

# Angler Action Program Survey: Overview Report

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## Executive Summary

Motivations to participate in the Angler Action Program (AAP) were investigated using an online survey. The survey was sent to all 7,019 registered AAP users; a total of 614 individuals completed survey. Of those, 21% indicated that they were currently participating or had participated in the program and were determined to be AAP participants.

## Survey Results

- The majority of AAP participants in the survey were college-educated, white, male, and full-time Florida residents, with an average age of 50. Most were recreational anglers who fish inshore/coastal saltwater from a motorized vessel and fish at least a few times a month
- Of those currently entering data, half (50%) log most or all of their fishing trips, about half (54%) log all of their trips when they catch no fish, and about half (54%) use the website to log
- Improving the quality of fisheries data was the most important factor motivating people to participate in the AAP
  - o This was followed by improving fisheries for the enjoyment of all and for other anglers, benefiting scientists, and contributing to original research
  - o Unimportant motivators included the attitudes of friends and family, the chance to earn a reward or win a prize, appreciation by others, the chance to enhance their status in the fishing community, helping them in their chosen profession, and making new contacts that might help their career
- The main motivations to participate did not differ over period of involvement in the program; Contributing to Science and Conservation were the two biggest factors motivating respondents to begin participating in the AAP and to continue participating in the program
- The majority identify with the goals of the AAP (77%), agree that the success of the AAP is important to them (74%), and feel they can make unique contributions to the AAP (62%).
- The majority of responding participants identify with other AAP participants (57%) and trust their fellow volunteers (58%)
- Few responding participants (20%) think other anglers are aware of the AAP
- Less than a quarter of responding participants find it difficult to use the AAP
- The biggest barrier to participation was awareness of the program. This was followed by not fishing in Florida salt waters, time, forgetting about the program, difficulties with using the program, and frustration with management.

## Introduction

Accurately capturing recreational fisheries data is vital to sustainably managing fisheries (Post et al. 2002, Cooke and Cowx 2004). However, because recreational anglers are a diverse, diffuse group, these data can be difficult to collect. Traditional methods include angler surveys, such as creel intercepts or the post hoc Marine Recreational Information Program interviews, which query anglers on recent fishing trips. These approaches have been relatively successful in capturing recreational harvest but are often time and labor intensive (Cooke et al. 2001). An alternate approach that is rising in popularity is the creation of citizen-science programs that involve anglers directly in the data collection process.

Volunteer angler data programs have been implemented in a variety of formats, and typically ask anglers to report catch and effort. One of the biggest difficulties in volunteer angler data programs lies in recruiting and retaining participants (Cooke et al. 2001). Little is known about what motivates anglers to participate in volunteer angler data programs, and barriers to participation remain relatively unexplored. In this light, we created a survey to explore motivations and barriers to participation in volunteer angler data programs, using the Angler Action Program (AAP) as a case study.

The AAP is a volunteer angler data program started by the Snook and Gamefish Foundation, a 501(C)(3) publically supported conservation group in the state of Florida. Data entry options include a website (accessible at [www.angleraction.org](http://www.angleraction.org)) and phone applications, or apps (“iAngler” and “iAngler lite”), which are available for all smartphones. Participants are asked to submit data on their trip (the state, country, and date of trip, number of anglers, hours fished, method of fishing, any affiliations they may have, and whether they fished in saltwater or freshwater) and catch (fish family and species, time fishing for that species, number of fish caught/kept/released, and number of fish under/in/over the slot limit), and are given the option to add information on trip location (latitude and longitude) and details about fish caught (length, weight, and hooking locations of fish as well as condition of released fish). In addition, participants are given the option of adding photos to each trip and to share their trip summaries or photos on social media (Facebook and Twitter in this case).

This report summarizes results from a survey of participants in the AAP. The objective of the survey was to explore what motivates people to participate in the program, as well as to uncover any barriers to participation. In addition, we wanted to investigate whether participant motivations change over period of involvement.

## Methodology

The survey questionnaire was created by synthesizing findings from studies of participant motivations in other fields of citizen science (such as ornithology and astronomy) into a series of questions specific to the Angler Action Program. We chose an internet-based survey approach, and the questionnaire was sent in March 2016 via email to all 7,019 Angler Action Program users, defined here as individuals who had created a username and login for the program and were therefore present in the AAP user database. Overall, the survey consisted of 5 general sections. The first section included questions about the survey respondent's fishing habits and identity as a Florida fisheries stakeholder. The second section included questions about their participation in the Angler Action Program. The next section explored their motivations to participate in the program. The fourth section focused on demographics, and the fifth and final section included the New Ecological Paradigm scale (which identifies a person's level of "eco-centricity", or conservation-mindedness). The complete survey questionnaire can be found in Appendix 1.

For the most part, the survey consisted of questions with response scales. However, open-ended questions were also included to elicit motivations to start and to continue to participate in the AAP as well as to understand barriers to participation. In these cases, responses were coded and grouped into broad categories to identify main themes.

