

The Otter Project

MPA Watch Survey Data

October 2011 - December 2011

Quarter 4

Total surveys to date: 939

Total surveys for this year: 939

Total surveys for this quarter: 359

Contributing volunteers this quarter: 36

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.

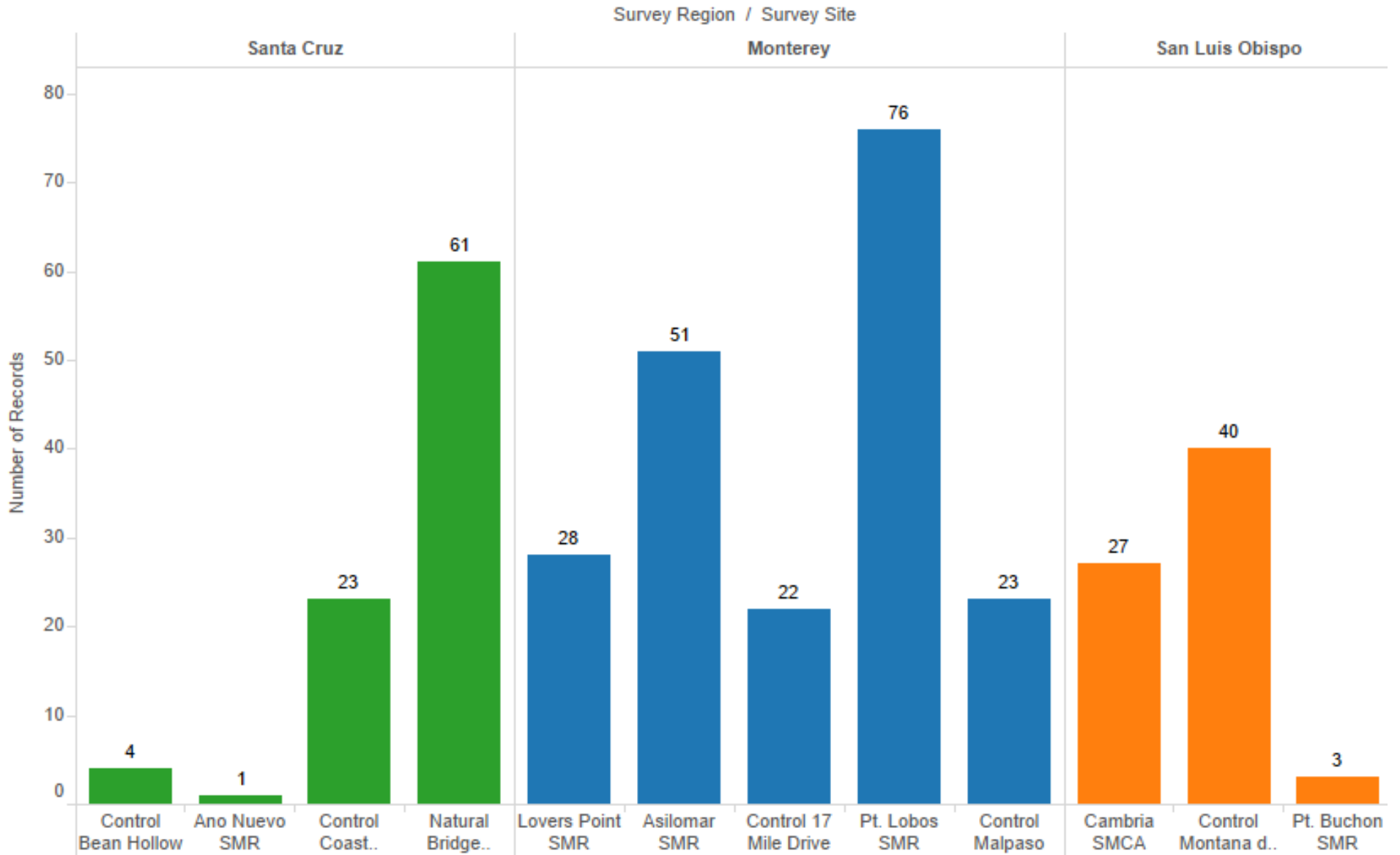
Some points to keep in mind while reading this report include:

- The first year of collection, 2011, was a partial year with surveys beginning in April.
- Non-Biological collection has been included in the Non-Consumptive count.
- 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.

