

# The Otter Project

## MPA Watch Survey Data

### January 2012 - March 2012

#### Quarter 1

**Total surveys to date: 1470**

**Total surveys for this year: 531**

**Total surveys for this quarter: 531**

**Contributing volunteers this quarter: 49**

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.

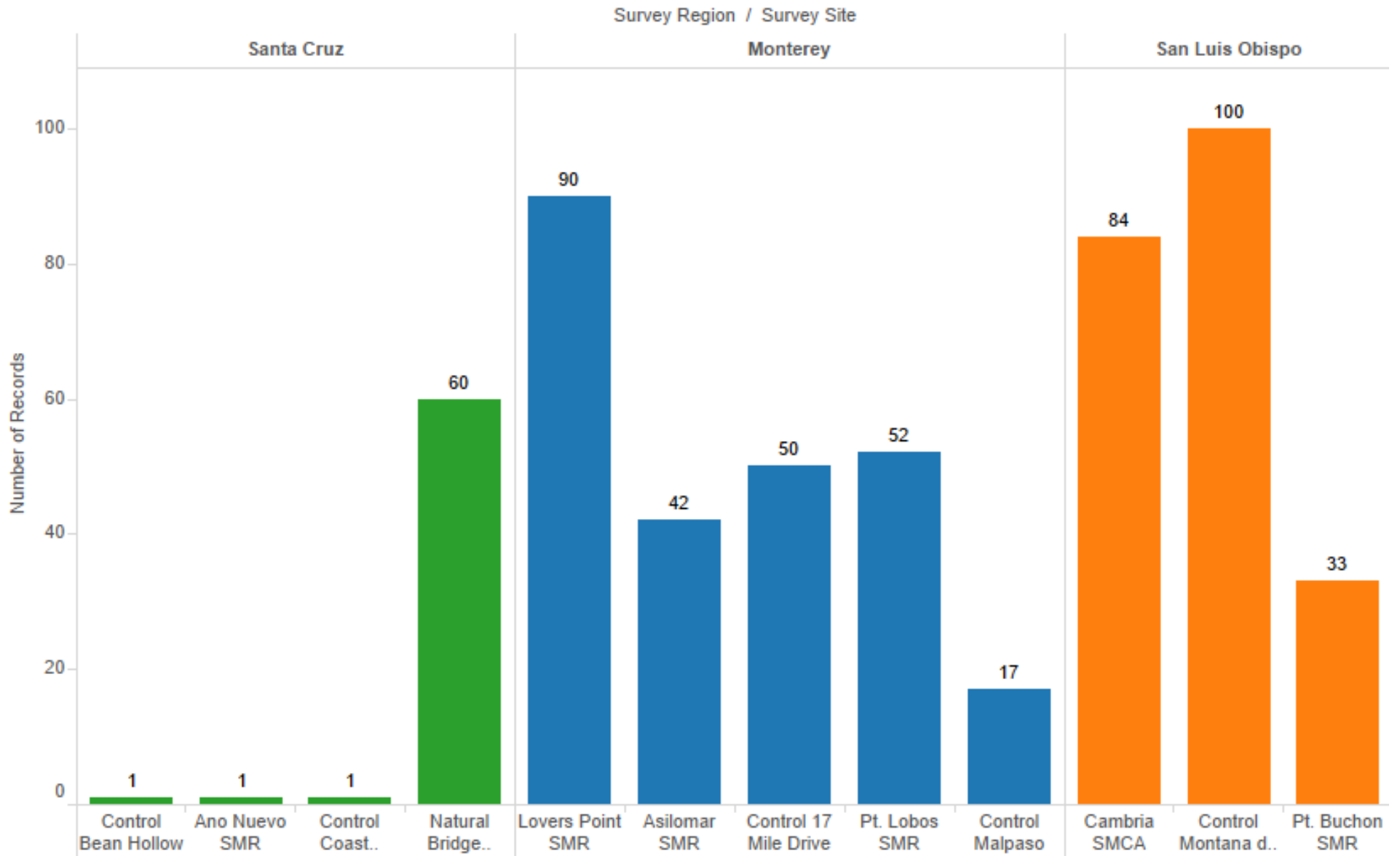
Some points to keep in mind while reading this report include:

- 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.