## Results

### Characterizing Respondents

A total of 614 people completed the survey. Of those who responded, 21% indicated that they were currently participating or had participated in the Program; the remaining 79% indicated that they had never participated in the program. We will first focus on those individuals that had participated in the AAP in order to characterize AAP respondents and their participation; we will later compare participants to nonparticipants.

The majority of AAP participants in the survey were male (92%), with a mean age of 50 (Table 1). The majority (73%) were full-time Florida residents, with 20% identifying as visitors to the state and only 6% identifying as part-time Florida residents. Most (91%) self-identified as recreational anglers, with 69% identifying as "concerned citizens" and 52% identifying as "conservationists". There was also representation from the fishing charter sector (19%), fisheries/marine scientists (13%), and recreational divers (22%), with some representation by bait/tackle shop owners (6%), commercial fishers (6%), resource managers (5%), the marine tourism (7%) and seafood (6%) industries, and policy decision makers (4%). Most AAP respondents (88%) reporting having had some college or more, with 20% having obtained a Graduate degree or beyond.

The majority (74%) of AAP participants had fished at least a few times in the past 12 months, with 26% having fished a few times a week and 8% having fished daily (Table 2). Respondents were asked to select all the ways that they typically

fish; most (79%) reported fishing from a motorized vessel, though 35% reported fishing from shore and 27% reported fishing from a kayak/canoe. When asked to select all the habitats they fished, the majority (87%) selected inshore/coastal marine waters, with 49% fishing in offshore marine waters and 43% fishing in freshwater habitats.

Overall, AAP participants in the survey were relatively satisfied with fisheries management in the state of Florida (Figure 1). For example, more than half were satisfied or very satisfied with state fisheries management in Florida (41% and 11% respectively), and only 29% were dissatisfied with the science behind fisheries management in the state. Similarly, only 25% were dissatisfied with current fisheries regulations in Florida, and 70% were satisfied with their fishing experiences in the past year. Participants were less satisfied with Federal management, with 26% dissatisfied and 21% very dissatisfied with Federal management of fisheries in Florida.

The New Ecological Paradigm (NEP) scale measures an individual's level of conservation-mindedness. Specifically, a score of less than 3 on the scale indicates that an individual is more anthropocentric, or human-centered, while a score of greater than 3 indicates an individual is ecocentric, or nature-centered. Overall, AAP participants in the survey were on average slightly eco-centric, with an average score of 3.5 on the NEP scale.

Table 1. General demographics for AAP participants in the survey.

	Percentage
What is your gender?	
Male	92%
Female	8%
Prefer not to say	1%
In Florida, you are a:	
Full time resident	73%
Part time resident	6%
Visitor	20%
What is the highest level of education you have completed?	
Eighth grade or less	1%
Some high school	0%
High school graduate or GED	11%
Some college	16%
Technical degree	4%
Associate's degree	8%
Bachelor's degree	33%
Some graduate school	9%
Graduate degree or beyond	20%
Stakeholder	
Fishing Charter	19%
Bait/Tackle Shop Owner	6%
Recreational Angler	91%
Commercial Fisher	6%
Conservationist	52%
Fisheries/Other Marine/Aquatic Scientist	13%
Concerned Citizen	69%
Recreational Diver	22%
Resource Manager	5%
Marine Tourism Industry	7%
Seafood Industry	6%
Policy Decision-Maker	4%
Other (please specify)	5%

Table 2. Fishing characteristics of AAP participants in the survey.

	Percentage
In the last 12 months, how often did you go fishing?	
Never	0%
Infrequent (Once to a few times)	17%
Moderate (Once a month to once a week)	50%
Frequent (A few times a week to daily)	34%
How do you typically fish (check all that apply)?	
From shore	35%
From a pier/bridge/dock	17%
From a kayak/canoe	27%
From a motorized vessel	79%
What habitats do you fish (check all that apply?)	
Inshore/Coastal Marine	87%
Offshore Marine	49%
Freshwater	43%