Santa Cruz cumulative total: 272 Santa Cruz total this year: 272	Monterey cumulative total: 477 Monterey total this year: 477	San Luis Obispo cumulative total: 190 San Luis Obispo total this year: 190
<u>Total Per Site Quarter 4:</u> Bean Hollow: 4 Ano Nuevo: 1 Coastal Bluffs: 23 Natural Bridges: 61	<u>Total Per Site Quarter 4:</u> Lover's Point: 28 Asilomar: 51 17 Mile Drive: 22 Pt. Lobos: 76 Malpaso: 23	<u>Total Per Site Quarter 4:</u> Cambria: 27 Montana de Oro: 40 Pt. Buchon: 3

MPA Watch Survey Data
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All Survey Sites, Number of Records



MPA Watch Survey Data

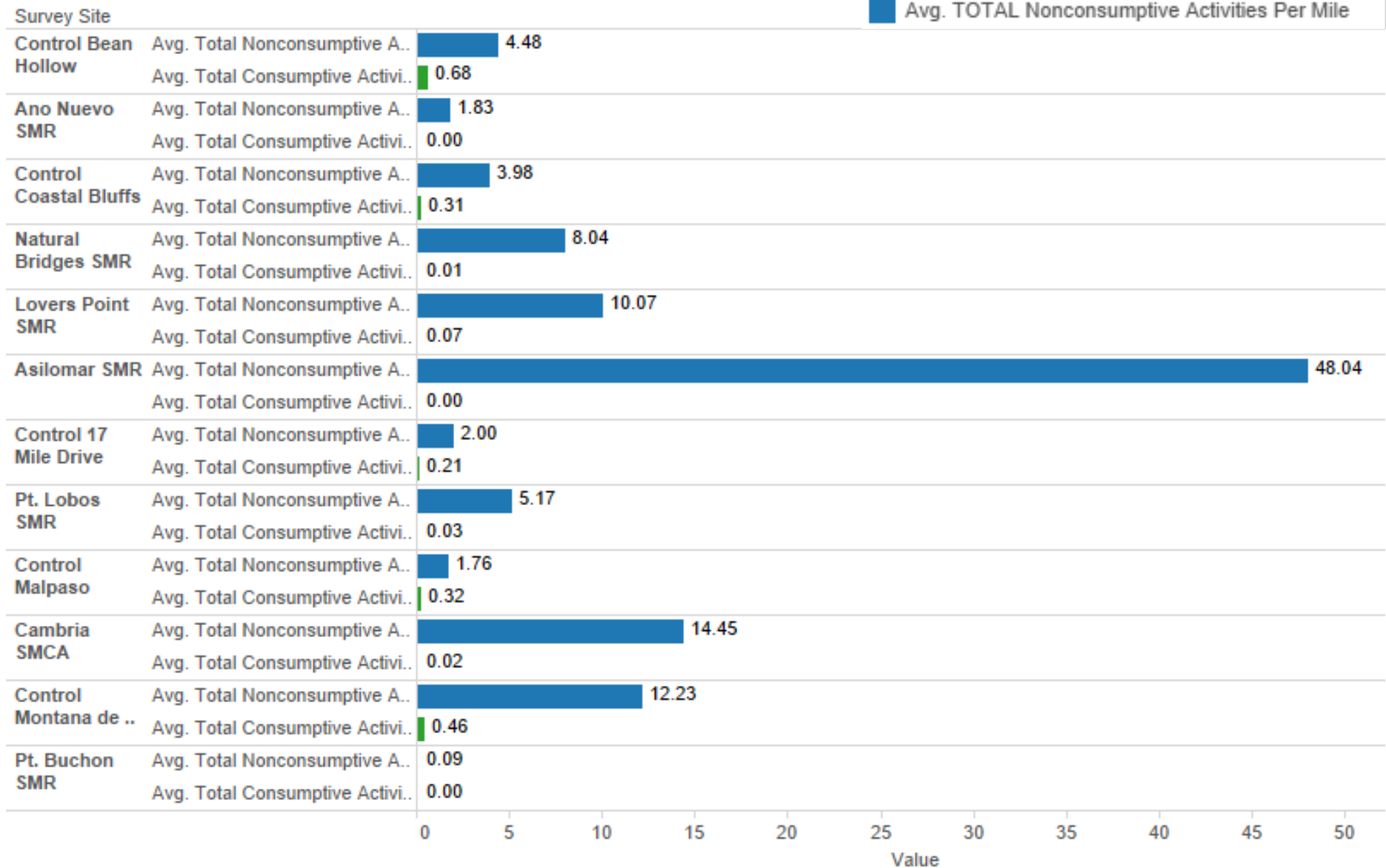
October 2011 - December 2011

Quarter 4

All Survey Sites, Non-consumptive vs. Consumptive

Measure Names

- Avg. TOTAL Consumptive Activities Per Mile
- Avg. TOTAL Nonconsumptive Activities Per Mile