<p><b>Santa Cruz cumulative total: 335</b>  <b>Santa Cruz total this year: 63</b></p> <p><u>Total Per Site Quarter 1:</u>            Bean Hollow: 1            Ano Nuevo: 1            Coastal Bluffs: 1            Natural Bridges: 60</p>	<p><b>Monterey cumulative total: 728</b>  <b>Monterey total this year: 251</b></p> <p><u>Total Per Site Quarter 1:</u>            Lover's Point: 90            Asilomar: 42            17 Mile Drive: 50            Pt. Lobos: 52            Malpaso: 17</p>	<p><b>San Luis Obispo cumulative total: 407</b>  <b>San Luis Obispo total this year: 217</b></p> <p><u>Total Per Site Quarter 1:</u>            Cambria: 84            Montana de Oro: 100            Pt. Buchon: 33</p>
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**MPA Watch Survey Data**  
**January 2012 - March 2012**  
**Quarter 1**

**All Survey Sites, Number of Records**

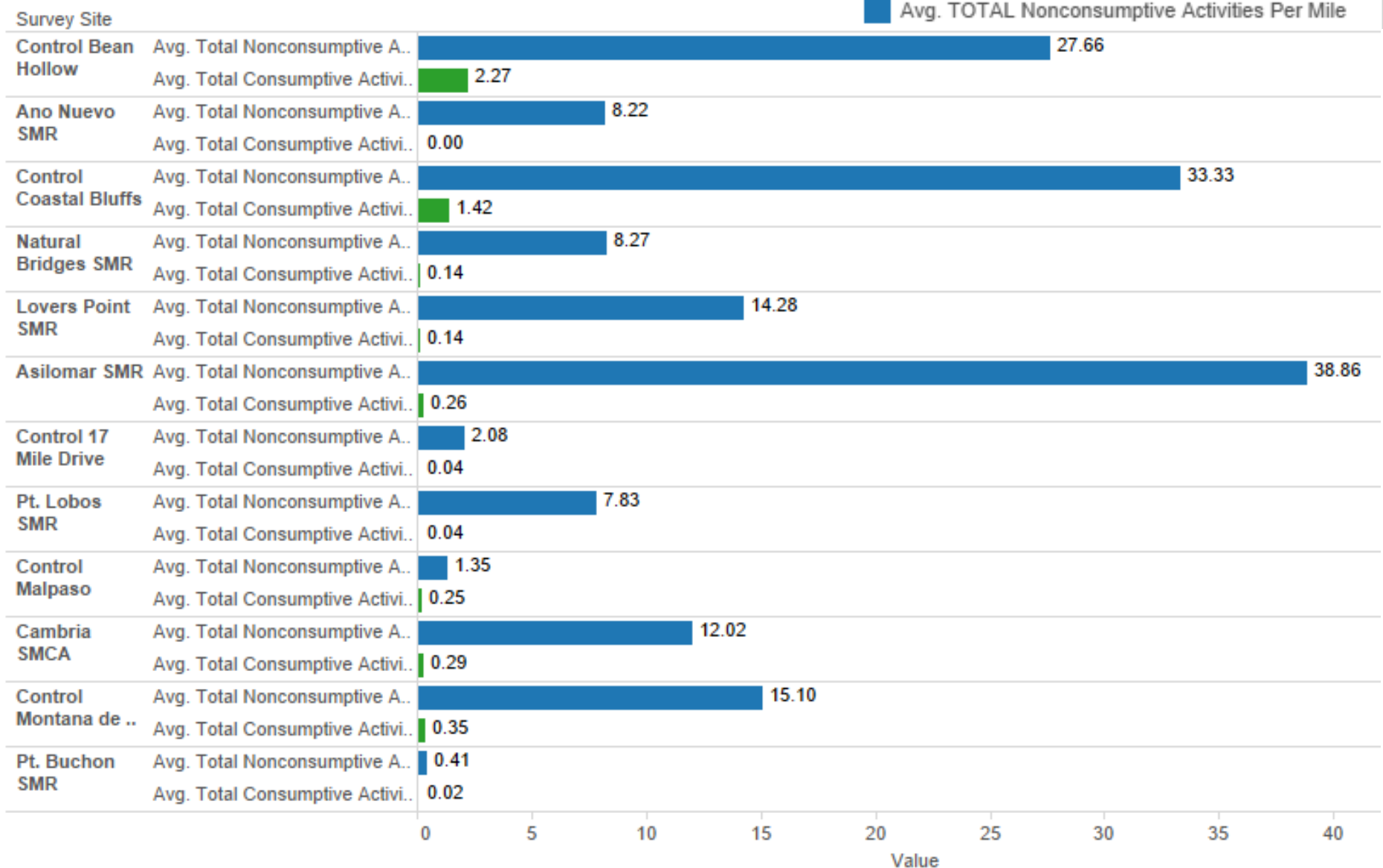


**MPA Watch Survey Data**  
**January 2012 - March 2012**  
**Quarter 1**

**All Survey Sites, Non-consumptive vs. Consumptive**

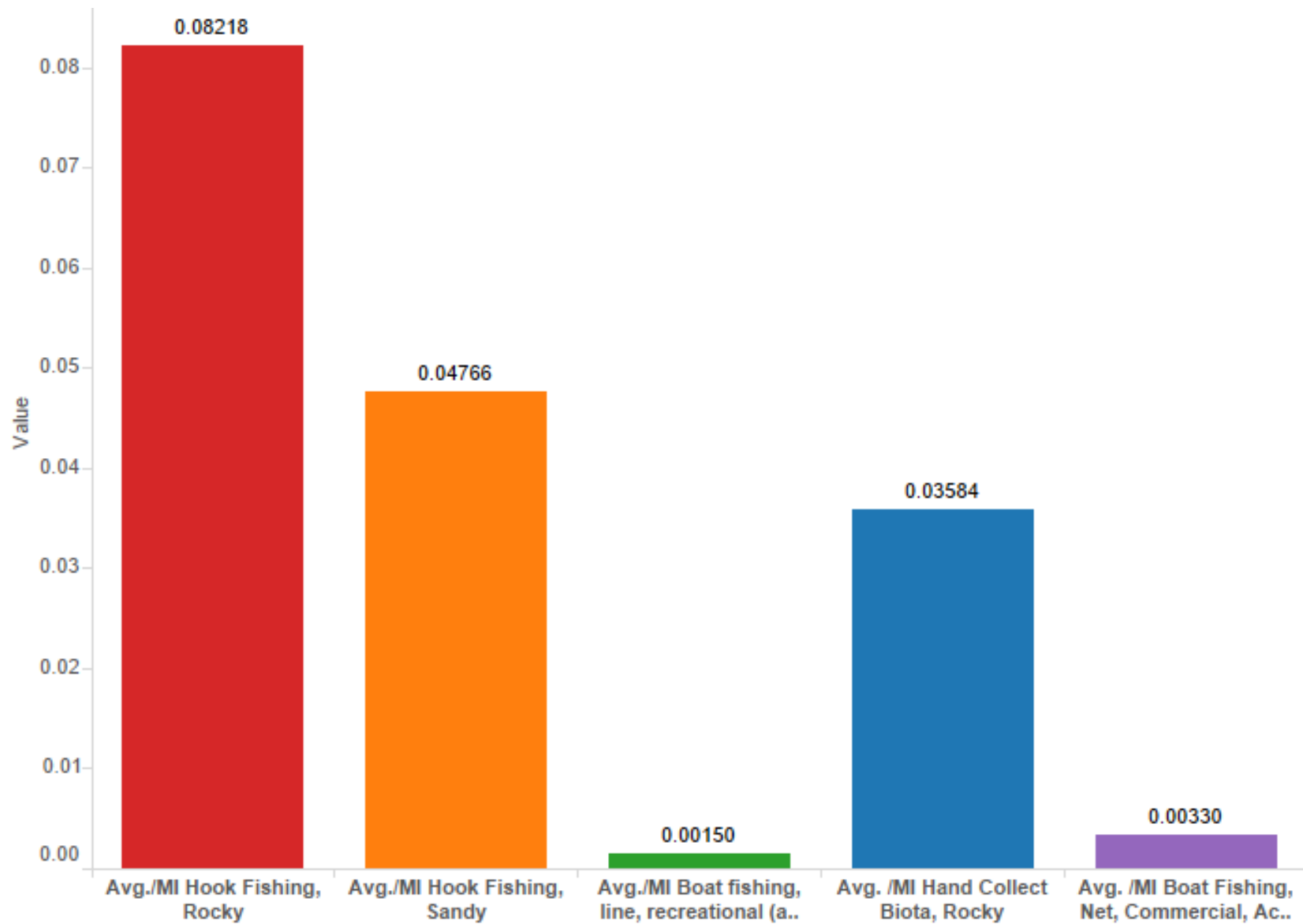
**Measure Names**

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



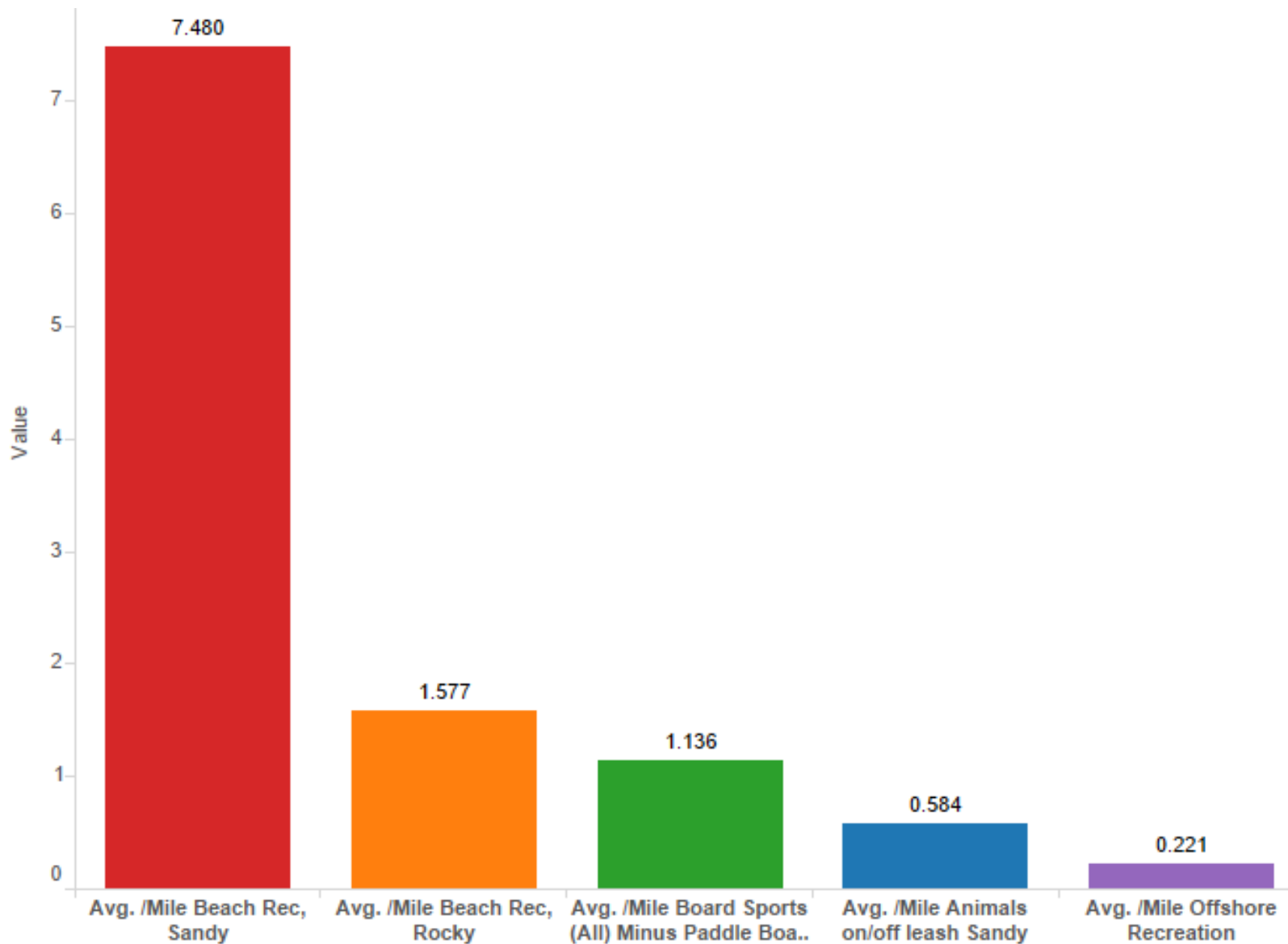
**MPA Watch Survey Data**  
**January 2012 - March 2012**  
**Quarter 1**

