The Hawaii Marine **Recreational Fishing** Survey (HMRFS)



Presentation Outline

- Introduction to the survey
- Components
- Data
- Basic results so far
- Preliminary conclusions



The HMRFS Project is funded through a cooperative agreement between





Hawaii Division of Aquatic Resources & National Marine Fisheries Service, NOAA, US Department of Commerce

Key Staff



HDAR Principal Investigator - Walter Ikehara

HDAR Project Manager – Dr. Matthew Parry

 HDAR Field Staff (7 surveyors,1 data worker)

•NMFS Data Analysis – Dr. Tom Sminkey

Outreach to fishers

- Regulation books
- Direct interaction Q&A
- Comment forms with response
- Site clean-ups



Web pages

http://www.hawaii.gov/dlnr/dar/surveys/

http://www.st.nmfs.gov/st1/recreational/data.html

The Hawaii Recreational Fishery Components

Private boat fishers



Charter boat fishers





Shoreline fishers

HMRFS SURVEY DESIGN





- Three Complimentary Surveys
 - Random Digit Dial Coastal Household Telephone Survey for Private Boat (& Shore Effort) - conducted by MRFSS' contractor
 - Vessel Directory Telephone Survey for Charter Boat Effort - conducted by HMRFS
 - Angler Intercept Survey for Catch Data & Adjustments for Effort Estimates - conducted by HMRFS

