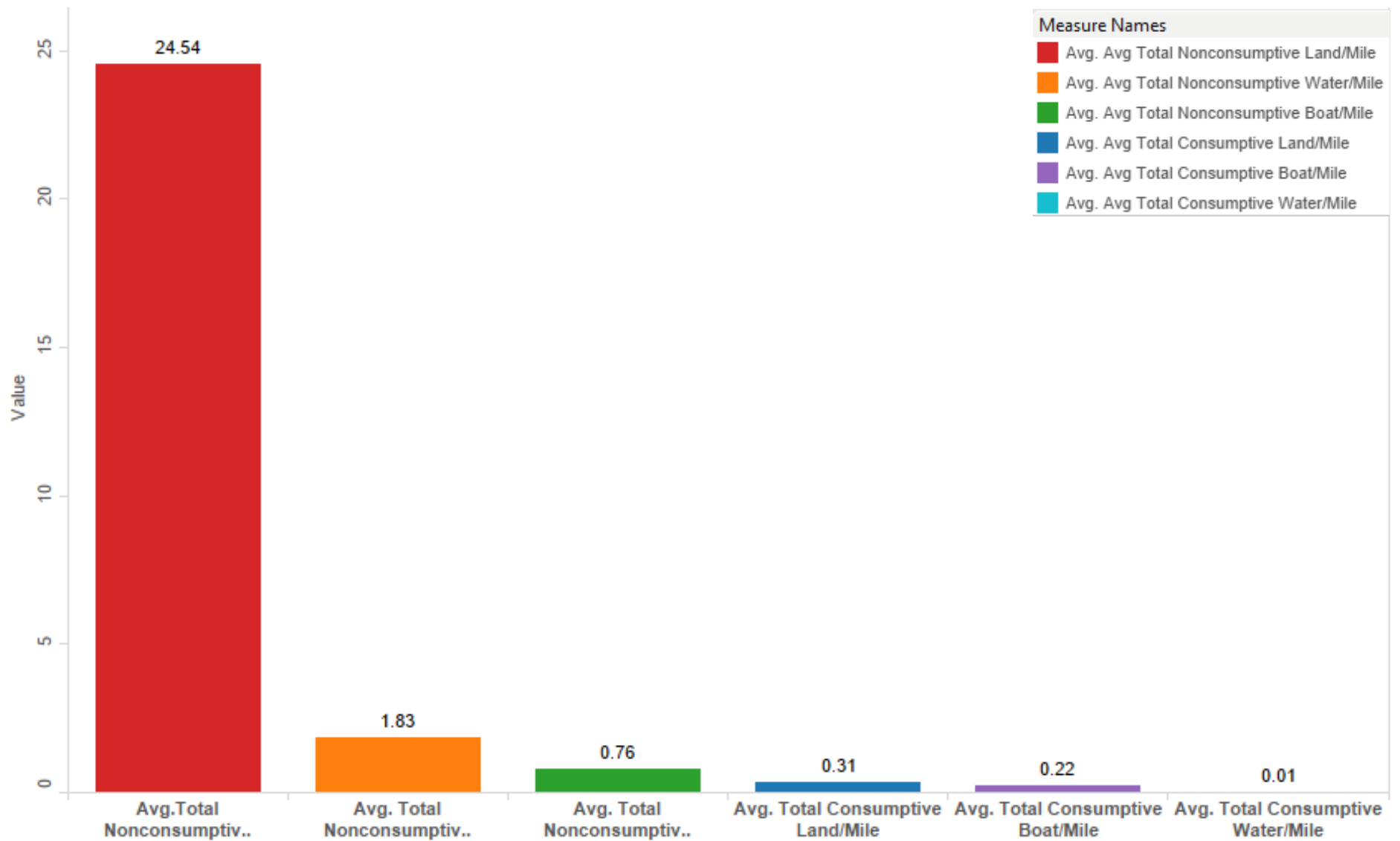


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Cumulative Activity Overview