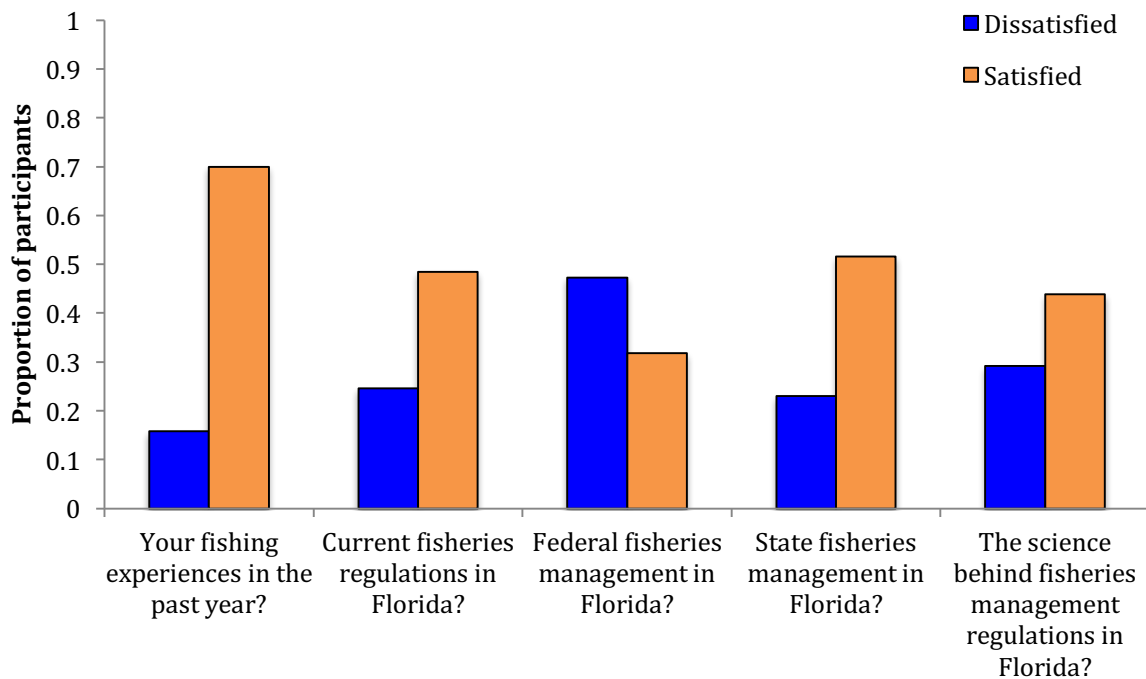


Figure 1. The proportion of AAP participants in the survey who indicated that they were dissatisfied or satisfied with different aspects of fisheries management in the state of Florida.



## Participation in the AAP

Survey respondents were asked to self-report their levels of participation in the Angler Action program. More than half (56%) of AAP participants in the survey indicated that they had begun participating in the AAP in 2014 or 2015 (Figure 2). Most had either not started logging trips yet (43%) or had stopped logging trips (39%) (Figure 3). Of those 18% of participants who identified as currently logging trips, half (50%) reported logging almost all or all of their fishing trips (Figure 4), and about half (54%) reported always logging their trips when they catch no fish (Figure 5). In addition, 54% of those currently logging trips reported using the website to log, while 38% reported using the iAngler app and 25% reported using the iAngler-lite app (Figure 6).

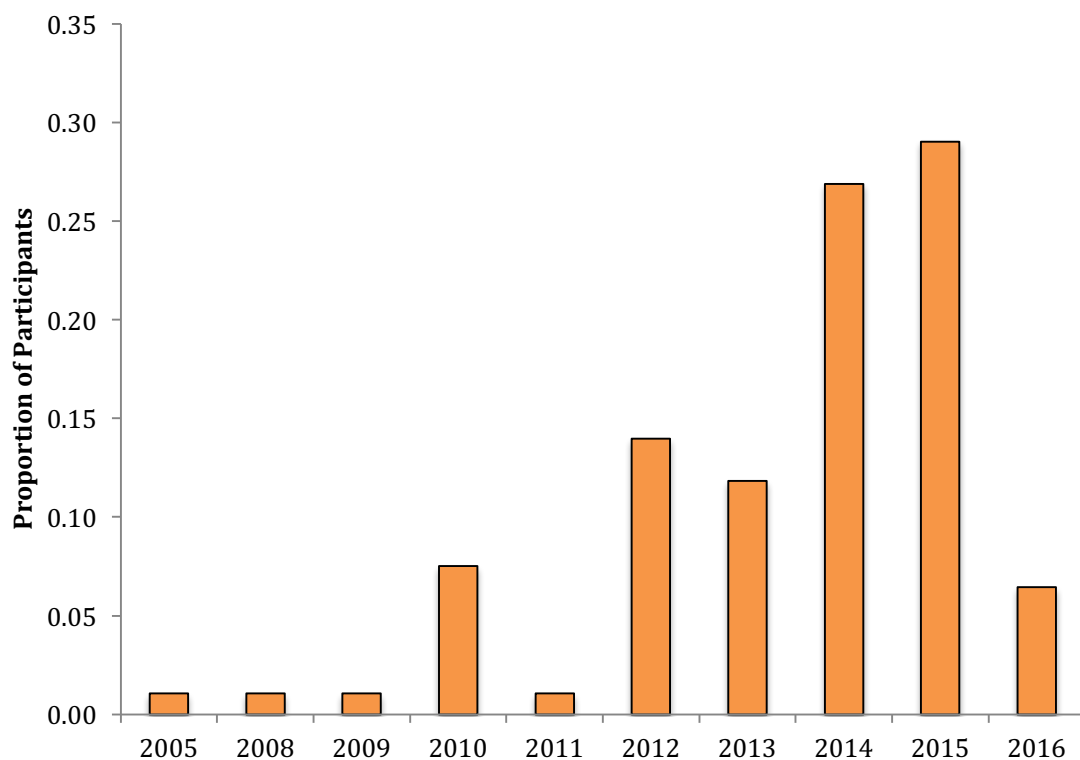


Figure 2. Proportion of AAP in the survey who reported having begun participating in the program in each year.