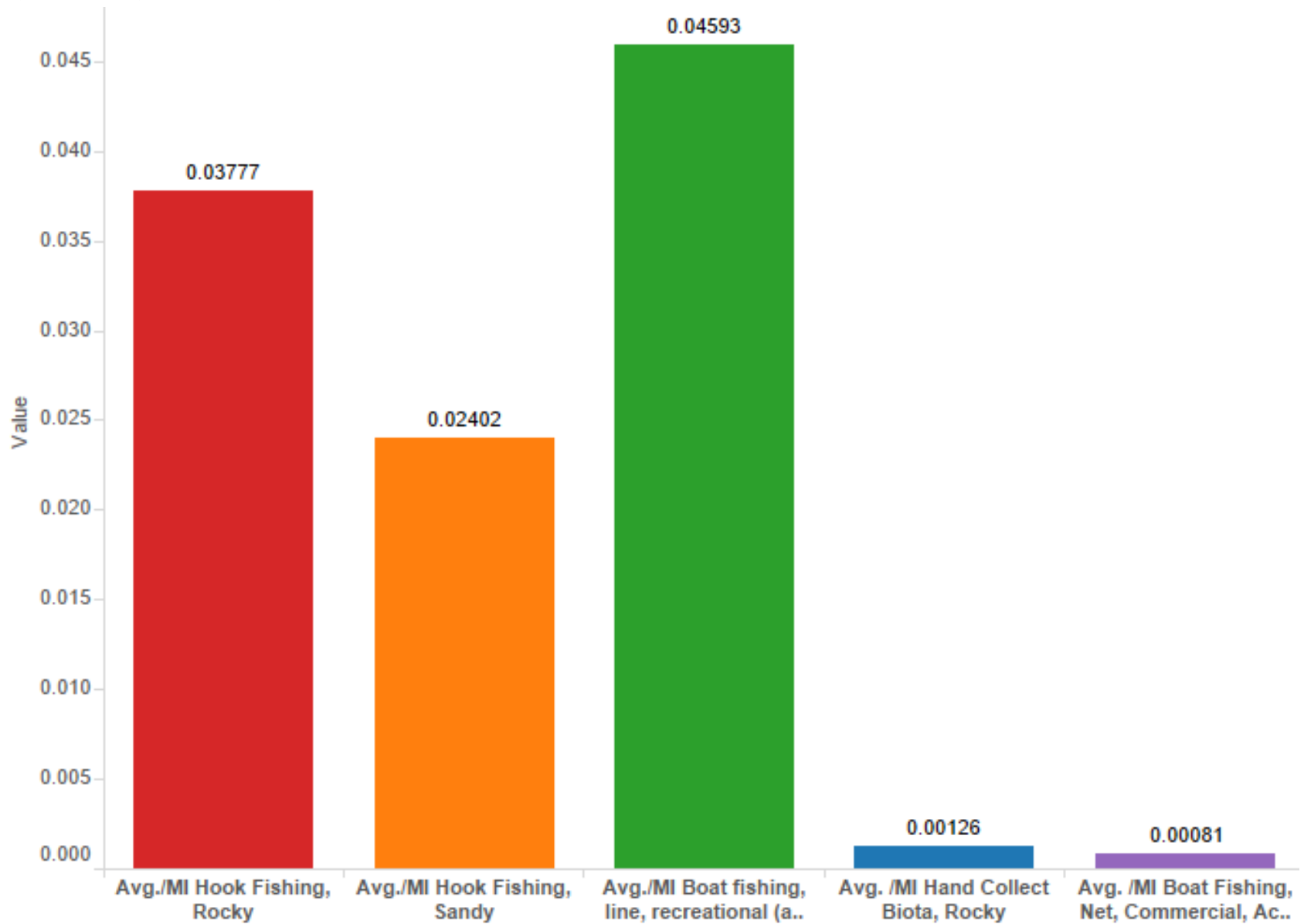


MPA Watch Survey Data

October 2011 - December 2011

Quarter 4

All Survey Sites, Top 5 Consumptive Activities

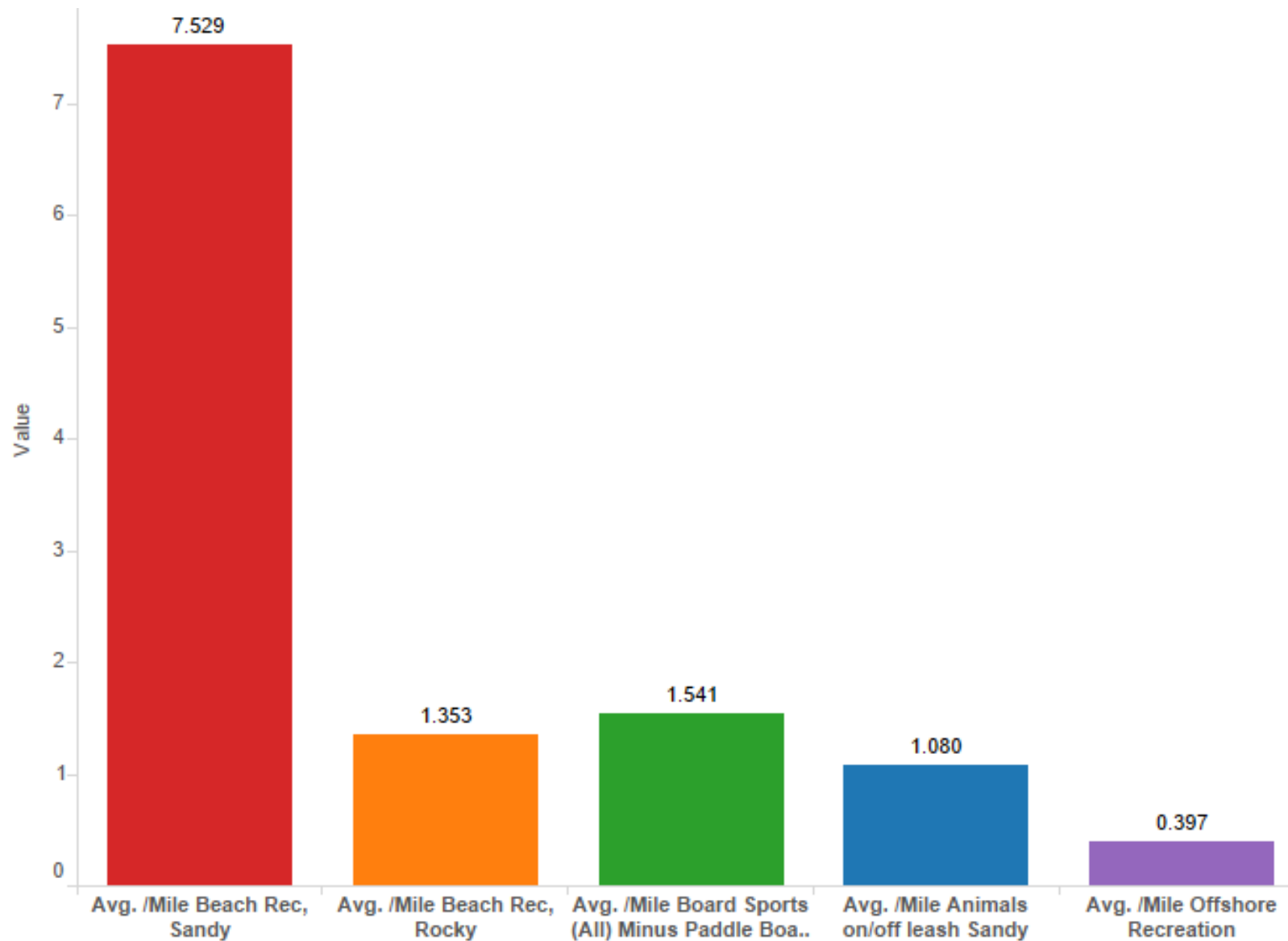


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October 2011 - December 2011