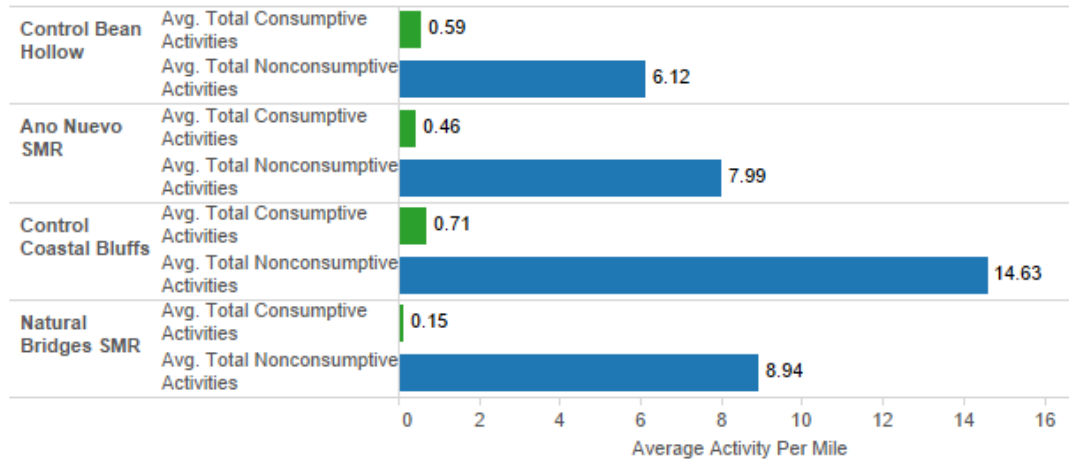
MPA Watch Survey Data

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All Santa Cruz Sites

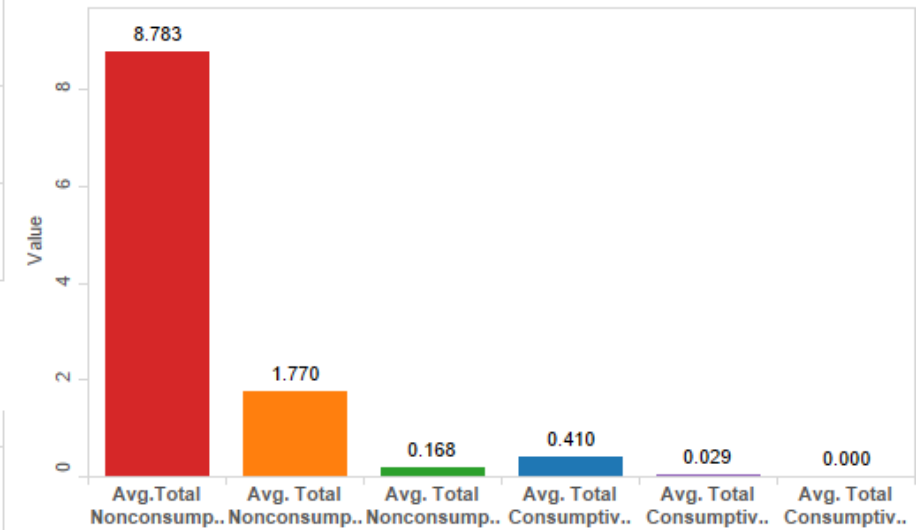
CON vs. NON-CON



Measure Names

- Avg. Total Consumptive Activities
- Avg. Total Nonconsumptive Activities

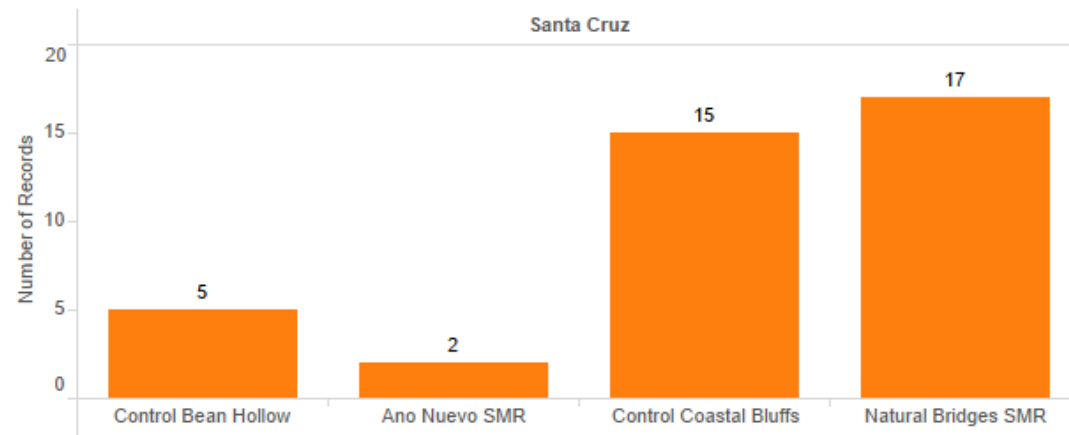
Activity Overview



Measure Names

- Avg. Total Nonconsumptive Land/Mile