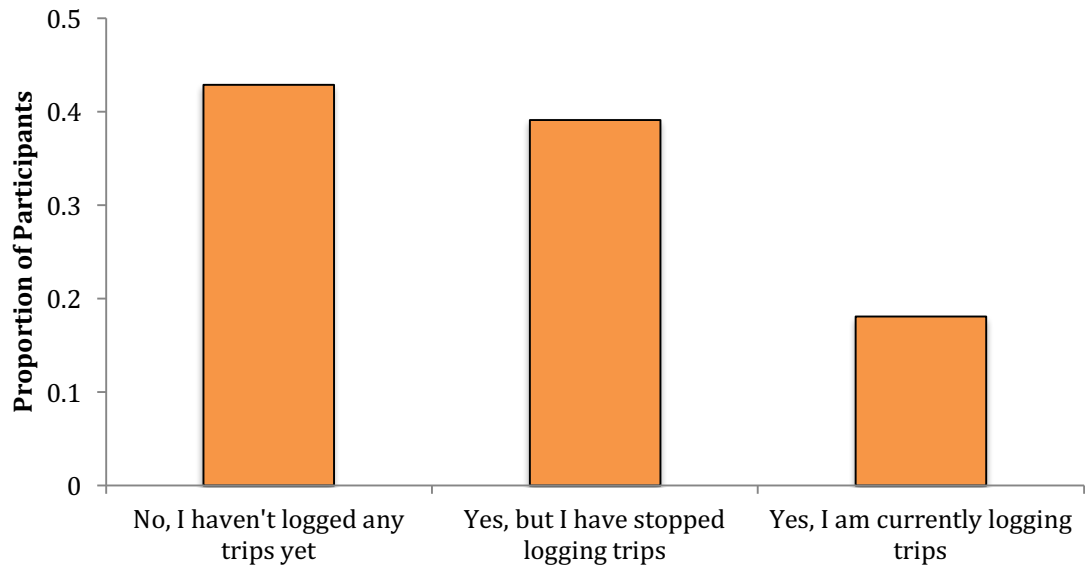


Figure 3. Proportion of AAP in the survey who currently logging trips, who have stopped logging trips, or who have yet to log trips, according to their self-report.

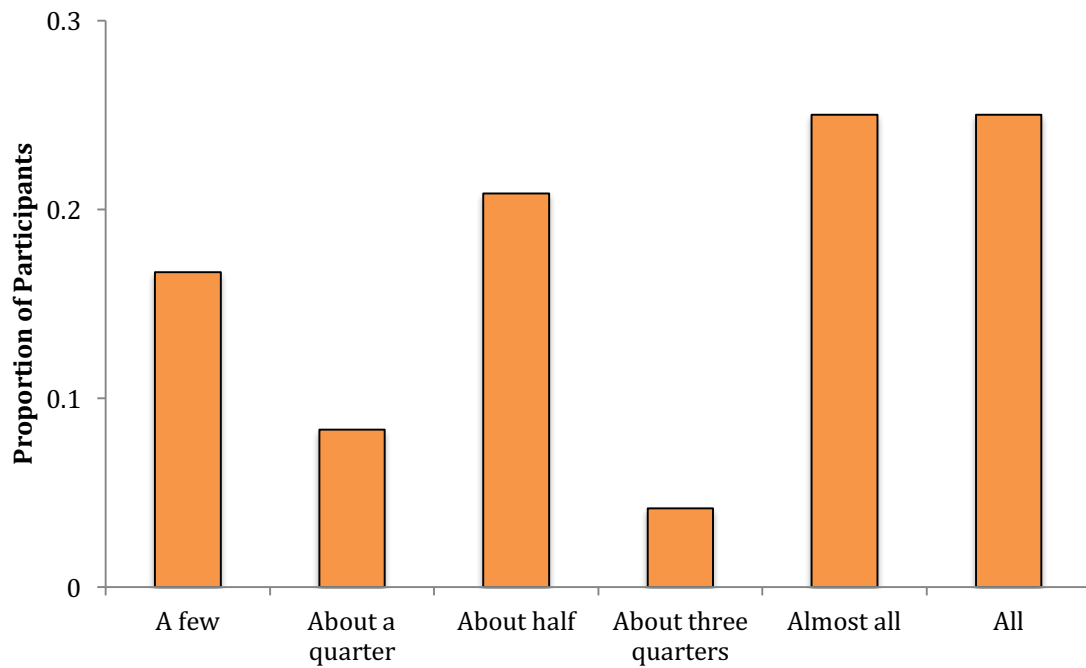


Figure 4. The proportion of individuals currently entering data who selected each category in response to the question “how many of your fishing trips do you log?”