Quarter 4

All Survey Sites, Top 5 Non-Consumptive Activities



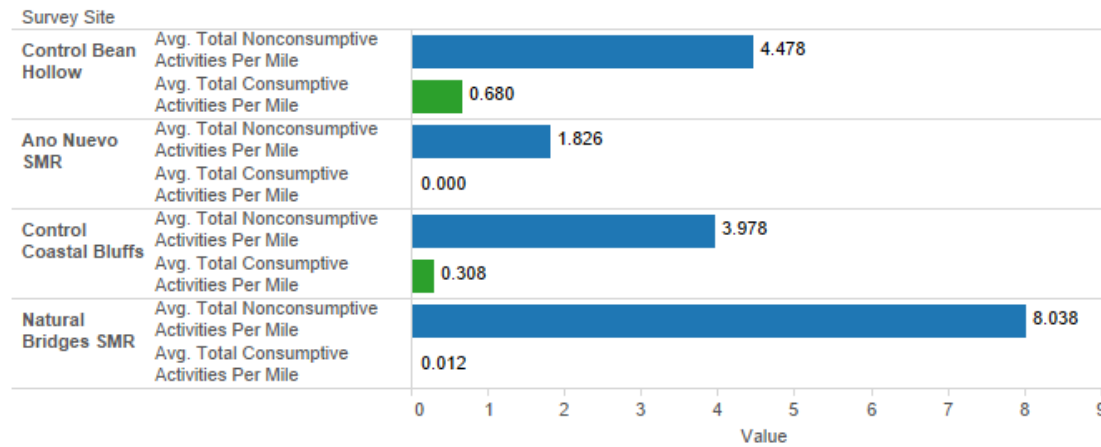
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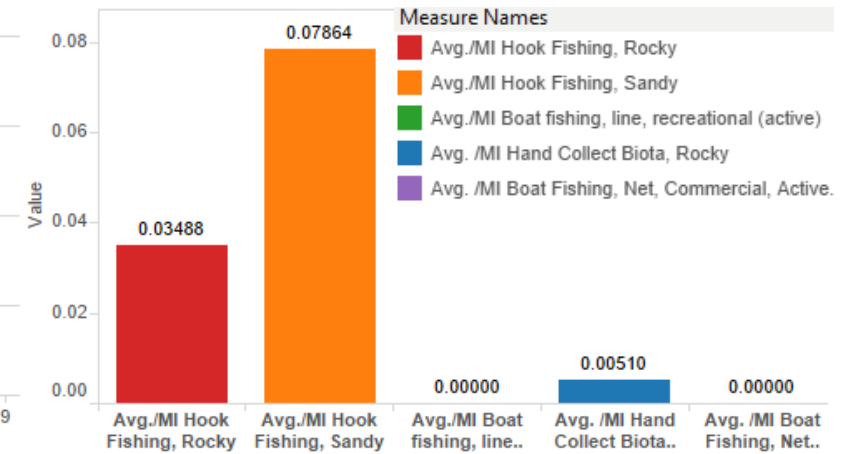
Quarter 4

