



NOAA
FISHERIES

Data Needs for Angler Expenditures

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Recreational Fisheries Data and Model Needs Workshop

7/26/2011

Methods of Expenditure Data Collection

Different survey methods over the years

- Add on surveys to MRIP field intercepts
- Combination mail/phone and field interviews
- Telephone only surveys
- Mail only surveys



Angler Trip Expenditure Data

- Transportation (private, public, auto rental, airfare)
- Food (from grocery stores and restaurants)
- Lodging
- Boat fuel
- Boat and equipment rental
- Charter fees, tips, and catch processing
- Access and parking
- Bait
- Ice
- Tournament fees
- Gifts and souvenirs

Annual Durable Expenditure Data

- Tackle, rods and reels, other gear
- Camping equipment
- Clothing
- Binoculars
- Taxidermy
- Magazine subscriptions
- Club Dues
- License fees
- Boat purchases, boat accessories, and related expenses
- Vehicle purchases and related expenses
- Second home purchases and related expenses



NMFS Regions Reporting on Data Needs

- Alaska Fisheries Science Center and Regional Office (AK)
- Atlantic Highly Migratory Species Division (AHMS)
- Northeast Fisheries Science Center (NE)
- Southeast Fisheries Science Center and Regional Office (SE)
- Pacific Islands Fisheries Science Center and Regional Office (PI)
- Southwest Fisheries Science Center (SW)
- Northwest Fisheries Science Center and Regional Office (NW)

Expenditure Data Available by Region (2000-2009)

Region	2000	2001	2002	2003	2004	2005	2006	2007	2008	2008	2009
AK											
AHMS											
NE											
NW											
PI											
SE											
SW											

of NMFS Regions with Expenditure Data by Data Type

Data Category	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Angler trip expenditures	2		1	3			7	1		2
Angler annual and durable goods expenditures	2			3			7	1		
Expenditure location data	2			1			4	2	1	

Priorities: Survey Methods

- Regular, systematic, more timely data collection (NE)
- Better survey design methods (e.g. wording of questions)
 - to increase response rates (AK)
 - to reduce the potential for recall and measurement bias in data (SW, AK)
- Increase response rates to reduce potential for non-response bias in results (AK)
- Increase sample sizes to ensure sufficient responses for precise estimates of expenditures in each mode, resident category, and target species (AK, AHMS and SW)



Priorities: Sampling

- Standardize data collection on West Coast across three state programs and by completing state of California's efforts to have a comprehensive electronic angler license frame (SW)
- Include expenditure surveys of in-river salmon and steelhead anglers (SW)
- Include charter patrons (PI)
- Recreational fishing license program (PI)
- Sub-sample high expenditure anglers focusing on big game fish and tournaments (AHMS and PI)

Priorities: Analysis of Data

- Improve the information on location of expenditures within the larger states for use in region-specific impact models (AK, NW)
- Work with economic impact modelers to ensure expenditure categories are chosen in a way that lines up consistently with categories used by IMPLAN and other social accounting matrix categories to ensure good data inputs for impact models (AK)
- Improved web-based query access to expenditure data (NE, SE)

Obstacles

- Not enough full time staff for collecting durable economic expenditure data; reliance on national-level expenditure surveys (AK)
- The contracting process is a major obstacle (SW)
- Locational challenges due to the multiple islands, cultural differences in defining recreational fishing (PI)