

iSnapper: An "App" for Collecting Catch Data

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Objectives:

1. To develop a “smart phone” application that functions as an electronic logbook
2. Pilot and evaluate the acceptance and efficacy of this technology by vessel owners/captains
3. Test the applicability of the “app” to collect socio-economic data from participants in the fishery

*GET COLLECTING THE DATA THAT WE NEED TO MAKE INFORMED DECISIONS



Participation:

- 2011 red snapper recreational season – 16 captains
- Strong participation and captain buy-in
- TX – FL with Range of fishing types:
 - Reef/bottom fishers, Headboats, Bluewater billfishers

	# Vessels	Total Trips	# Trips w/ Red Snapper
TX	11	192	147
FL	3	97	90
AL	1	27	25
LA	1	11	9
Total	16	327	271

App placed on iPad or iPhone



Trip screen

The screenshot shows the 'iSnapper Trip' screen on a tablet. The interface is divided into a left sidebar menu and a main data entry area. The status bar at the top shows 'AT&T', '11:26 AM', and '82%' battery. The sidebar menu includes: Setup, New Trip, Edit Trip, Trip Summary, Record Inactivity, and Saltwater Fishing Survey. The main area displays the following information:

- Trip No:** 1004100021
- Depart Date Time:** 05/13/2012 08:20 AM (with a **Hail Out** button)
- Arrival Date Time:** 05/13/2012 03:20 PM (with a **Hail In** button)
- State:** Texas
- Area / Sub area:** Gulf of Mexico
- County Name:** Nueces
- Passenger:** 1
- Anglers:** 3
- Crew:** 1
- Fishing Method:** Hook and Line
- Target Species 1:** Red Snapper
- Target Species 2:** King Mackerel
- Percent Time Fished:** 90 (Greater Than 10 Miles (Federal Waters)), 10 (Less Than or Equal to 10 Miles (State Waters)), 0 (Inland)
- Depth Fished:** 150 (Min to Max) to 200
- Pay Type:** Per Group
- Trip Duration:** 3/4 Day
- Hours Fished:** 6

At the bottom of the form are two buttons: **Enter New Stop** (highlighted with a yellow arrow) and **Submit Trip**. A yellow callout box at the bottom right contains the text: **Initiates Stop/Catch data**.

Stop and catch screen

11:26 AM 87%

Trip Record Catch Edit Favorites

Trip Number: 1620 Stop Number: 104

Location

Latitude: 27.717 Longitude: -97.329

Select Species: King Mackerel

Number Kept: 2 Total Weight: 30

Released Alive <=120 Ft: 1 Released Alive > 120 Ft: 1 Released Dead: 2

Save

11:21 AM

83%

Trip

Record Catch

Edit Favorites

Species

	Red Snapper
FAVORITES	King Mackerel
BILLFISH	
DRUMS	

Number: 102

King Mackerel 

Released Alive <=120 Ft:

1

Released Alive > 120 Ft:

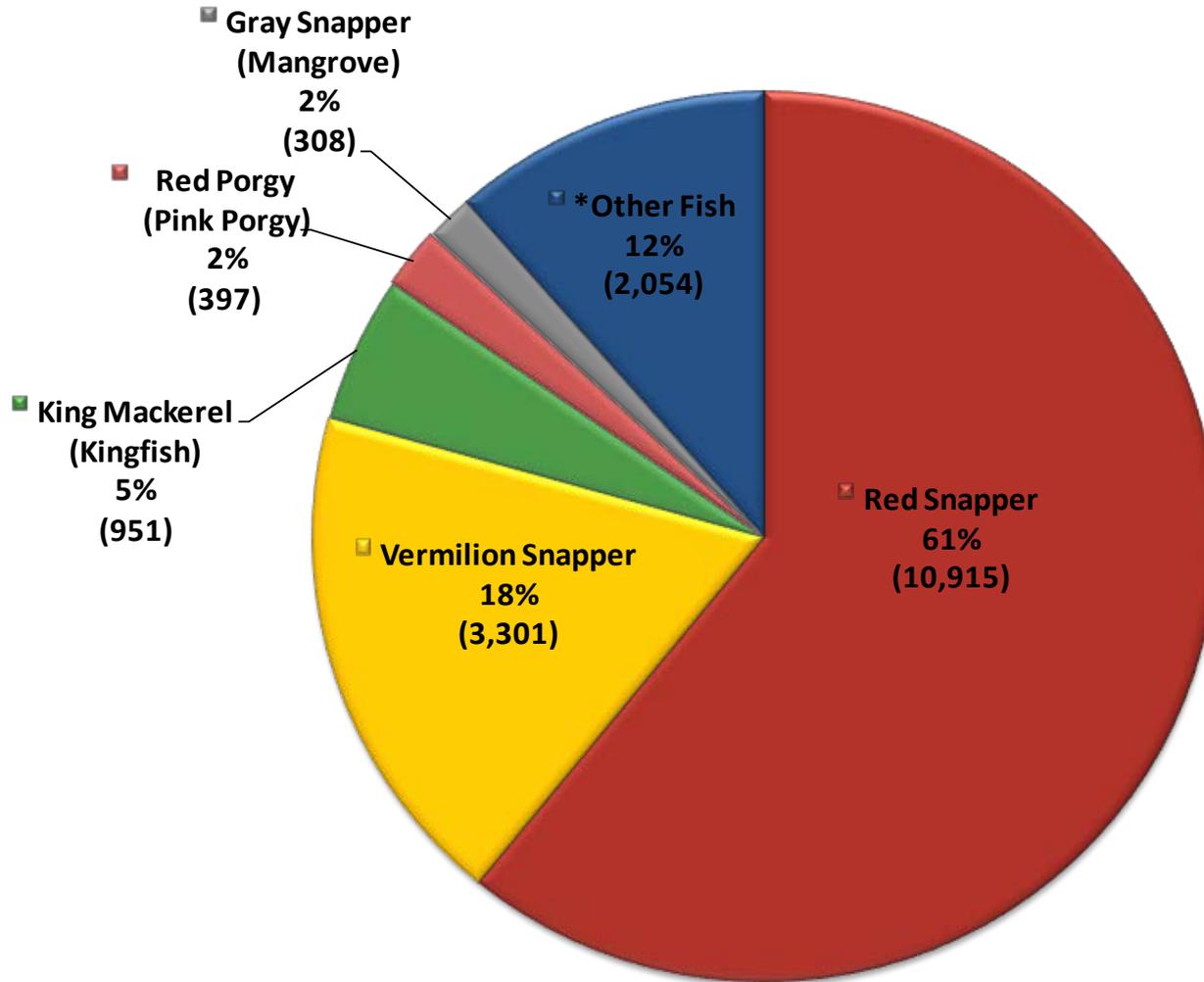
1

Released Dead:

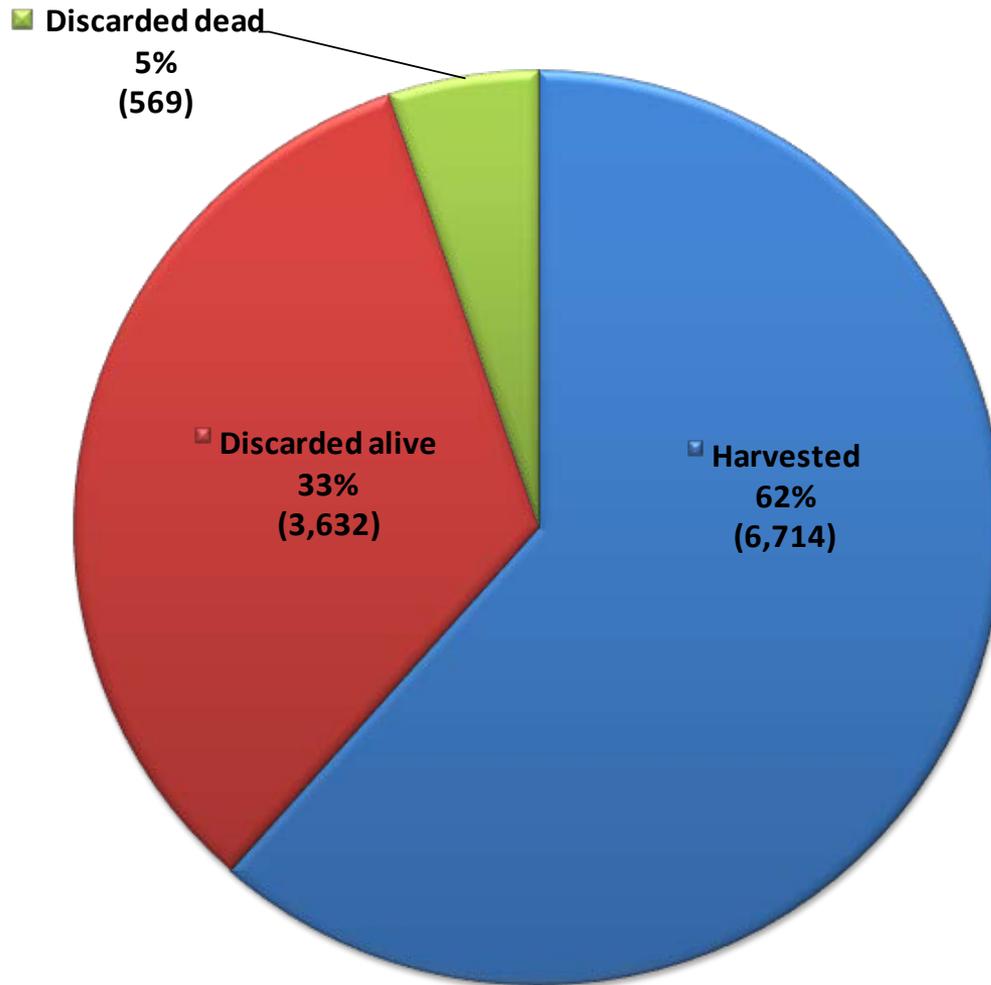
2

Save

Reported Catch (# fish)



Red Snapper Catch (# of fish)



Setup

New Trip

Edit Trip

Trip Summary

Record Inactivity

Saltwater Fishing Survey

Socio-economic survey

Trip No: 1004100021

Depart Date Time

05/13/2012 08:20 AM

Hail Out

Arrival Date Time

05/13/2012 03:20 PM

Hail In

State

Texas

Area / Sub area

Gulf of Mexico

County Name

Nueces

Passenger

1

Anglers

3

Crew

1

Fishing Method

Hook and Line

Target Species 1

Red Snapper

Target Species 2

King Mackerel

Percent Time Fished

90

Greater Than 10 Miles (Federal Waters)

10

Less Than or Equal to 10 Miles (State Waters)

0

Inland

Depth Fished

Min to Max

150

to

200

Pay Type

Per Group

Trip Duration

3/4 Day

Hours Fished

6

Enter New Stop

Submit Trip

[Main Menu](#)

Survey

iSnapper

Saltwater Fishing Participation Survey

Thank you for participating in this survey. Your contribution is an important part of effectively managing our fisheries resources. This survey is completely voluntary. There are no questions that will identify you as an individual and all responses are anonymous. The captain and crew of this vessel will not have access to the individual survey responses. Once you hit the submit button, the questionnaire will be sent to a secure database that only the project team at Texas A&M University-Corpus Christi will have access to. Thank you once again.

[Please review the information sheet.](#)

