Recreational Meta Data Project

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Goals

- Collect disparate types of data from Hawaii’s pelagic recreational fisheries sectors
- Make data available for other researchers
- Return summary analysis and formatted data to those who supply information
- Analyze data in aggregate to locate any signals that may not be detectable within individual data sources
- Collect reports concerning recreational fishing in Hawaii
Sources of data

- Tournaments
- Clubs
- Previous Surveys
- Territorial Records
- HDAR Data
- Magazines, Newspapers, Web Sites
Summary of literature compiled

- Over 80 papers/reports/surveys scanned to PDF files
  - Tech. Memos, Admin. Reports, JIMAR Publications, Survey Reports
  - Focusing on years 1970 to present
- Main topics covered:
  - Economics
  - Surveys
  - Catch/effort
  - Management issues
- 1928-1948 Division of Fish and Game annual summaries
# Tournaments received

<table>
<thead>
<tr>
<th>Source</th>
<th>Tournament(s)</th>
<th>Years</th>
<th>Avg. # Boats</th>
<th>Type of Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii Yacht Club</td>
<td>Senoritas</td>
<td>1980-2001</td>
<td>30</td>
<td>Weigh in slips / Radio logs</td>
</tr>
<tr>
<td>Hawaii Yacht Club</td>
<td>10 different</td>
<td>1986-2001</td>
<td>6-30</td>
<td>Weigh in slips/ Radio logs</td>
</tr>
<tr>
<td>Waikiki Yacht Club</td>
<td>Rainbow</td>
<td>1999-2000</td>
<td>30</td>
<td>Radio logs</td>
</tr>
<tr>
<td>Port Allen Fishing Club</td>
<td>Kikiaola</td>
<td>2000</td>
<td>23</td>
<td>Radio logs</td>
</tr>
<tr>
<td>Westside Boat Club</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hilo Trollers</td>
<td>About 6 different</td>
<td>1981-1991</td>
<td>20</td>
<td>Radio logs</td>
</tr>
<tr>
<td>Waianae Boat Fishing Club</td>
<td>Ahi Fever</td>
<td>1997-2001</td>
<td>260</td>
<td>Weigh in slips</td>
</tr>
</tbody>
</table>
## Tournaments forthcoming

<table>
<thead>
<tr>
<th>Tournament name/Location</th>
<th>Status</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanai Rendezvous Fishing Tournament</td>
<td>Will provide after 2001 tournament</td>
<td>2001</td>
</tr>
<tr>
<td>Haleiwa Hana pa’a</td>
<td>Will provide, being compiled by tournament directors</td>
<td>all (?)</td>
</tr>
<tr>
<td>Pearl Harbor Fishing Tournament</td>
<td>“in the mail”</td>
<td>?</td>
</tr>
<tr>
<td>Keehi Boat Club Pure Jackpot</td>
<td>Will provide after 2001 tournament</td>
<td>2001</td>
</tr>
<tr>
<td>Keehi Boat Club Na Wahine</td>
<td>Will provide after 2001 tournament</td>
<td>2001</td>
</tr>
<tr>
<td>Hooters Fishing Tournament</td>
<td>“in the mail”</td>
<td>2001 (1999?)</td>
</tr>
<tr>
<td>HIBT Tournament</td>
<td>Will provide, being compiled by tournament directors</td>
<td>1959-2001</td>
</tr>
<tr>
<td>HIBT Pro/AM</td>
<td>being compiled by tournament directors</td>
<td>1959(?)-2001</td>
</tr>
<tr>
<td>Hugo's Wahine</td>
<td>being compiled by tournament directors</td>
<td>1996-2001</td>
</tr>
<tr>
<td>Rolex Tournament</td>
<td>being compiled by tournament directors</td>
<td>2000-2001</td>
</tr>
</tbody>
</table>
Handwritten radio log

Example

197 HOOLEA JET, SATURDAY JUNE 7, 1997

PAGE 1

0605 ON THE AIR
0630 ANNOUNCE TIME
0643 GOLDEN MACKIN ON STATION
0700 START FISHING ALL 22 BOATS ON THE LINE

0710 16 H/L

0717 16 ONO 20# N

0728 16 Hug N

0729 18 Hug

0732 16 Fish First

0737 18 ONO R

0804 8 2 No. Fish Aboard from Yesterday

0805 5 1 No. Fish Aboard from Yesterday (ONO)

0805 13 ONO 20# R
## Weigh in slip

Example

<table>
<thead>
<tr>
<th>Tournament:</th>
<th>King Ram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat:</td>
<td>20/20</td>
</tr>
<tr>
<td>Captain:</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td>6/10/00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fish Species</th>
<th>Weight</th>
<th>Angler</th>
<th>HIC #</th>
<th>Signature</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahi</td>
<td>9.5</td>
<td></td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Mahi</td>
<td>13.0</td>
<td></td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Ono</td>
<td>22.5</td>
<td></td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>✔️</td>
<td></td>
<td></td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Captain’s Signature:  
Date/Time of Weigh-in: 6/10/00  
Weighmaster: X X X X X X
Port Allen Fishing Club
Fishing Tournament
Port Allen Small Boat Harbor
Kauai, Hawaii July 2, 2000
Summary Based on Radio Logs:

Boats Reporting: 28
Total Pounds Reported: 3004
Total Number Fish Weighed: 41

Species       Pounds  Numbers
Ahi            2357    17
Mahi           267     10
Marlin         98      1
Ono            272     12

% By Weight
- Ahi 78.5%
- Mahimahi 8.9%
- Ono 9.1%
- Marlin 3.3%
- Barracuda 0.3%

Average weight (lbs.)

Hour of Day

Species
Senoritas Tournament

Hawaii Yacht Club
Senoritas Tournament
1980-2001

Year

Sum of Catch (lbs)

Ahi
Mahimahi
Marlin
Ono
Spearfish

Year

Top reported species by number

Hawaii Yacht Club
Senoritas Tournament
1980-2001

Year

Number of fish caught

Ahi
Mahimahi
Marlin

Catch per unit effort

Senoritas Tournament (1980-2001)
Ahi catch per unit effort (CPUE)
Catch per unit effort from 4 tournaments compared with previous studies of recreational fishing.
Ahi Fever 1997-2001 total catch in pounds

<table>
<thead>
<tr>
<th>Year</th>
<th>1997</th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum of Pounds</td>
<td>0</td>
<td>2000</td>
<td>4000</td>
<td>6000</td>
<td>8000</td>
</tr>
</tbody>
</table>

Graph showing the total catch in pounds for each year from 1997 to 2001, with categories for Ahi, Aku, Mahimahi, Marlin, and Ono.
"Marlin" weight frequencies all years combined

Previous Studies

All Tournaments Combined
"Marlin"
Percent by weight of ahi catch by area reported all years combined (1980-2001)

White Areas = No reports or less than 1%
Fish Aggregating Devices (FADS) around Oahu
Hilo Trollers % Marlin catch by weight 1981-1991

- Alpha
  - Delt: <3.0%
  - Echo: 6.0%
- Bravo
  - Delta: <3.0%
  - Foxtrot: 27.3%
- Charlie
  - Hotel: 17.5%
  - India: 19.4%
  - Golf: <3.0%
- Juliet
  - Hotel: 17.5%
  - India: 19.4%
  - Golf: <3.0%

Hilo Trollers Fishing Areas

White areas: <1.0% by weight
What’s next...

- Continue collecting tournament/club data
- Compare data with existing data sets compiled by NMFS and HDAR
- Produce a repository for distribution of non-confidential data summaries and literature
The end

Research fishing can be recreational