Economic Assessment of Boat Fishing Tournaments in Hawaii

Minling Pan NMFS, Pacific Islands Fisheries Science Center

Rusyan Jill Mamiit Adam Griesemer JIMAR, University of Hawaii



PFRP (11.14-17.2006)



Presentation Outline

- Background of the Study
- Data Collection Approach
- Tournament and Anglers' Profile
- Anglers' Expenditures
- Economic Impact of Fishing Tournament

Introduction

Fishing tournaments in Hawaii
✓ Open vs. club tournaments

 30- 35 open fishing tournaments annually in Hawaii

Attract both local residents and tourists

 Limited information available on the angler's expenditures, demand, motivations, demographics, etc.

Research Objectives

 Obtain baseline information on angler's trip expenditures, motivations, demographics, etc.

the status and potential

Understand economic importance of the open tournaments on Hawaii economy (expenditures)

data for regional impact analysis

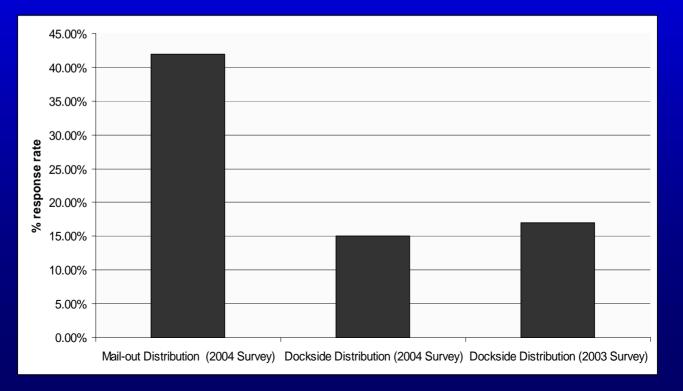
Data Collection

- Pilot study 2003
 - Dock-side distribution (form and returning envelop)
 - Low response rate
- Mail out survey 2004

Dock-side outreachMail out survey

Population and Survey Sample

	Population (N)	Sample (n)	%
# of tournaments	28	10	36%
# of teams	1300	438	34%
# of anglers	5200	804	15%



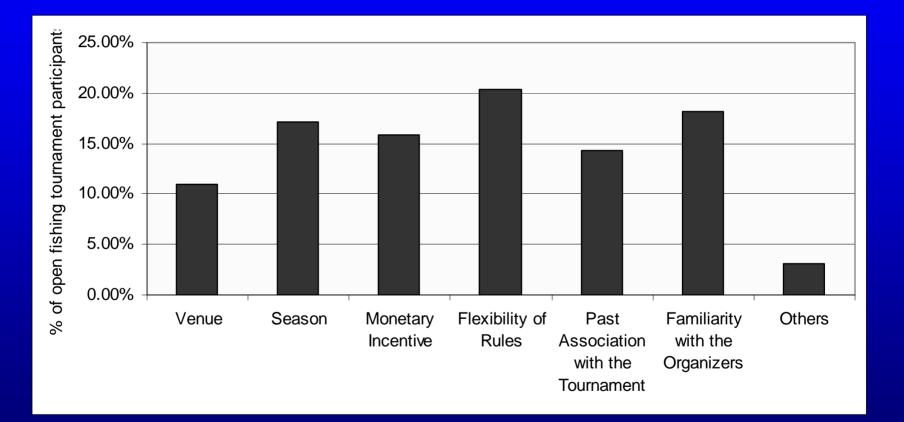
Tournament Profile

Fishing Tournament	Entry Fee (US\$)
Ahi Fever Fishing Tournament	350
Big Island Marlin Tournament	2,700
Firecracker Open Big Game Tournament	1,000
Hawaiian International Billfish Tournament	3,800
Huggo's Na Pua`O Ke Kai Wahine	350
KBC Pure Jackpot Fishing Tournament	230
Kona Classic Fishing Tournament	350
Senoritas Fishing Tournament	350
Skins Marlin Derby	3,000
World Cup Blue Marlin Championship	2,400

Anglers' Socioeconomic and Demographic Profile

- Male > Female
- Only 14% are Asians
- 26% are from out-of-state
- >25% have income \$110,000
- 22% hold commercial fishing license

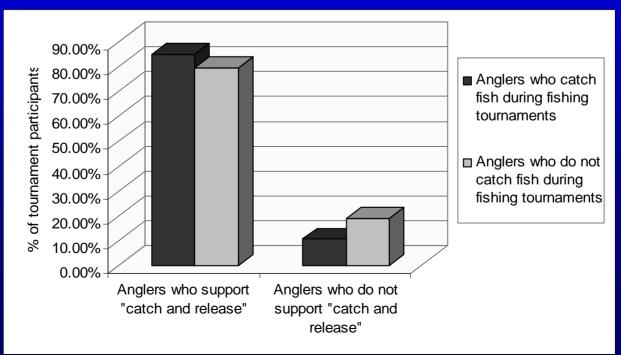
What motivates anglers to participate in a particular fishing tourneys?