**All Survey Sites, Top 5 Consumptive Activities**



**MPA Watch Survey Data**  
**January 2012 - March 2012**  
**Quarter 1**

**All Survey Sites, Top 5 Non-Consumptive Activities**



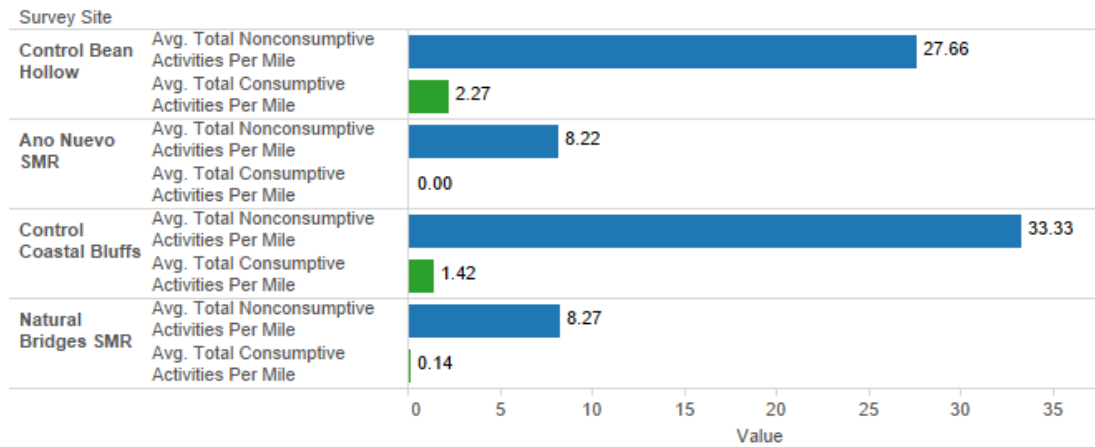
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## January 2012 - March 2012