All Santa Cruz Sites

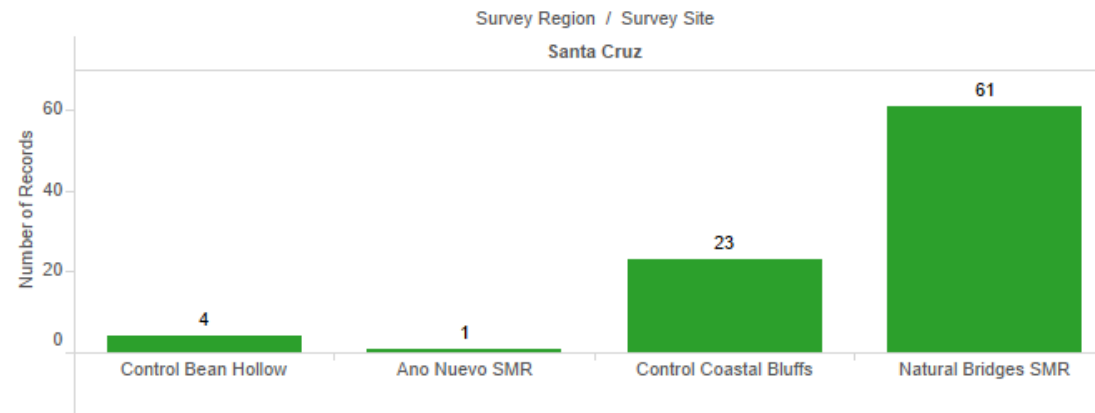
Con vs. Non-Con



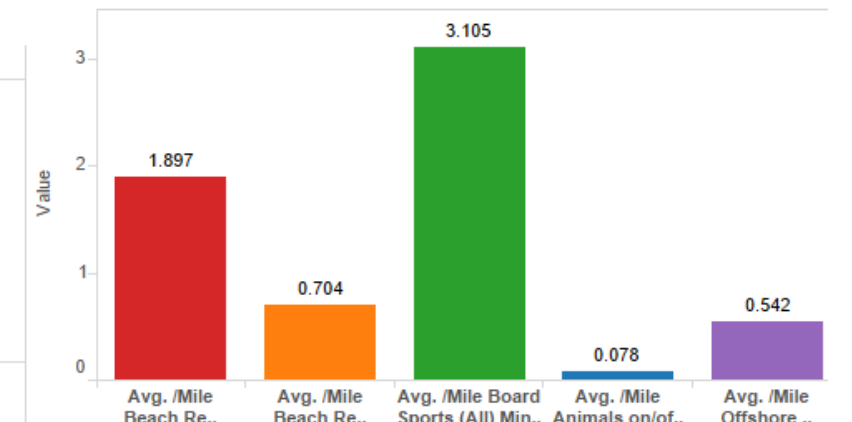
Top 5 Consumptive Activities



Surveys by Site



Top 5 Non-Consumptive Activities



Measure Names

- Avg. /Mile Beach Rec, Sandy
- Avg. /Mile Beach Rec, Rocky
- Avg. /Mile Board Sports (All) Minus Paddle Board
- Avg. /Mile Animals on/off leash Sandy
- Avg. /Mile Offshore Recreation

