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.
  - ~\(\frac{1}{4}-\frac{1}{5}\) 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 with trip type
  - Length of Survey
    - Day boat short version
    - Mail back / on-board collection

- Partnerships and Collaboration
  - Low response rates attract critiques
  - High number of Observations reduce variance
San Diego County Cost & Earnings Pilot

- Vessel Interviews:
  - 9 Vessels:
    - ½ & ¾ 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)
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.