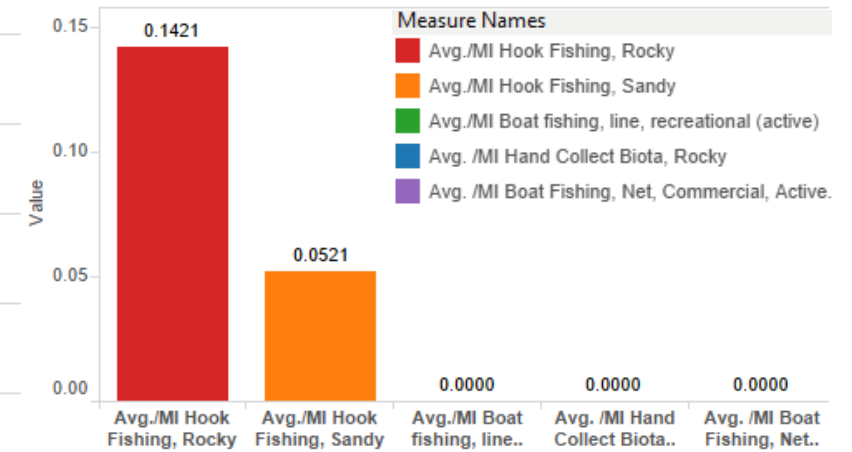
### Quarter 1

#### All Santa Cruz Sites

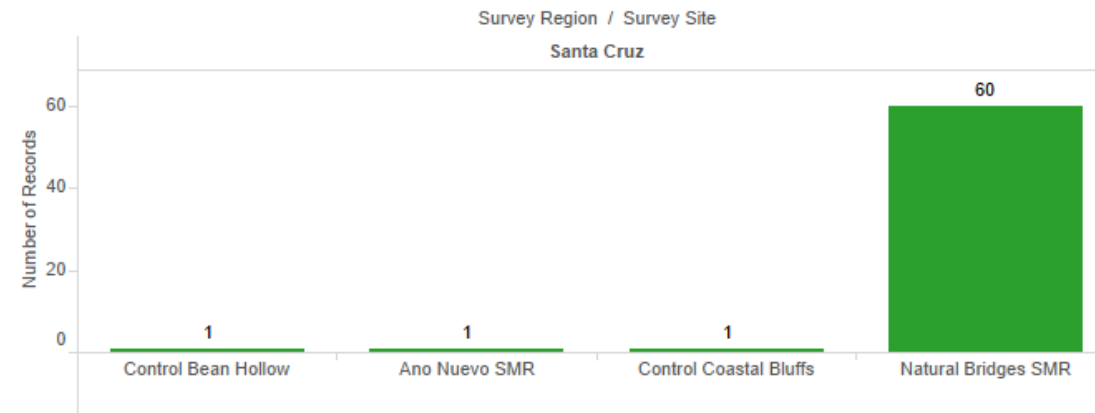
Con vs. Non-Con



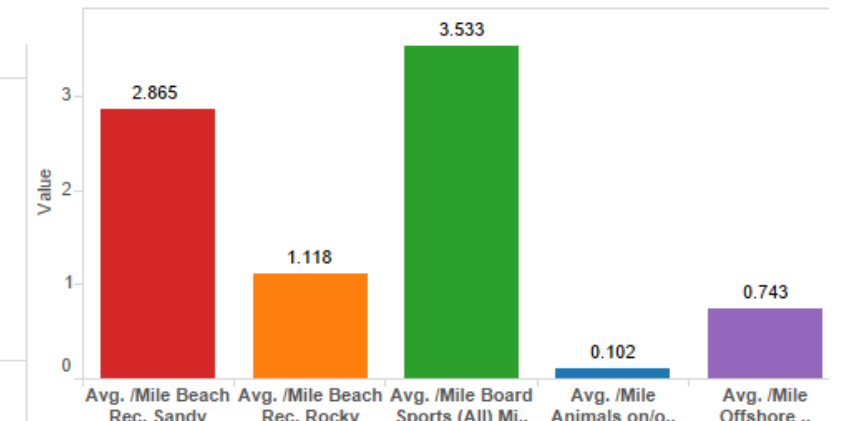
#### Top 5 Consumptive Activities



#### 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 