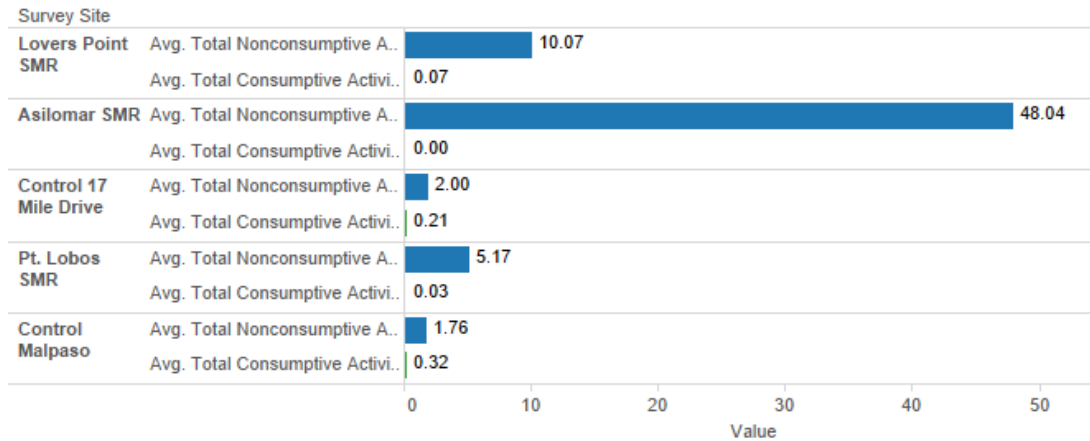
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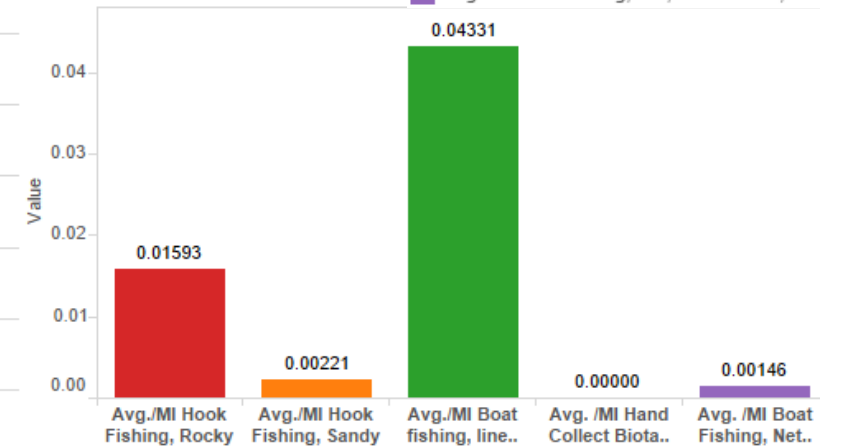
Quarter 4