No Thanks

Take Survey

Saltwater Fishing Participation Survey

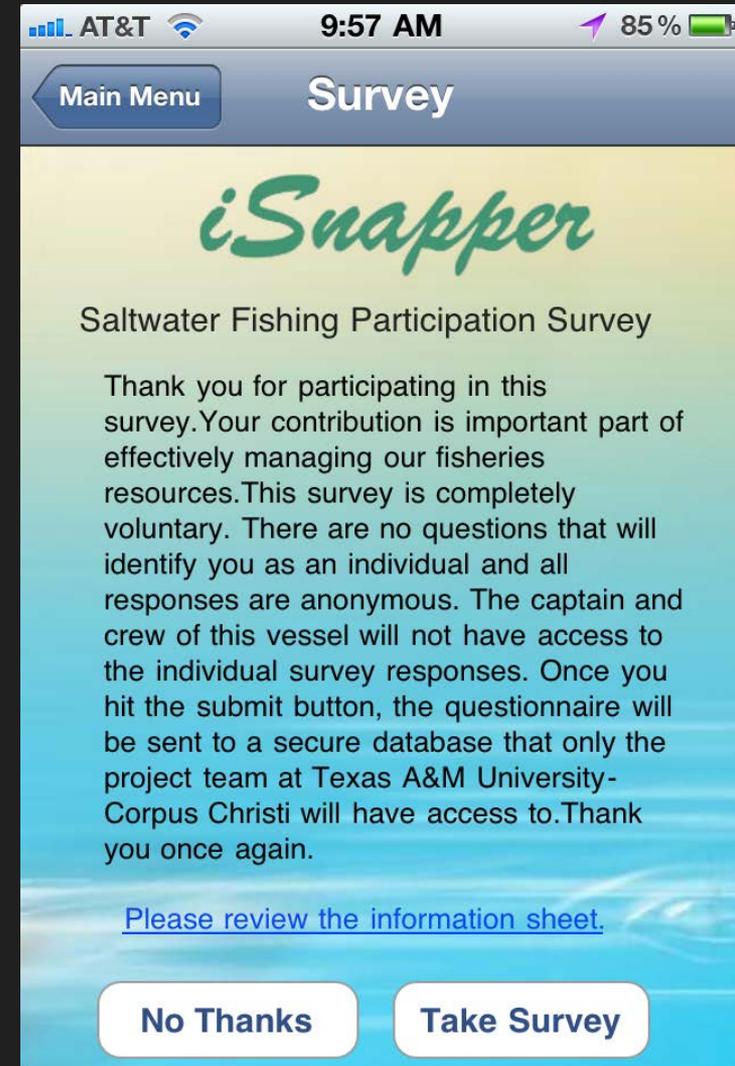
*iSnapper*Trip Number: **1004100006**

1. How many people in total, including yourself, live in your household? Please include those people who fish and who don't fish.
2. How many people in your household, including children and adults, have been recreational saltwater fishing in the last 12 months anywhere in Gulf of Mexico region including inshore and offshore?
3. How many days did you spend saltwater fishing in the last 12 months?
4. How many of these days were spent offshore?
5. Which of the following best describes your household's annual income, before taxes?
6. If this fishing trip is part of a longer trip in which you will spend at least one night away from your permanent residence, how many days will this trip last?
7. What is your zip code?
8. Gender? Male Female

64 anglers agreed to the participate in the anonymous survey. 33% potential response rate.*

This pilot was about **how the captains and anglers would receive the survey.**

- 83% of the respondents were male; 17% female.
- Average length of the trip to the coast was 3.8 days.
- On average these anglers spent 2.5 days offshore.