leas Sandy
- Avg. /Mile Offshore Recreation

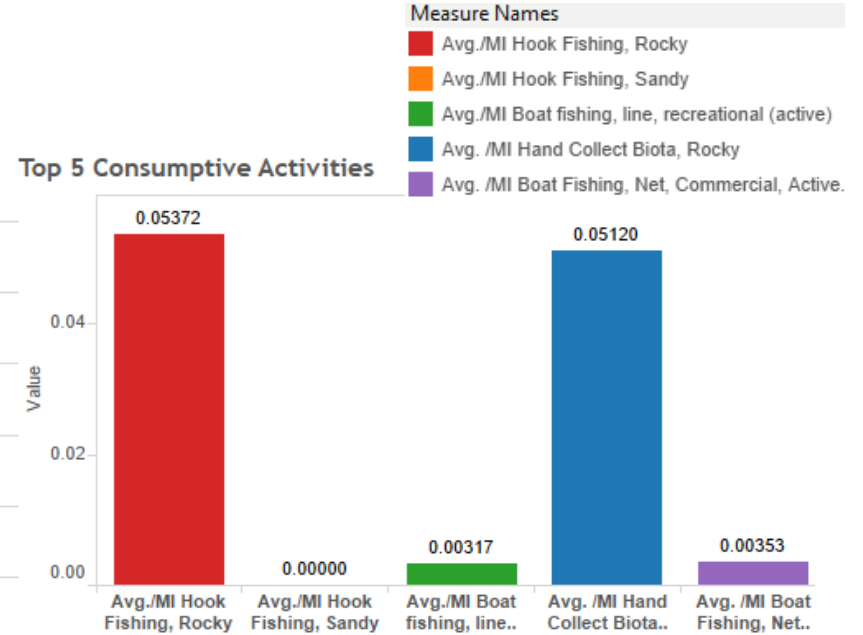
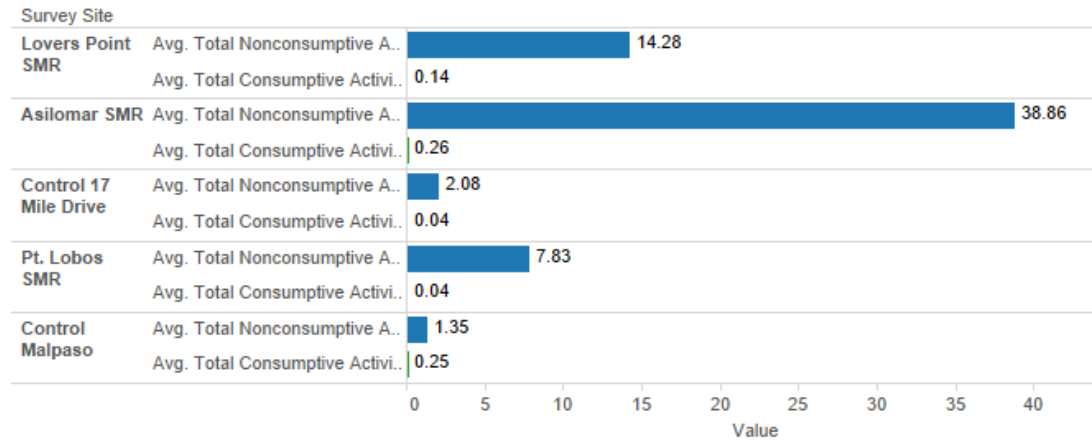
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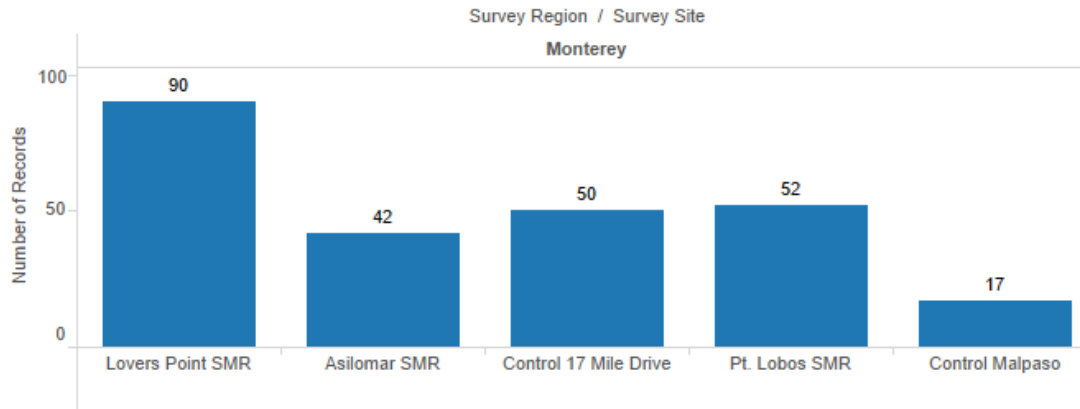
### Quarter 1

