DATA NEEDS FOR REVEALED PREFERENCE MODELS

Sabrina Lovell

Office of Science and Technology

Recreational Fisheries Data and Model Needs Workshop

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Revealed Preference Surveys
by Year

- **Northeast**
  - **2000, 2001, 2004, 2006, 2009, 2011**
- **Southeast**
  - **2000, 2003, 2006, 2009, 2011**
- **Northwest**
  - **2001, 2006, 2011**
- **Southwest**
  - **2001, 2006, 2011**
- **Alaska**
  - **2002, 2004, 2006, 2011**
- **Pacific Islands (Hawaii)**
  - **2006, 2011**

Types of Revealed Preference Data

- Mode of fishing and gear
- Target species
- Acceptable substitute target species
- Fine scale 0n the water spatial information
- Whether or not the angler took time off work to fish
- Number of trips with spatial (geographic) and seasonal delineations
- One day or multi-day trip
- Primary purpose of trip
- Hours fished
- Angler Characteristic Data

Average Number of Fisheries Regions With Adequate Data by Category (2000-2009)
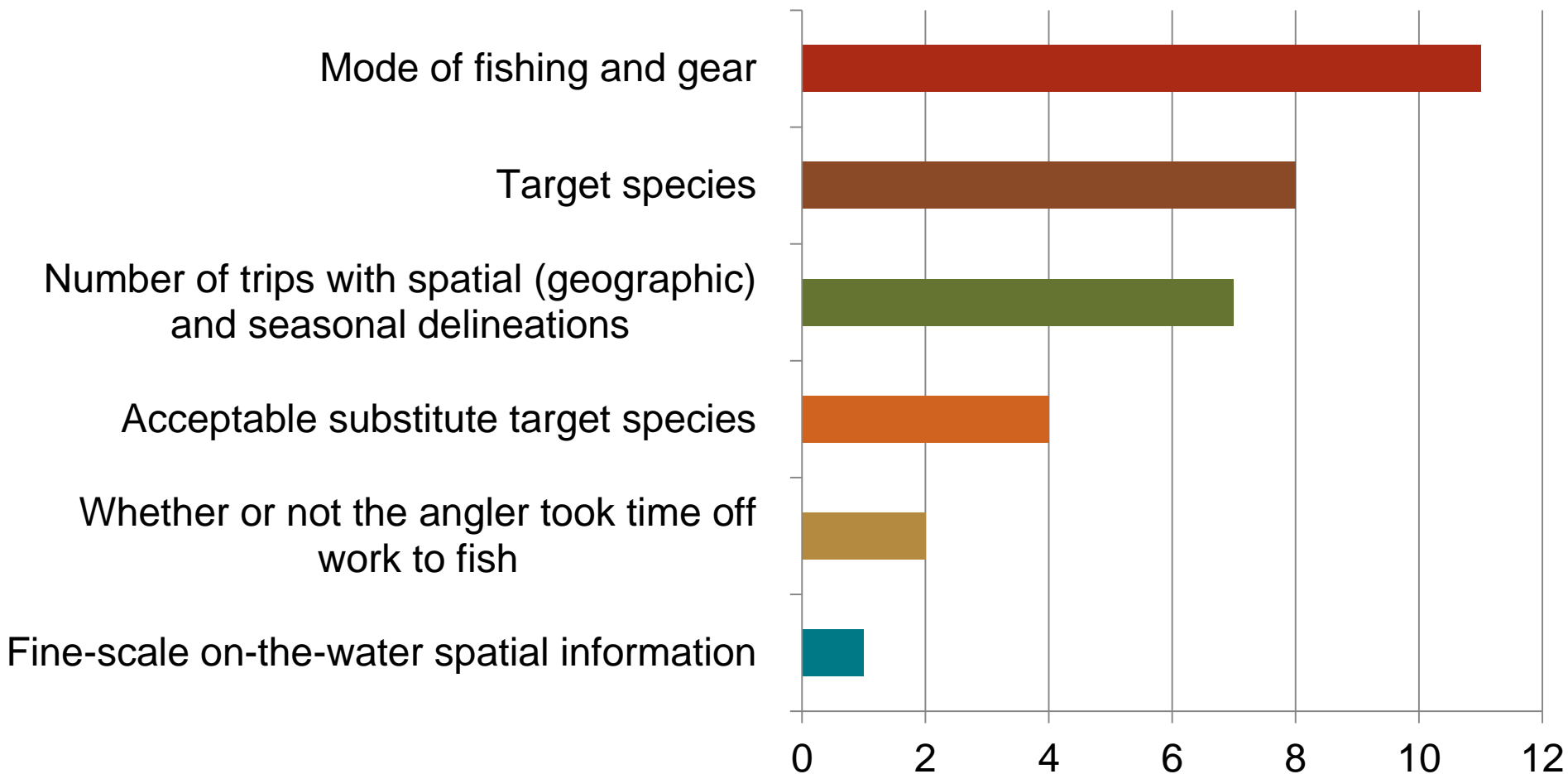
Number of Years of Adequate Data
By Fisheries Region
(2000-2009)

Data Category	Fisheries Region						
	AK	AHMS	NE	NW	PI	SE	SW
Target species	10	7	10	10	7	10	10
Acceptable substitute target species		7	10			10	
Mode of fishing and gear	3	7	10	10	7	10	10
Fine-scale on-the-water spatial information						1	
Whether or not the angler took time off work to fish		1	3	3	1	3	3
Number of trips with spatial (geographic) and seasonal delineations	10	7	10	10	7	10	10