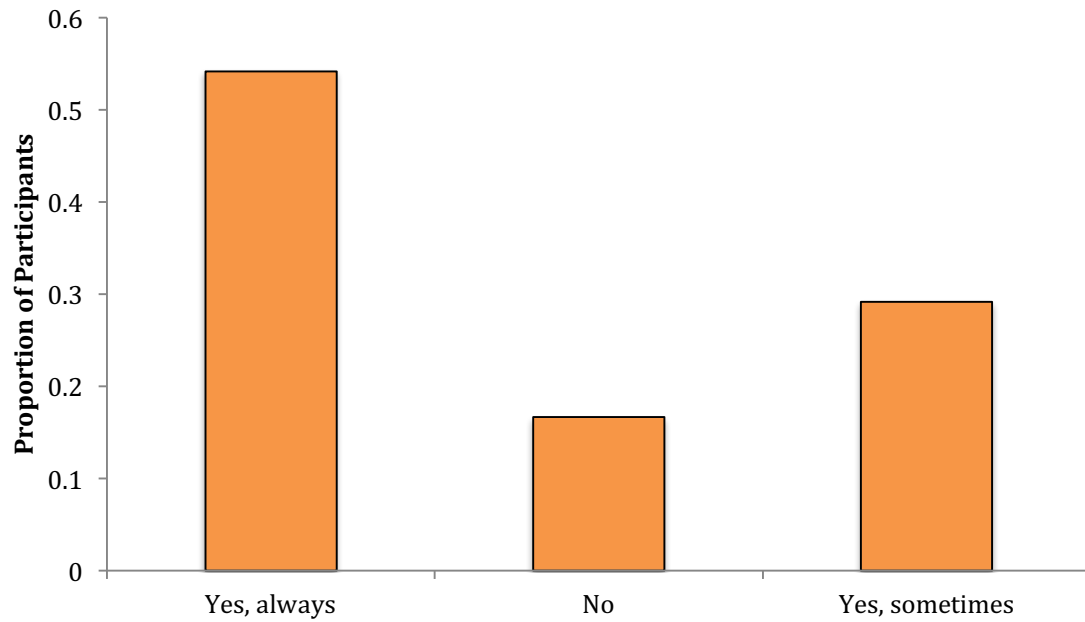


Figure 5. The proportion of individuals currently entering data who responded with yes-always, yes-sometimes, or no when asked if they log trips when they catch no fish.

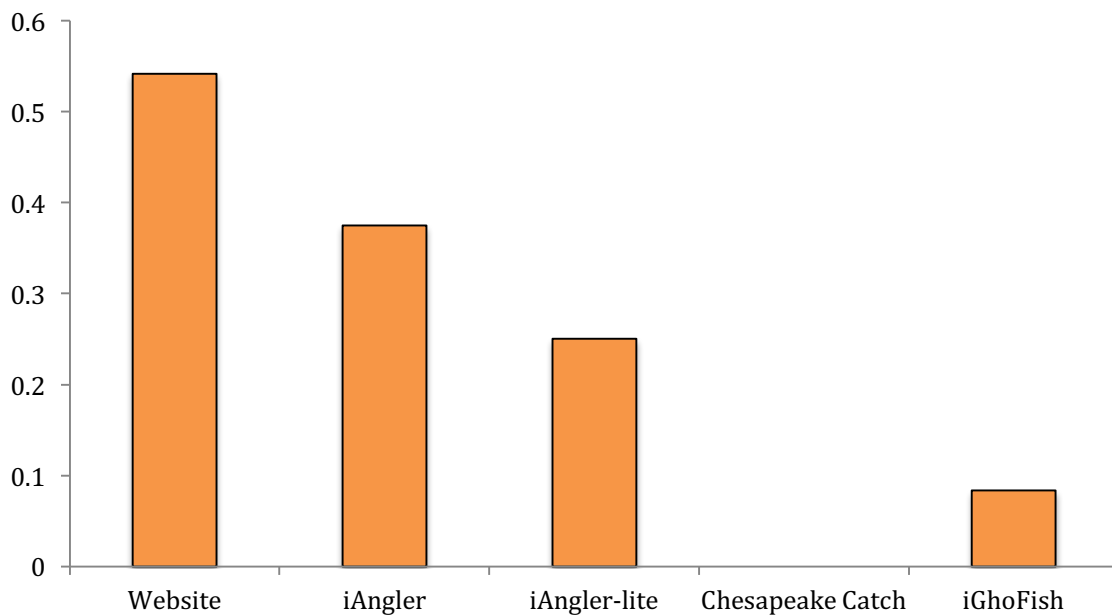


Figure 6. The proportion of individuals currently entering data who reported using each platform to log trips.

## What motivates people to participate?

Overall, “*improving the quality of fisheries data*” was the most important factor motivating AAP participants (Table 3). Improving fisheries for the enjoyment of all as well as for other anglers like themselves, benefiting scientists, and contributing to original research were also very important. To a lesser degree, participants were also motivated by the opportunities to gain a new perspective on things, to improve their own fishing, and to learn about their own fishing experiences, as well as by the chance to advance the goals of the AAP, to learn about fisheries science, to feel a part of the community of volunteer anglers, to show concern and compassion for others, to feel good about their contribution, and to make the world a better place. In general, participants were less motivated by the attitudes of their friends and family, the chance to win a prize/earn a reward, appreciation by others or the chance to enhance their status in the fishing community, or helping them in their chosen profession or making new contacts that might help their career.