#### All Monterey Sites

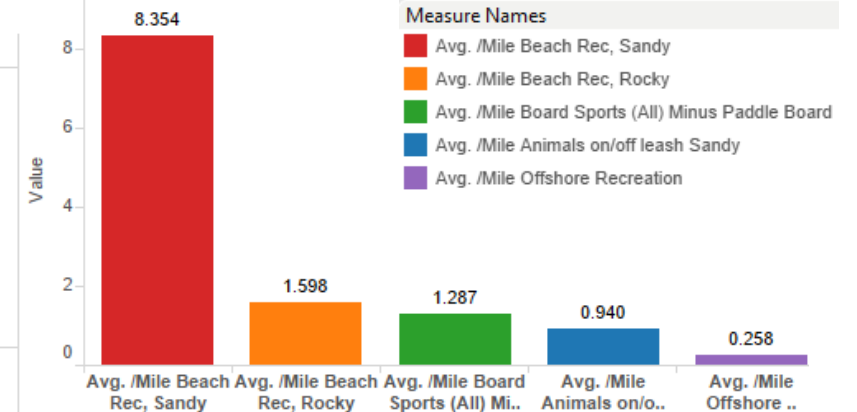
##### Con vs. Non-Con



#### Surveys by Site



#### Top 5 Non-Consumptive Activities



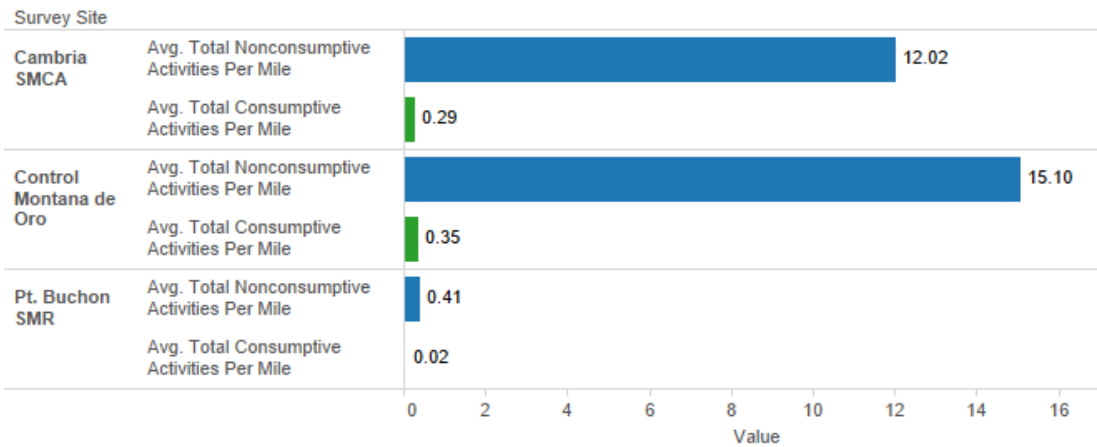
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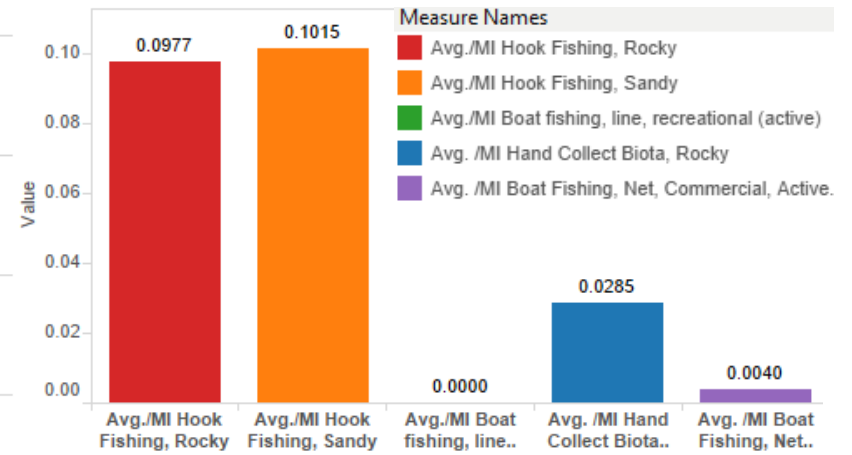
### Quarter 1