All Monterey Sites

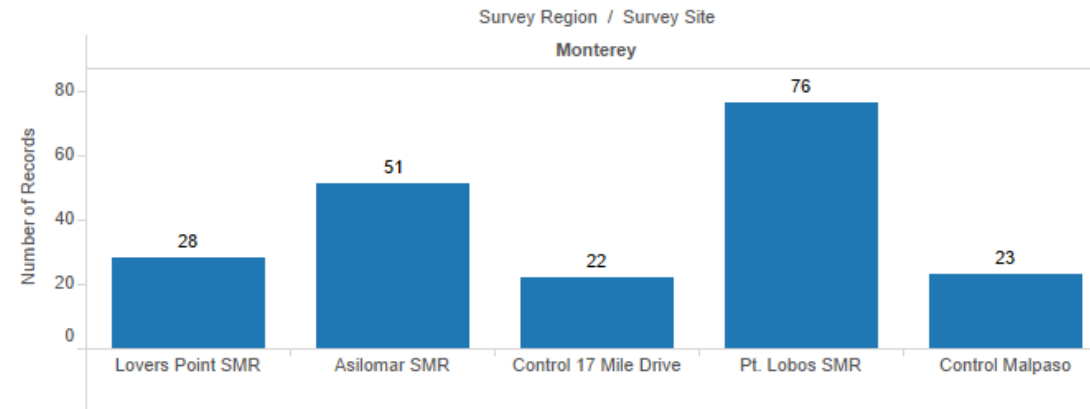
Con vs. Non-Con



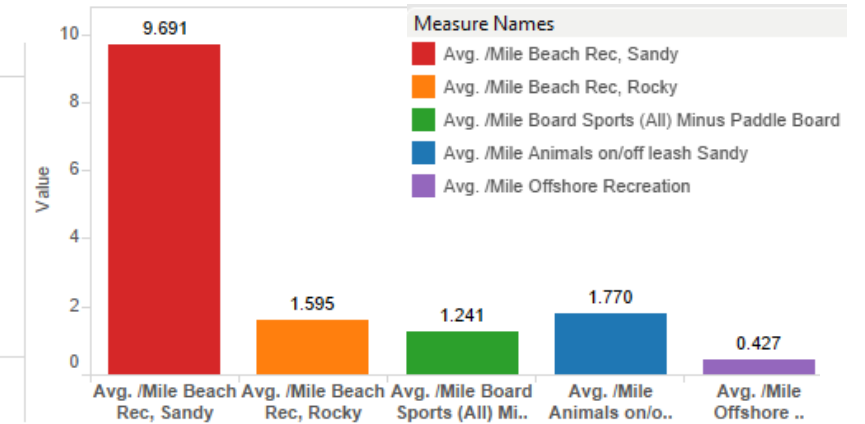
Top 5 Consumptive Activities



Surveys by Site



Top 5 Non-Consumptive Activities



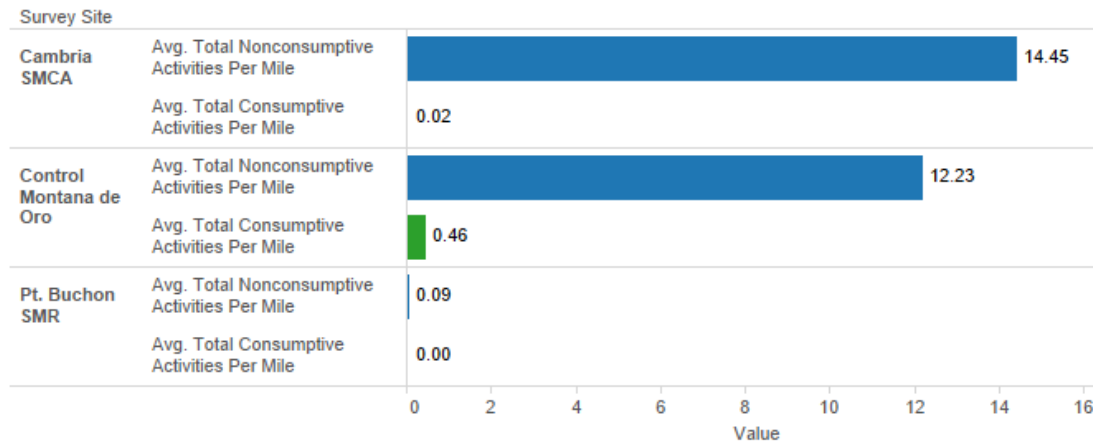
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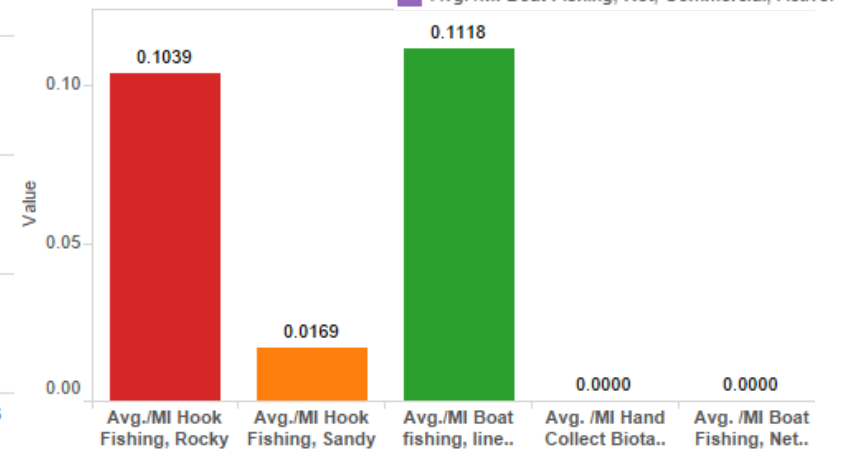
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All San Luis Obispo Sites