Target Species

.Target Species	# of Anglers	%
No Target Species	83	30
One Species	127	46
Multiple Species	66	24

Who supports "catch and release"?



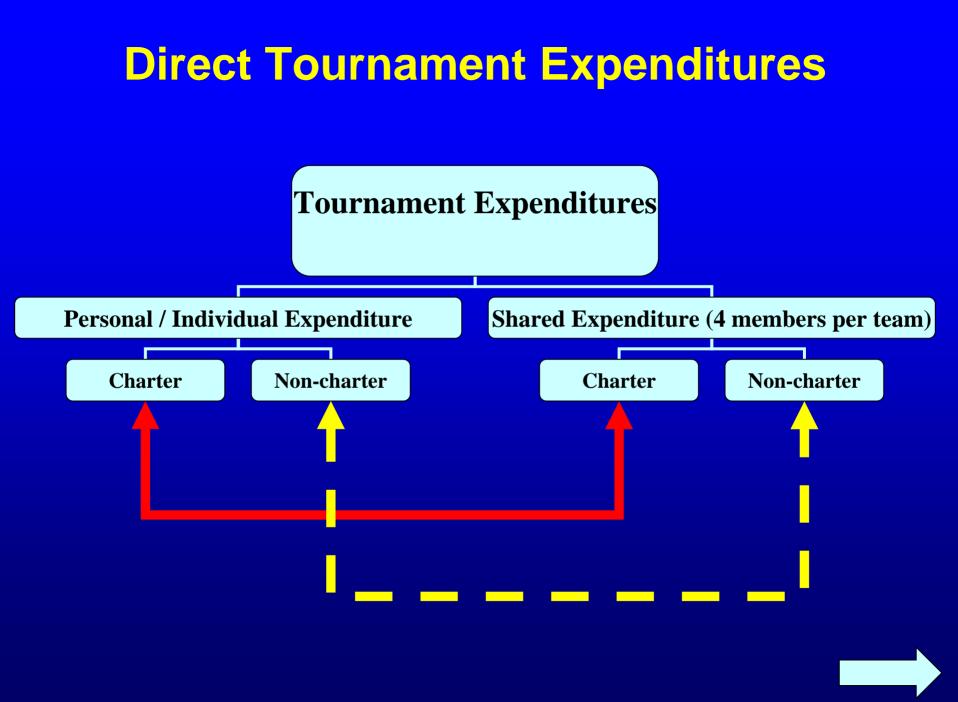
Anglers' Tournament Expenditures

(1) <u>Tournament Expenditures</u>

Expenditures per Angler Expenditures per Team of Four Anglers Expenditures of Anglers who Chartered Boats Expenditures of Anglers who did not Charter Boats

(2) Non-tournament Expenditures

Out-of-state anglers Off-island anglers





Angler's Cost Structure

- Cost items in a fishing tournament trip
 - Entry fee
 - Side bet
 - ✓ Charter fee
 - Fishing expenditure (fuel, ice, bait, etc.)
 - Travel costs

Cost for a team "shared" or "personal"

- Questionnaire design
- Database building

Individual vs. Shared Expenditures

\$ 1,482 / 4 members = \$ 371



Fishing Tournament Expenditure Per Angler 371 + 649 = 1,020





Charter vs. Non-charter Expenditures

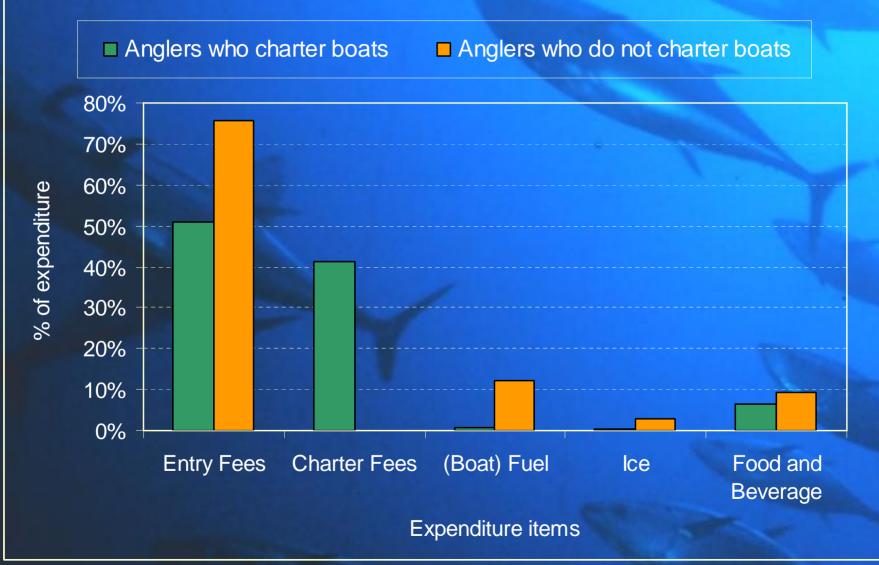
<u>Charter</u>: \$ 3,226 / 4 members = \$ 807 <u>Non-Charter</u>: \$ 918 / 4 members = \$ 230