Ranking of RP Data Priorities Across Fisheries Regions

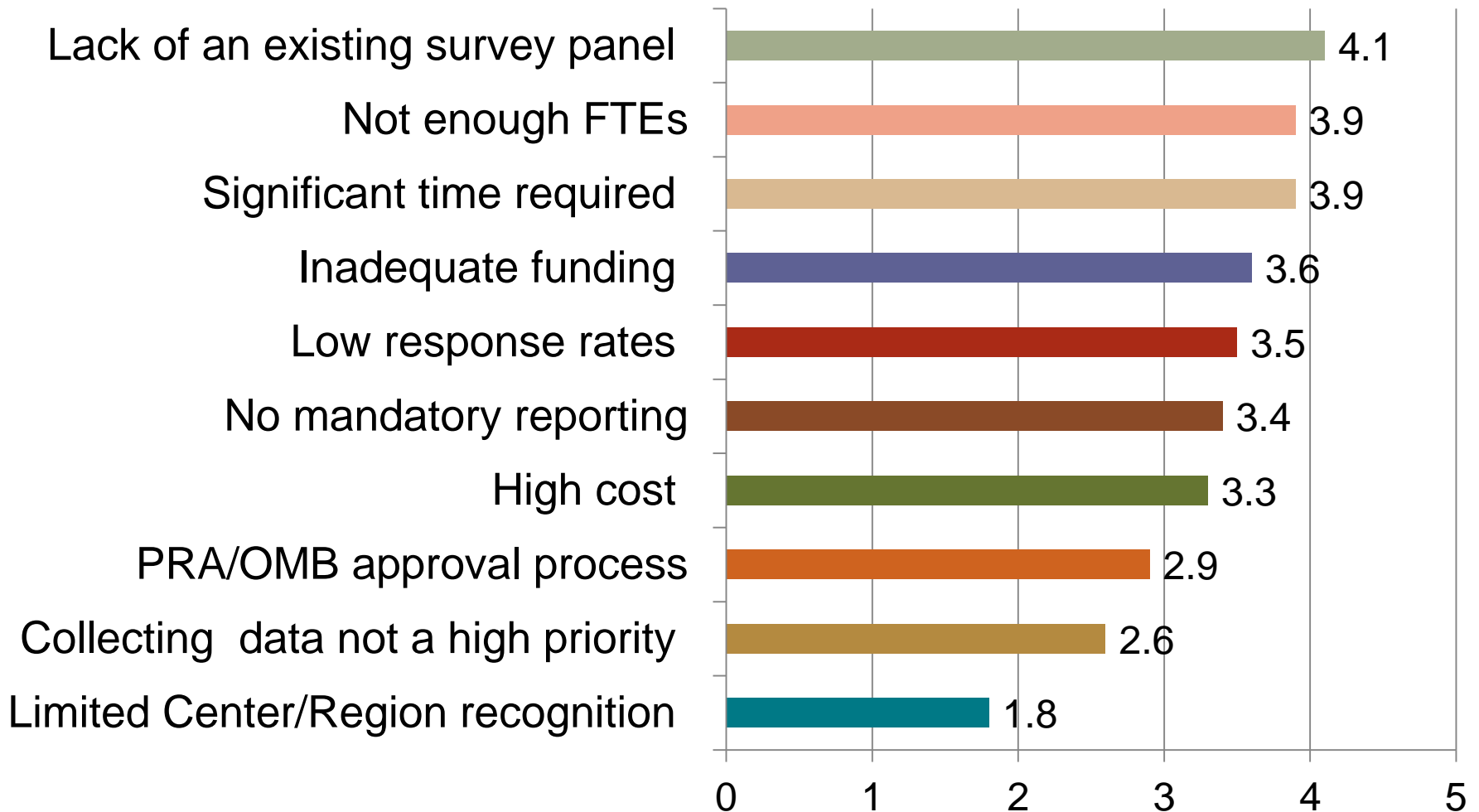| Data Category	Fisheries Regions							Count
	AK	AHMS	NE	NW	PI	SE	SW	
Target species		X			X		X	3
Acceptable substitute target species		X			X		X	3
Mode of fishing and gear		X			X		X	3
Fine-scale on-the-water spatial information					X	X	X	3
Whether or not the angler took time off work to fish					X	X	X	3
Number of trips with spatial (geographic) and seasonal delineations					X	X	X	3

Additional RP Data Priorities

- Attributes of each fishing site

- Value of alternative recreational activities

- More information on the purpose of a trip

- Why angler choose a particular target species

- In-river salmon and steelhead angler and trip characteristics

- Data for social network analysis

- Protected species interactions within boat-based and shoreline based fisheries

Obstacles

Obstacle	Rating
Lack of an existing survey panel	4.1
Not enough FTEs	3.9
Significant time required	3.9
Inadequate funding	3.6
Low response rates	3.5
No mandatory reporting	3.4
High cost	3.3
PRA/OMB approval process	2.9
Collecting data not a high priority	2.6
Limited Center/Region recognition	1.8

Additional Obstacles

- AK: ADFG does not collect information on trip level decisions as part of its yearly catch and effort survey.

- PI: Locational challenges due to multiple islands, and cultural differences in definition of recreational fishing.

- SE: Intercept data program not run by NMFS since 2002, making it hard to add econ questions in field. Texas is not included in the MRIP program.

- SW: Variations in survey methods along West Coast make it hard to get consistent trip characteristic data.

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Priorities for Improving Data

- Improve angler contact information and sampling frame.

- Improve funding for more frequent data collection.

- Increase response rates.

- Increase sample sizes.

- Improve geographic coverage of HMS angling trip data collection program.

- Standardize data collection methods across West Coast.

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Additional Data Sources or Sample Frames

- Census data by zipcode or county level
  - Household income
  - Other demographics
- National Saltwater Angler Registry license frame

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