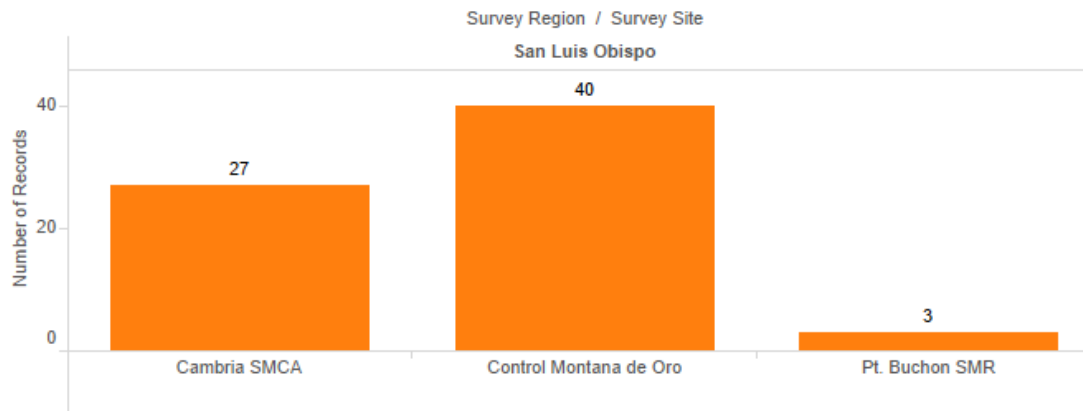
Con vs. Non-Con



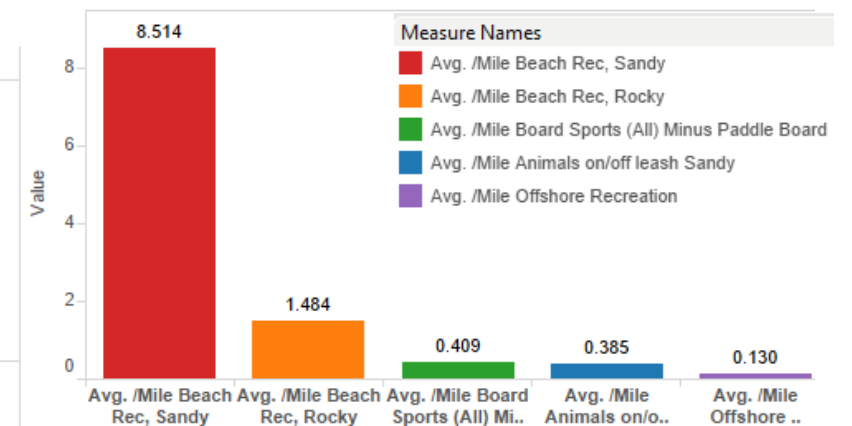
Top 5 Consumptive Activities



Surveys by Site



Top 5 Non-Consumptive Activities

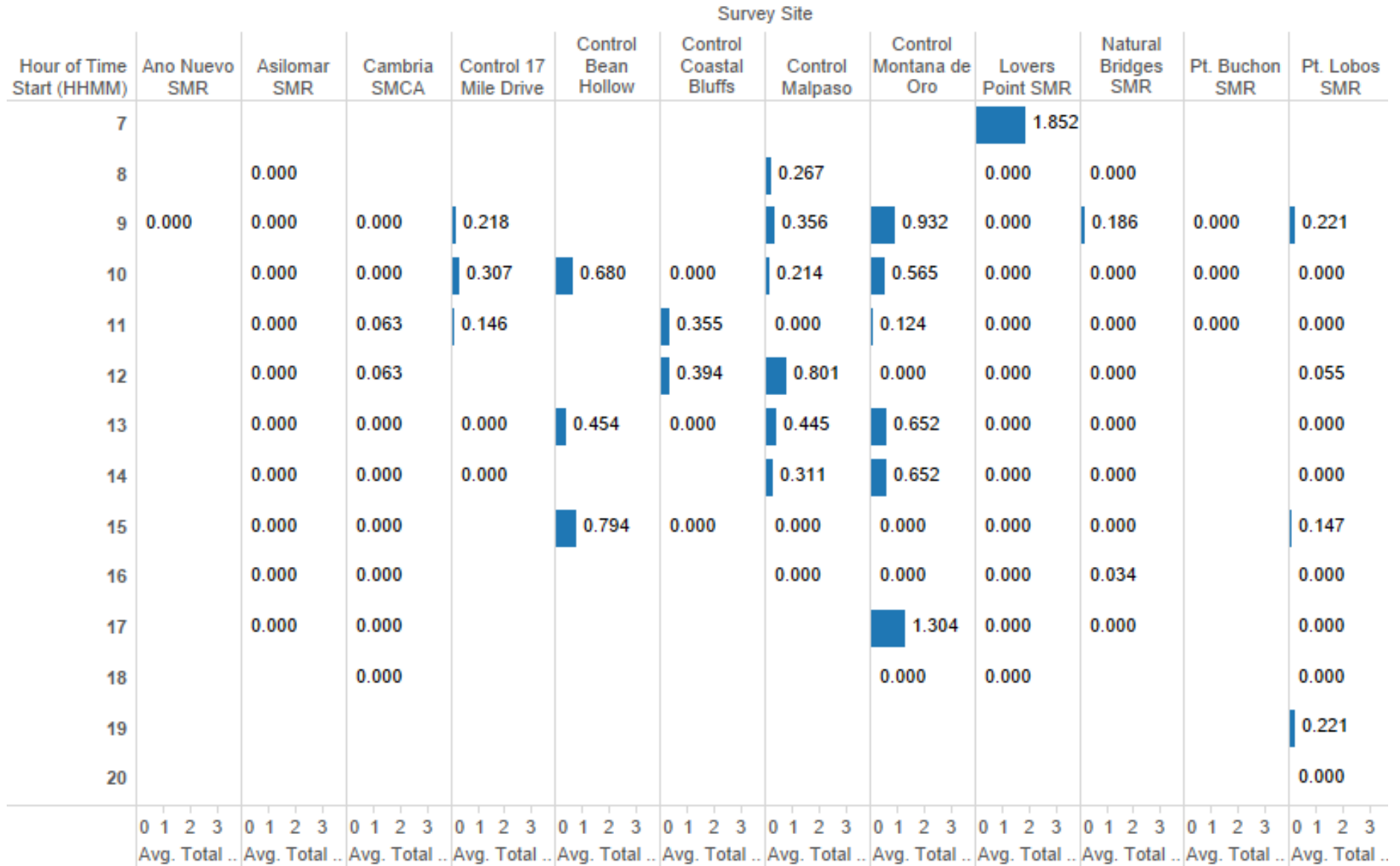


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Consumptive Trends in MPAs: Time of Day



Average Consumptive Activity Per Mile