Fishing Tournament Expenditure Per Angler <u>Charter</u>: \$807 + \$685 = \$1,492 <u>Non-Charter</u>: \$230 + \$638 = \$868

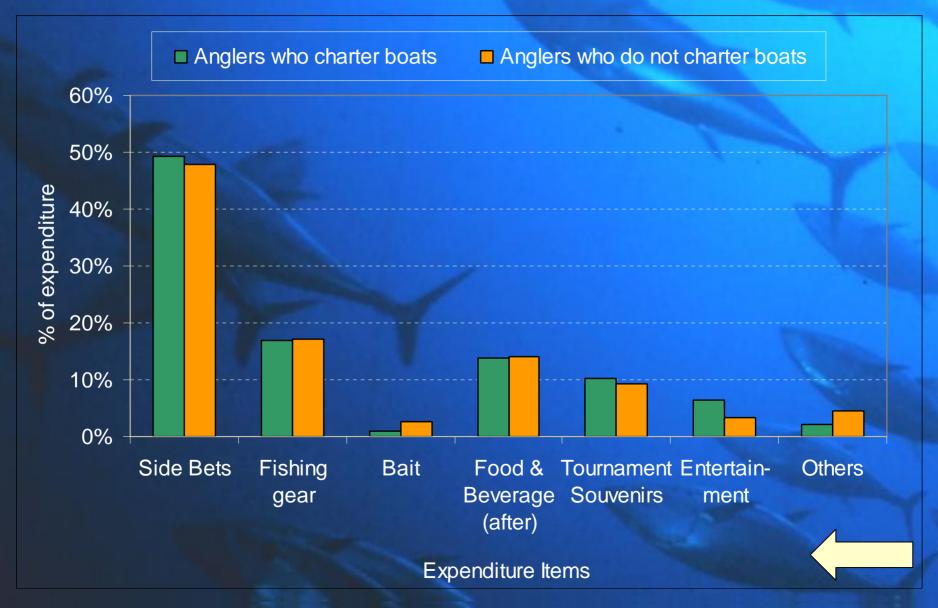


Angler's Shared Cost Structure





Angler's Personal Cost Structure



Economic Impact of Direct Tournament Spending to Local Fishing Economy

Expenditure Categories	Total Number of Anglers	Mean Expenditure Per Angler (in US\$)	Direct Economic Impact (in US\$)
Single Tournament Expenditures (a) Anglers Who Charter Boats (b) Anglers Who Use Their Own or Friend's Vessel TOTAL	2,756 2,444 5,200	1,492 868	4.1 million 2.1 million 6.2 million

Non-tournament-related Spending Out-of-state participants

Expenditure	Expenditure per Person (mean US\$)	Expenditure per Family (mean US\$)
Airfare	1,500	4,500
Car Rental	95	285
Lodging	948	1896
Dining	146	438
Entertainment	223	669
Tourist Activities	168	504
Souvenirs	206	618
TOTAL (Including Airfare)	3,286	9,858
TOTAL (Excluding Airfare)	1,786	5,358

* On average, each angler brings 2 family members or friends to the tournament.

Non-tournament-related Spending Off-island participants

Expenditure	Expenditure per Person (mean US\$)	Expenditure per Family (mean US\$)
Airfare	136	272
Boat Fuel	14	28
Car Rental	96	192
Lodging	357	357
Dining	169	338
Entertainment	77	154
Tourist Activities	33	66
Souvenirs	33	66
TOTAL (Air Transport)	901	1,445
TOTAL (Cruise)	779	1,201

* On average, each angler brings 1 family member or friend to the tournament.

Economic Impact of Open Boat Fishing Tournament to Hawaii's Economy

Expenditure Categories	Total Number of Anglers/Visitors	Mean Expenditure Per Angler (in US\$)	Direct Economic Impact (in US\$)
Single Tournament Expenditures (a) Anglers Who Charter Boats (b) Anglers Who Use Their Own or Fiend's Vessel SubTotal	2,756 2,444 5,200	1,492 868	4.1 million 2.1 million 6.2 million
Non-Tournament-Related Expenditures Out-of-State Off-Island SubTotal	2,758 207 2,965	179 129 (Air); 111(Cruise)	4.9 million 0.18 million 5.08 million

TOTAL: \$11.3 million

Mahalo nui loa!

We would like to thank NMFS Office of Science and Technology for funding the project.

This economic study is built upon a PFRP project on "Recreational Fisheries Meta-data" by Dan Curran, Paul Dalzell, and Jennifer Schultz.

Questions?