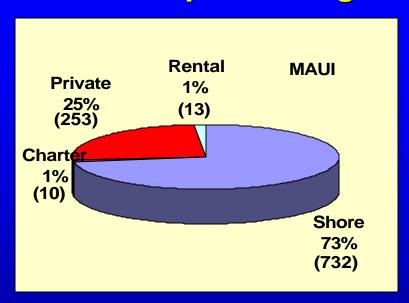
The survey form

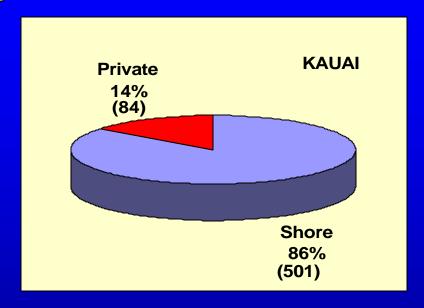
4. YR/MO/DAY 7. ST	ATE CODE 8. COUNTY CODE 9. SITE CODE	3 Eaten / plan to eat 9 Refused
4. INMODAL	ALE GODE G. GODINI GODE G. GITE GODE	4 Used for bait / plan to use for bait 0 Exchange, Trade 5 Sold / plan to sell
	NTERVIEW STATUS 1 Questionnaire Complete	o contribution
5. INTERCEPT NO.	(Key Item = *) 2 Refused Non-Key Item	TYPE 2 RECORDS; (INDIVIDUAL CATCH UNAVAILABLE IN WHOLE FORM)
	5 Refused Key Item	NAME SPECIES CODE #OF FISH DISP NAME SPECIES CODE #OF FISH DISP
		INVANCE STEELE COSE WITHOUT DIST.
READ PRIVACY ACT. This study is being conducted in accordance answer any question that you consider to be an invasion of your pri		1
*11. Would you say you were fishing from a	vacy.	
	17. Not counting today, within the past 12 months,	3·
1. Pier/Dock CH 7. Charterboat	that is since (insert month) of last year, how many	
la Distriction Description	days have you gone recreational saltwater fin fishing in Hawaii?	
SH 2 Jetty, Breakwater, Breachway PR 8 Private Boat		7
4. Other Man-made Structure (Specify)	No. of Days, Code 998 Don't Know Code 999 If Refused	
5. Natural Shoreline (beach,cliffside,etc)	Code 333 II Neidaed	9
*12. Was most of your (specify mode) fishing effort today in the	18. Not counting today, within the past 2 months,	*25. Did you catch any fish I can look at? *28. How many fishermen including yourself have their catch
1. Ocean	how many days have you gone recreational saltwater finfishing in Hawaii?	1 Yes here? Please do not include anyone who did not catch
4. Bay 5. Other (Specify) Code q. 13 as "8"		fish. Only count those who have their catch here. 2 No - Code q. 26, 27, 28 as "8s," Not Applicable
S. Citier (Specify)	No. of Days, Code 98 Don't Know	□ No of Contributors M□ Not Applicable
	Code 99 If Refused	5 163, BOT Hall OII dillottlet Hallethiell's IOIII-
*13. Was that 1. Three Miles or Less from Shore 2. More than Three Miles 8. Does not apply.		Fill in Interview # where fish are listed *29. How many people fished on your boat today?
13a. If 13 = "More than Three Miles", then:		Code q. 26, 27, 28 as "8's", Not Applicable No. of People 88 N/A-Shore Mode
Were you fishing at or near a Fish Attracting Device (FAD) today?	19. Do you ever sell any of the fish you catch?	*26. Did you catch these yourself or did
Yes No	1 Yes 2 No, Go to 20	someone else catch some of them? BOX D.If response to q. 29 is 1 or Shore Mode, code as
At which FAD(s) did you fish today?	↓	All Caught by fishermen Code q. 27, 28, as "8's," Not Applicable ("8," Not Applicable. Otherwise, is this the first fishermen
At which i Ab(a) did you han today i	19a. When you sell your fish, do you consider yourself a	2 Other Contributors 8 Not Applicable from this boat that I have interviewed?
	commercial fisherman, trying to make some income	1 Yes 8 N/A or Shore Mode
14. What type of gear was primarily used?	or do you sell only to cover your fishing expenses?	*27.Can you separate out your Individual catch? 2 No - Record Interview # of 1**
01 Rod & Reel 11 Trap	1 For Income 2 Trip Costs Only, Go to 20	1 Yes -Code 28 as "68's" fishermen in the fishing party. *
→ Go to 14a. 12 Spear	▼	2 No 8 Not Applicable
02 Hand Line 13 Hand	19b. Do you consider yourself a full-time commercial	
	fichaman?	
Go to 14b. 14 Crab Net	fisherman?	*30.AVAILABLE CATCH. COMPLETE TYPE 3 RECORD BY ASKING: May I look at your fish? What do you plan to do with the MAJORITY of the (species)?
□ Go to 14b. 14 Crab Net 13 Hand Pole 15 Other (Specify)	1 Yes 2 No	of the (species)?
□ Go to 14b. 14 Crab Net 14 Crab Net 14 Scoop Net 14 Scoop Net 15 Crab Net 16 Crab Net	1 Yes 2 No *20. What is your state and island or county of residence?	
→ Go to 14b. 14	1 Yes 2 No	of the (species)? DISPOSITION CODES FOR Q30
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Go to 14b. 14 Crab Net 33 Hand Pole 15 Other (Specify) 45 Scopp Net 55 Throw Net 98 Unknown 66 Gill Net 99 Refused 77 Cross Net 88 Hukilau 99 Surround Net 10 Trawl 14a. What METHOD was primarily used? 1. Trolling 2. Casting Go to 15 3. Bottom Fishing or hand lining were you 1. Shallow Water (-20 firms) 2. Deep Water (+ 20 firms) 3. Truen Handling (Hand Line Only) 15a. To the nearest half-hour, how many hours have you spent (specify mode) fishing to day? That is, how many hours have you actually spent with your gear in the water? 15b. (Only ask if natural shoreline mode [#1]. SH=5] How many additional hours do you expect to fish from shore today? That is, how many more hours will you actually have your gear in the water?	*20. What is your state and island or county of residence? If county unknown ask: What city or town do you live in? State Code: Name	of the (species)? DISPOSITION CODES FOR Q30 3 Eaten / plan to eat
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Go to 14b. 14 Crab Net 33 Hand Pole 15 Other (Specify) 45 Scopp Net 55 Throw Net 98 Unknown 66 Gill Net 99 Refused 77 Cross Net 88 Hukilau 99 Surround Net 10 Trawl 14a. What METHOD was primarily used? 1. Trolling 2. Casting Go to 15 3. Bottom Fishing or hand lining were you 1. Shallow Water (-20 firms) 2. Deep Water (+ 20 firms) 3. Truen Handling (Hand Line Only) 15a. To the nearest half-hour, how many hours have you spent (specify mode) fishing to day? That is, how many hours have you actually spent with your gear in the water? 15b. (Only ask if natural shoreline mode [#1]. SH=5] How many additional hours do you expect to fish from shore today? That is, how many more hours will you actually have your gear in the water?	*20. What is your state and island or country of residence? *f country unknown ask: What city or town do you live in? State Code: Name Country - Island Code; Name 21. What is the zip code of your residence? Zip Code Code: 99997 Foreign Country Code: 99998 Pentised 22. Do you live in a private residence, or in some type of housing such as a dorm, barracks, nursing home or rooming house? Private Residence 8 Don't Know	of the (species)? DISPOSITION CODES FOR Q30 3 Easten / plan to eat

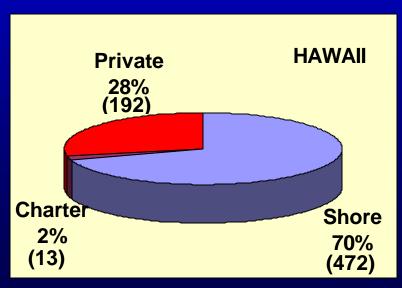
RDD Telephone Survey Contacted Households Annual by Type

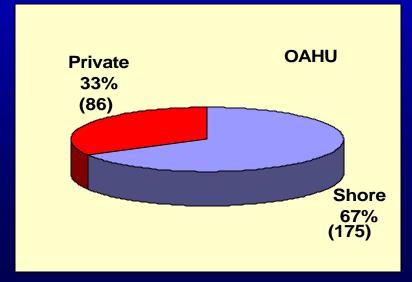
	2001		2002	
	Jan - Dec		Jan - Jun	
	OV4/		0)4/	
	SW		SW	
	FISH	Total	FISH	Total
Hawaii				
(%)	13.4%	3629	11.5%	1857
Oahu				
(%)	7.4%	3679	4.9%	1826
Maui				
(%)	14.2%	4016	10.3%	1654
Kauai				
(%)	17.4%	2103	11.3%	1225