- Avg. Total Nonconsumptive Water/Mile
- Avg. Total Nonconsumptive Boat/Mile
- Avg. Total Consumptive Land/Mile
- Avg. Total Consumptive Boat/Mile
- Avg. Total Consumptive Water/Mile

Surveys by Site



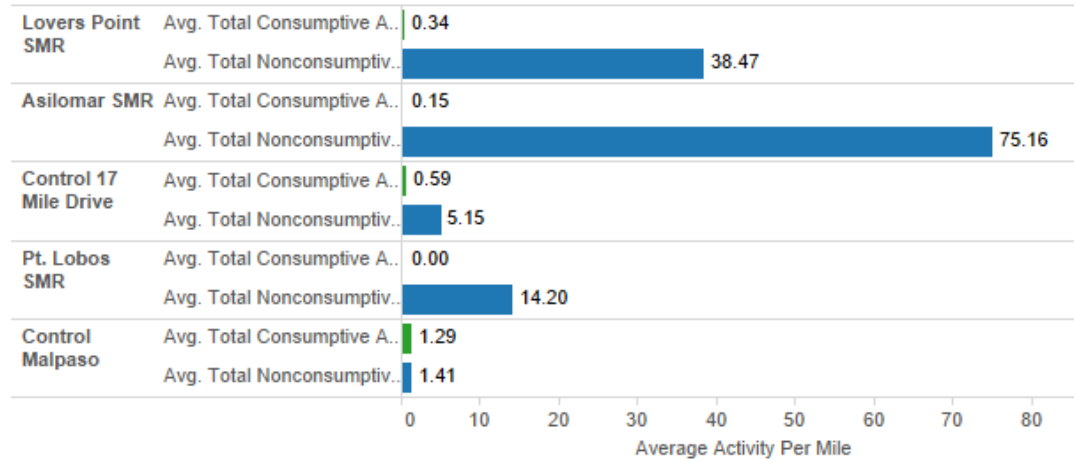
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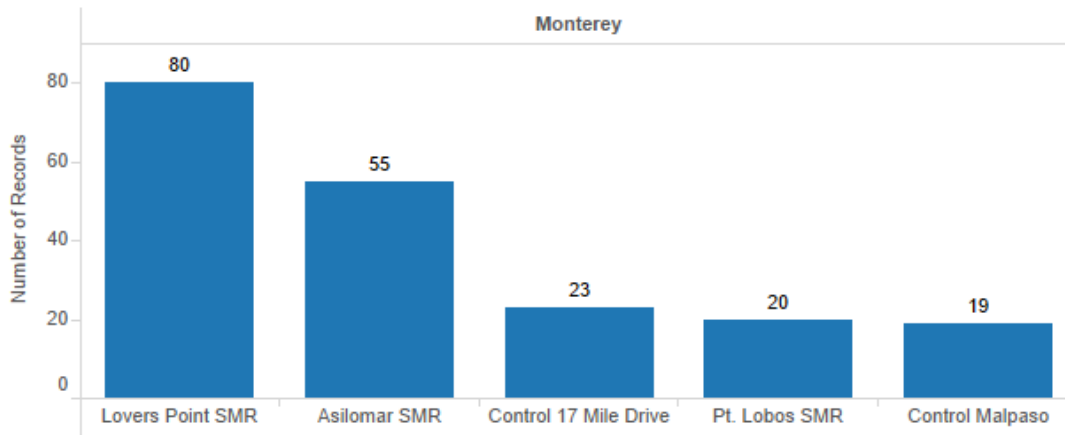
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All Monterey Sites