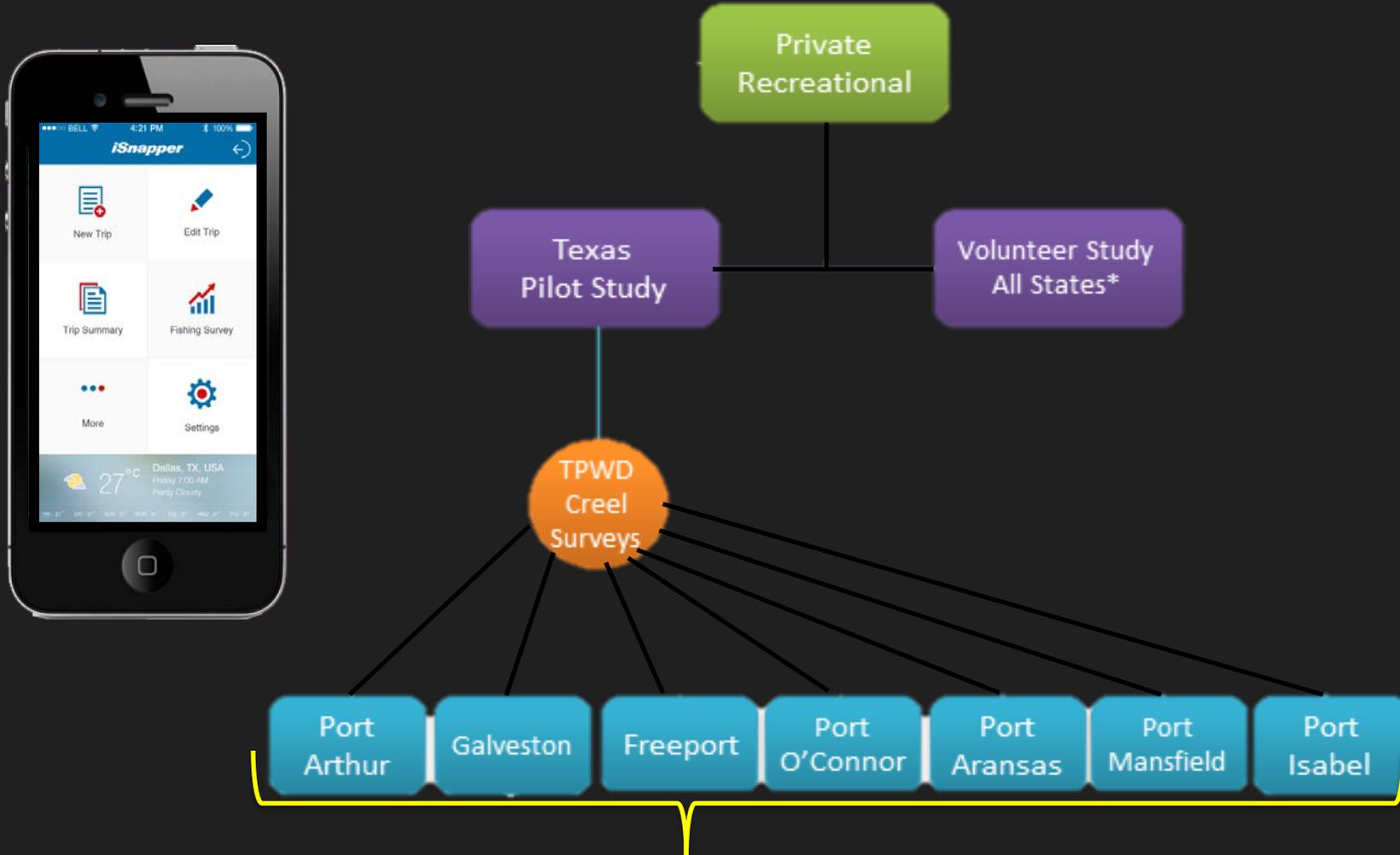


iSnapper 2014

- Latest version – Target private recreational fishermen
 - Supplement MRIP data collection
 - Socioeconomic survey
- Two data collection methods:
 1. Panel of anglers
 - Panel of randomly selected anglers that are required to report catch after every trip
 2. Voluntary anglers across Texas and the Gulf of Mexico
 - Open access to all other anglers to voluntarily report catch



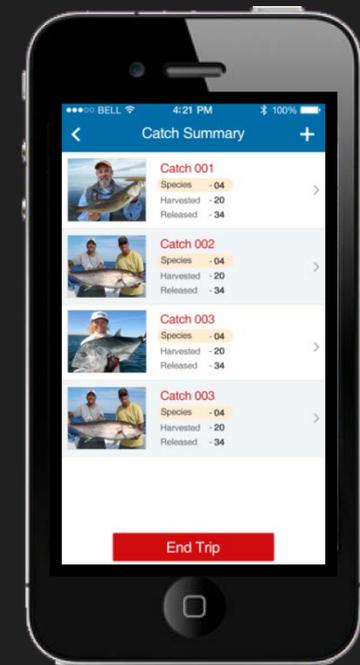
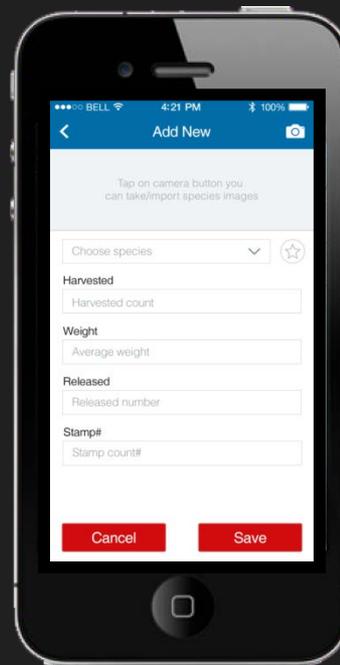
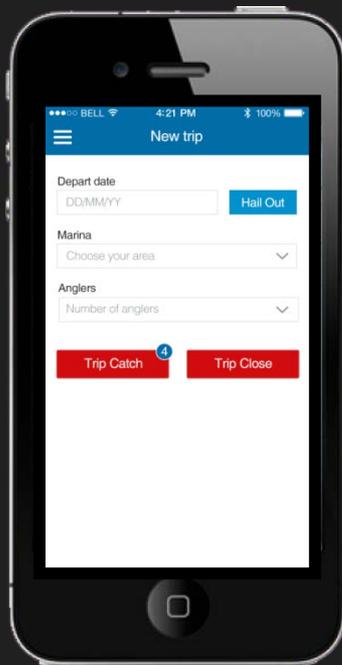
Design and Validation



Working with Texas Parks and Wildlife to identify panel participants in each port.

Features

- iSnapper also designed as a personal logbook
 - Take photos of fish
 - Save fishing locations
 - Record bait type, hook size, etc.



Additional Questions for iSnapper 2014 - 2015

Private Recreational Anglers:

- Fuel costs
- ?

For Hire (not focus of this study but...)

- Fee
- ?

Acknowledgements – 2011 Study

Captains and Owners Participating in iSnapper



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