The majority of responding participants agreed or strongly agreed that they identify with the goals of the AAP (77%), that the success of the AAP is important to them (74%), and that they feel they can make unique contributions to the AAP (62%), though only 23% agreed that participating in the program makes them feel important (Figure 7). While 57% agreed that they identify with other participants in the AAP and 58% agreed that they trust their fellow volunteers, only 20% agreed that other anglers like themselves are aware of the program. Overall, 47% agreed or strongly agreed that participating in the program is fun, and 59% agreed or strongly agreed that they enjoy participating in the program.

Respondents seemed to feel relatively confident in using the AAP. Of those who have entered data into the program, 56% agreed that they find it easy to navigate the AAP, with only 22% disagreeing (and the rest responding with a neutral answer) (Figure 8). In addition, 54% of respondents agreed (and only 23% disagreed) that it was easy for them to become skillful at entering data. Respondents overall seemed to feel that the website was easier to navigate than the phone application, with 56% of respondents agreeing that they find the website easy to use but only 41% of respondents agreeing that they find the mobile phone application easy to use. Though only 47% agreed that participating in the program is fun, 59% agreed that they enjoy participating in the program, with only 8% disagreeing that they enjoy participating.

Table 3. The survey asked respondents to rate how important different items were to motivating their participation in the Angler Action Program, with response options ranging from 1: “Not at all important” to 5: “Very important”. This table shows the average score (across all AAP participants who responded to the survey) for each potential motivator.

	Motivation	Average Score
<b>Most important</b>	Improving the quality of fisheries data	4.65
<b>Very Important</b>	Improving fisheries for the enjoyment of all	4.42
	Benefiting scientists	4.22
	Contributing to original research	4.22
	Improving fishing for other anglers like me	4.01
<b>Important</b>	The opportunity to gain a new perspective on things	3.99
	Improving my fishing experiences	3.92
	Advancing the goals of the Angler Action Program	3.92
	Learning about my own fishing	3.90
	Learning more about fisheries science	3.81
	Feeling part of the community of volunteer anglers	3.76
	Showing concern and compassion for others	3.65
	Feeling good about my contribution	3.54
	Making the world a better place	3.31
<b>Less Important</b>	The attitudes of my friends and family regarding my participation	2.28
	The chance to earn a reward or win a prize	2.14
	Helping me in my chosen profession	2.12
	Appreciation by others in my community	2.04
	Enhancing my status in the fishing community	2.00
<b>Least Important</b>	Making new contacts that might help my career	1.95

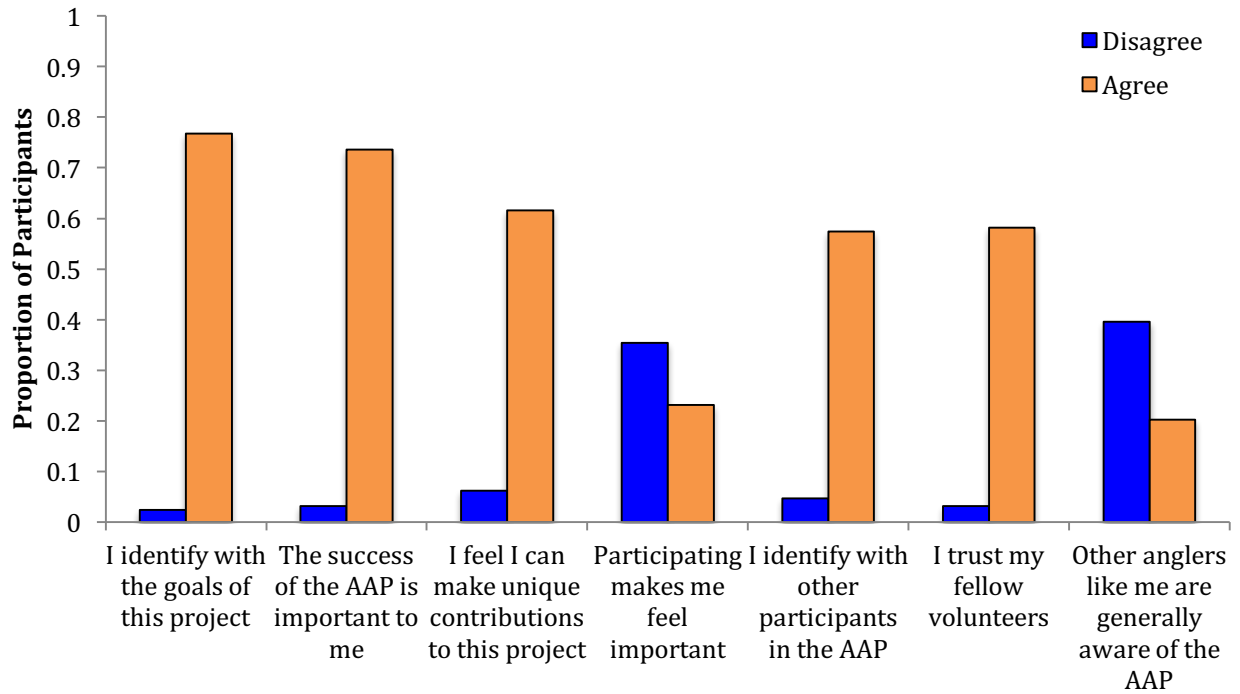


Figure 7. Proportion of AAP participants who agreed or disagreed with each statement about their participation in the AAP.