CON vs. NON-CON



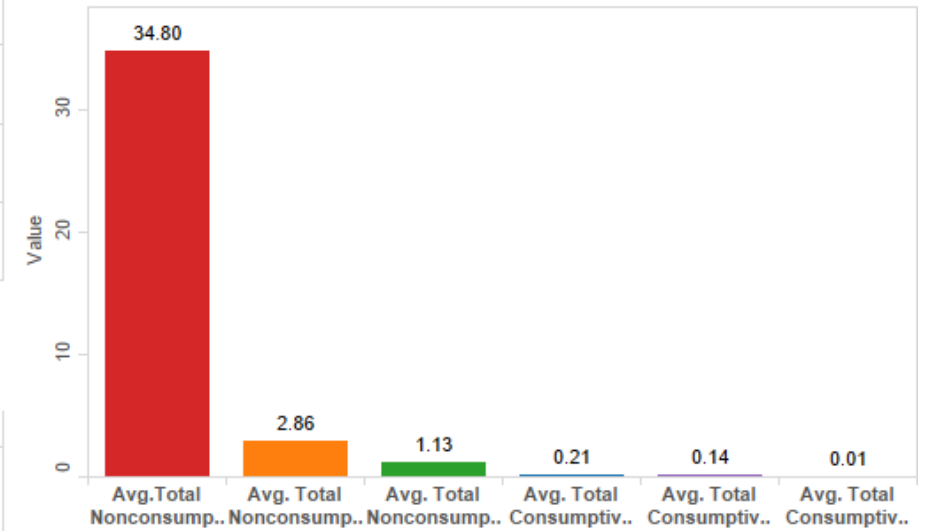
Surveys by Site



Measure Names

- Avg. Total Consumptive Activities
- Avg. Total Nonconsumptive Activities

Activity Overview



Measure Names

- Avg. Total Nonconsumptive Land/Mile
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- Avg. Total Nonconsumptive Boat/Mile
- Avg. Total Consumptive Land/Mile
- Avg. Total Consumptive Boat/Mile
- Avg. Total Consumptive Water/Mile

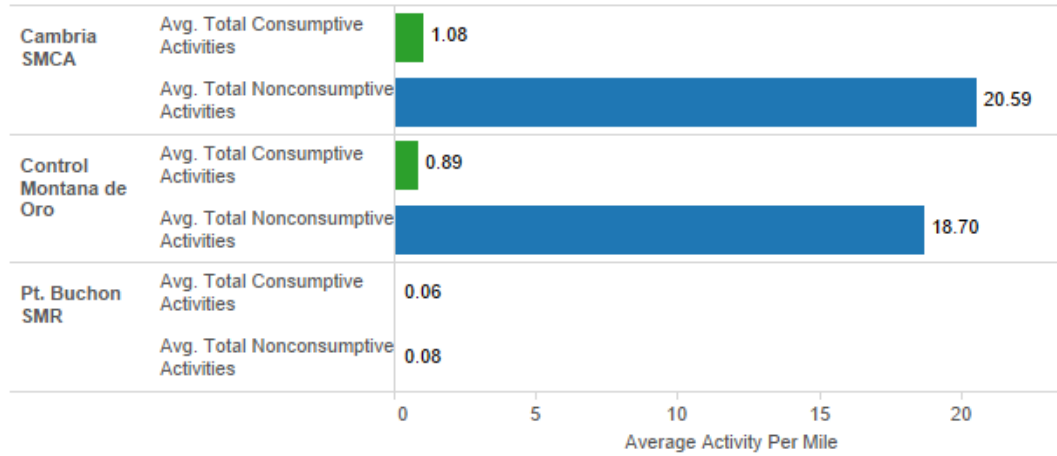
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All San Luis Obispo Sites