HMRFS RDD Telephone Survey Reported Angler Trips – Nov/Dec 2001

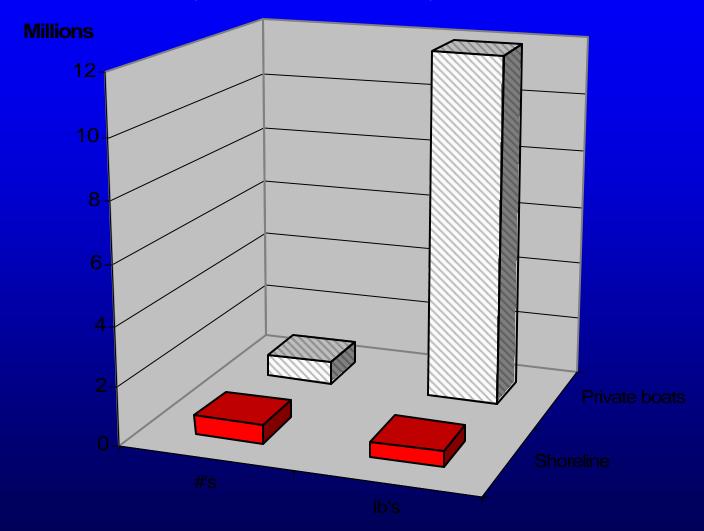




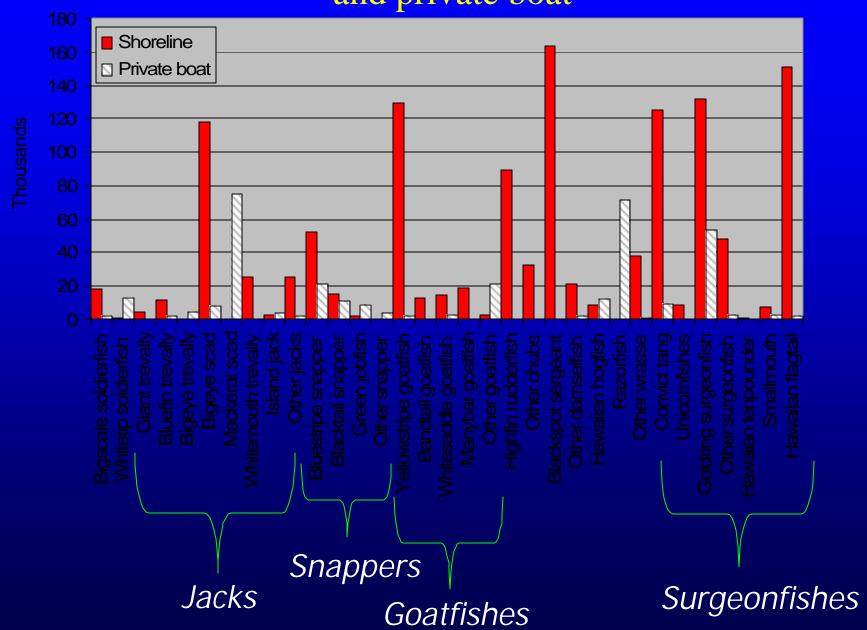




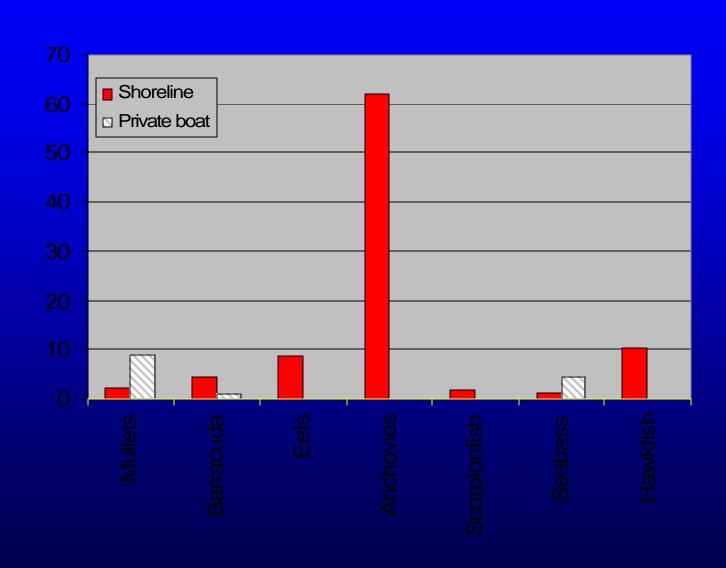
Comparison of total 2003 private boat and shoreline fisheries (numbers & lb's)



Summary of 2002-2003 reef fish species catch, shoreline and private boat



Summary of 2002-2003 reef fish groups catch, shoreline and private boat



Preliminary findings

- 2-3X more shoreline trips than boat trips
- Total numbers of catch roughly equal between private boat and shoreline fisheries
- Total lbs of catch roughly an order of magnitude greater for private boat than shoreline fishery
- Shoreline fishery composed of many species, but only a handful are major components

Thanks, and keep participating!