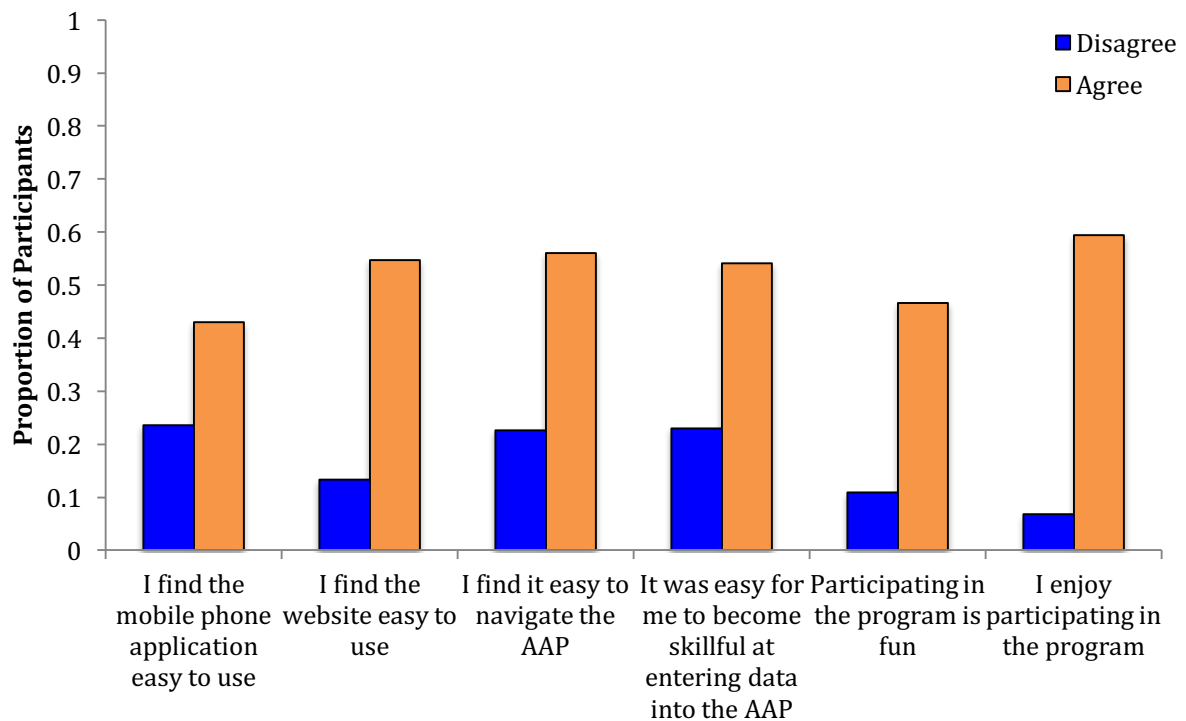


Figure 8. Proportion of AAP participants who agreed or disagreed with each statement about their participation in the AAP.

## **What are the barriers to participation?**

The most commonly cited barrier to participation in the AAP was lack of knowledge about the program-70% of those not participating listed this as a barrier, for example stating that they were “not familiar with the program” (Table 4). The second most frequently listed barrier (14%) was not fishing Florida saltwaters, either because they were not a Florida resident (11%), fished freshwater (1%), or were not fishing at all at present (3%). The next most frequent barrier was time (5%), followed by forgetfulness (4%), difficulties with the software (3%), and frustration with management in general (3%). Concerns about use of the data, the perception that because they caught no fish they should not log, and laziness were each listed as barriers by 1% of respondents.

The next question asked those who had never participated “is there anything that might improve your chances of participating in the future?”. The most frequently cited response was “more information” (62%), with a number of people indicating that they would be happy to participate if they knew more about the program (Table 5). This was followed by “more time to fish” (6%), making the program easier to use (5%), a move by the individual to Florida (4%), and the establishment of the AAP in their area of residence (4%). In addition, 4% said reminders would help them participate, and another 4% responded saying they were spurred to participate by the survey itself and intended to begin participating immediately. Another 3% said they would participate if asked, responding for example by saying “just ask me”. 3% of respondents said they would participate if they saw improvements in fisheries management, while 2% asked for incentives such as free stuff for participating. Becoming a better fisher, a greater personal interaction with the program through hands on meetings, and reassurance that their information will be protected were all mentioned by 1% of respondents.

