



NOAA
FISHERIES

SOUTHERN CALIFORNIA CPFV INPUT/OUTPUT MODELING

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Recreational Fisheries Data and Model Needs Workshop

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San Diego Non-US Focused Marine Expenditure Study * Cost and Earnings Data Collection

- Objective:
 - What is the economic impact of San Diego commercial passenger fishing vessels (CPFV) non-US water trips?
 - What is the economic impact of Vessel fares & expenses.

- Data Collections:
 - 1: 2011 Angler Expenditure Survey
 - 2: 2011 Fleet Cost and Earning Pilot Study

- Modeling:
 - 1: Economic Impact Assessment via IMPLAN

Example of why this information is needed:

- Questions from consultant to Port of Long Beach conducting market study for facility development project.
 - Will sport fishing play a large role in our national and regional economic development?
 - Are there more nonresidents vs. residents who go sport fishing in Southern California?
 - What is the economic impact of salt water/sport fishing in the region/nation in general?
 - Additional questions about industry growth etc.

Fishery/Impact not Visible on Paper

- SD CPFV Fleet Non-US Effort
 - Anglers buy Mexican permits.
 - CRFS uses CA licenses as sample frame.
 - Not incorporated in existing sample frame.
 - Not directly covered by any US or Federal Fishery Management Plan.
 - $\sim 1/4 - 1/5$ So Cal Vessel Days.
- CA CPFV fishery not included in 2008 West Coast C&E Study.
- No current Expenditures or C&E data.
Can US Data be used as a proxie?
- Potential future regulatory analysis needed.
 - Closures
 - Allocation

SD Non-US Expenditure Study

- Utilize Multi-level Cluster Sample Approach
 - Month / Vessel – Trip – Angler (census-> sample)
 - Utilize CDFG 2 year average historic log for sample
 - Utilize current schedule for trip selection (revert to random day draw)
 - Census of Anglers
 - Ease of Implementation
 - Cluster Issues
- Analysis will utilize current year effort weights.

Challenges and Solutions

- Problems:
 - Small number of Clusters
 - Response rate correlated w trip type
 - Length of Survey
 - Day boat short version
 - Mail back / on-board collection
- Partnerships and Collaboration
 - Low response rates attract critiques
 - High # of Observations reduce variance

San Diego County Cost & Earnings Pilot

- Vessel Interviews:
 - 9 Vessels:
 - 1/2 & 3/4 Day
 - Overnight (1-2 days)
 - Mid-Range (3-6 nights)
 - Long-Range (7-14 nights)
 - Issue:
Need to select three of four groups
 - Rule of 3.
 - Potential Method:
 - Individual Survey
 - Dry run of future survey
 - Structured Consensus
 - Access to Multiple Scenarios
 - May have focus group-like characteristics

Alternative C&E Data Source

- Landing or Association Records
 - Association maintains records to broker live-bait contracts
 - “May” suffice for earnings
 - Problematic for costs



SD County Cost & Earnings Pilot

- Instrument:
 - Based on recent work in NW, NE, and Gulf States.
- Proposed Model:
 - Input-Output PAC (NWSC)



Live Bait

Long Range Planning

- Expenditure Study – 5 year cycle
 - Investigation of response rate / coverage of private marina anglers in National Study.
 - Receive numerous requests for study.

- C & E Study
 - Expansion to full study
 - Funding
 - PRA
 - Expansion throughout Southern California and State of California.