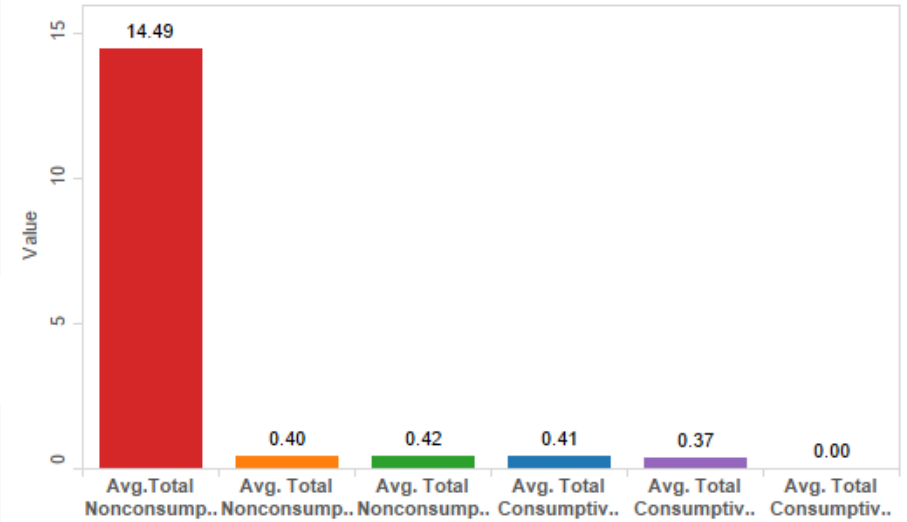
CON vs. NON-CON



Measure Names

- Avg. Total Consumptive Activities
- Avg. Total Nonconsumptive Activities

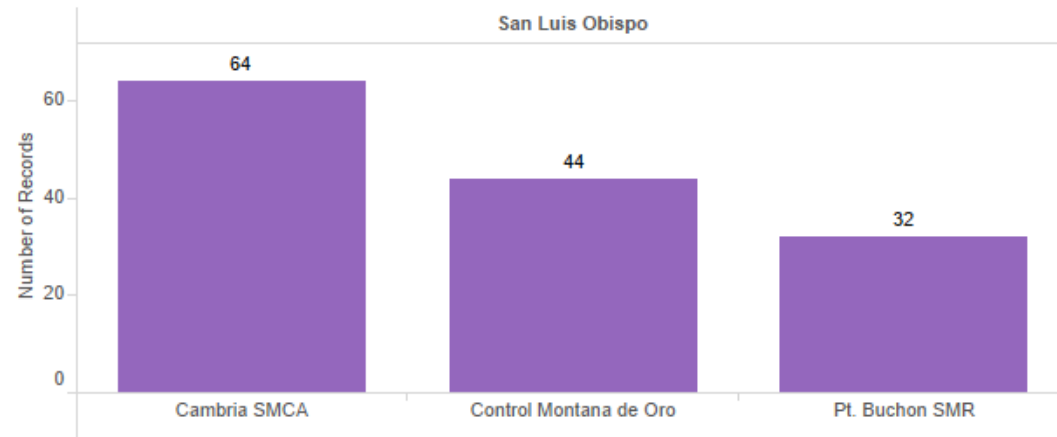
Activity Overview



Measure Names

- Avg. Total Nonconsumptive Land/Mile
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- Avg. Total Nonconsumptive Boat/Mile
- Avg. Total Consumptive Land/Mile
- Avg. Total Consumptive Boat/Mile
- Avg. Total Consumptive Water/Mile

Surveys by Site



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Consumptive Trends in SMR MPAs: Time of Day