#### All San Luis Obispo Sites

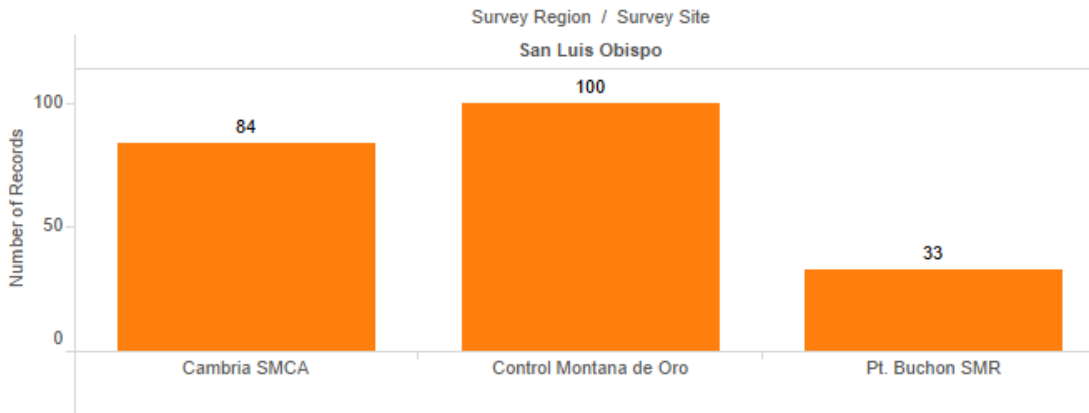
Con vs. Non-Con



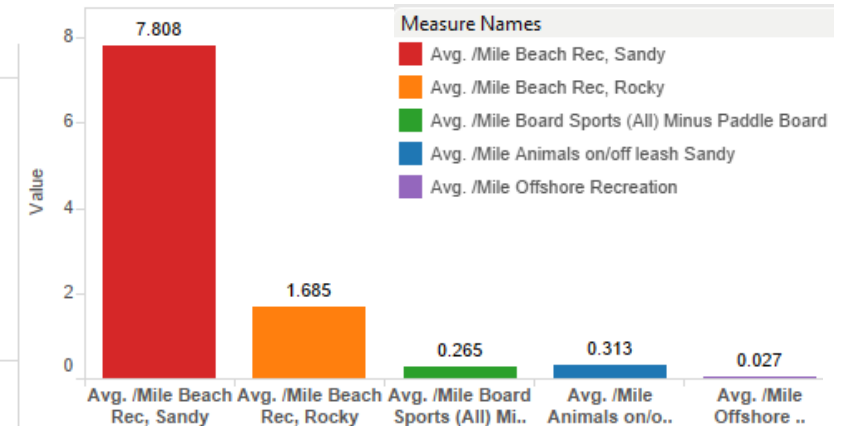
#### Top 5 Consumptive Activities



#### Surveys by Site



#### Top 5 Non-Consumptive Activities





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#### Consumptive Trends in MPAs: Time of Day