AAP participants were also asked about barriers through the open-ended question “has anything made it difficult for you to participate in the Angler Action Program?” (Table 6). Almost a third responded that nothing has impeded their participation. Among those who indicated barriers, the most commonly cited issue was difficulty in using the program (21%), most often with regards to getting the mobile phone app to work. This was followed by finding the time to fish (14%) or to fill out the information (12%). 6% said that forgetting was an impediment, and an additional 6% cited frustration with management as a difficulty; 3% wanted more information on the program, while another 3% cited weather as an occasional issue. Also mentioned were concerns about trust (2%), laziness (1%), and dissatisfaction with the outcomes of the program (1%).

Table 4. This table synthesizes the types of barriers to participation in the AAP listed by survey respondents identified as not having participated in the AAP.

Barrier	Percentage	Example Statement
Lack of Knowledge	70%	"Not sure what it is"
Don't Fish Florida Saltwaters	14%	"I have never fished in Florida"
Time	5%	"Lack of time..."
Forget	4%	"Forgot about the program"
Difficulties with Software	3%	"iAngler interface problems"
Frustration with Management	3%	"Yes, frustration with the whole system..."
Trust	1%	"Not sure if I want where/when I fish publicized..."
Caught No Fish	1%	"Caught no fish"
Lazy	1%	"lazy"

Table 5. This table synthesizes the responses to the question "is there anything that might improve your chances of participating (in the AAP) in future?"

Response Category	Percentage	Example Statement
More information	62%	"More information on the program"
More time to fish	6%	"Fish more often"
Easier to use	5%	"Easier to use app"
Move to Florida	4%	"If I moved to FL"
AAP in my area	4%	"A local group in Mississippi where I live"
Reminders	4%	"Weekly or monthly reminder to log trips"
Will do it	4%	"I will do it!"
Better management	3%	"If I start to believe that the FWC will ever really start making the MUCH needed changes..."
Ask me	3%	"Just ask"
Incentives	2%	"Free stuff for participating"
Better fisher	1%	"If I considered being a better fisherman"
Greater interaction	1%	"Close hands on meetings"
Protect information	1%	"...Steps taken to prevent any information given to AAP from getting out..."



Table 6. This table synthesizes the categories of responses to the question “has anything made it difficult for you to participate in the Angler Action Program?”.

Factor	Proportion	Example Statement
No	29%	"No"
Difficulties with Use	21%	"App working poorly"
Fishing Less	15%	"Being busy and fishing less"
Time	13%	"Time it takes to fill out the information"
Forgetting	6%	"Forgetting to log trips"
Frustration with Management	6%	"I get mad at how the feds operate"
Lack of information	3%	"Not clear on goals"
Weather	3%	"Rough seas every so often"
Trust	2%	"For me I have to be careful who I tell where I am catching fish"
Laziness	1%	"My laziness"
Dissatisfaction with Program	1%	"Have seen how it could be used to keep the data bad"

## **Do motivations change over period of involvement?**

To explore whether motivations change over period of involvement, Angler Action Program participants were asked two open-ended questions: firstly, “what would you say was the most important factor motivating you to start participating in the Angler Action Program?”, followed by “what are/were the most important factors motivating you to continue to participate in the Angler Action Program?”. Again, responses were grouped into broad categories to identify motivations to participate over time.

Contributing to Science was the most frequently mentioned motivation to start participating in the AAP and was listed by 37% of those who responded to the question (Table 6). This was followed by Conservation (22%), using the program as a Personal Log (9%), Improving Fisheries (7%), and influencing Regulations (5%). Fishing, Helping the Program, and Personal Contact were all listed by 4% of respondents as the primary motivation for their participation. Finding the program Easy to Use was cited by 2% of participants, and fishing Tournaments, Having Fun, the chance for a Reward, finding the Time, and randomly finding the program were all listed by 1% of respondents.

Contributing to Science was also the most frequently cited motivation to continue participating, followed closely by Conservation (constituting 28% and 27% of responses respectively) (Table 7). This was followed by impacting Regulations, which came up in 14% of responses. Of those who responded to the question, 7% cited use as a Personal Log as a motivation to continue participating and 6% indicated they participate because they love to go Fishing. 4% of responses cited the chance to Improve My Fishing, to Learn, and to Improve the Fishery, while 3% mentioned the Ease of Use of the software, Helping, and Remembering as motivations to continue. Finally, Fun, Rewards, and Time were all mentioned in 1% of responses.

Table 7. This table synthesizes the motivations listed by survey respondents that spurred them to begin participating in the AAP.

Primary Motivation	Percentage	Example Statement
Contribute to Science	37%	"Data collection for science"
Conservation	22%	"Conservation and protecting our fishery"
Personal Log	9%	"Having record of fishing trips"
Improve Fishery	7%	"I wanted to help improve fishing"
Regulation	5%	"Reduce regulations on recreational fishermen"
Fishing	4%	"I like fishing"
Help the Program	4%	"Learn to navigate in order to teach others"
Personal Contact	4%	"Asked by a personal friend"
Ease of Use	2%	"Phone app much easier to use than before"
Tournaments	1%	"I fish tournaments"
Fun	1%	"Having fun"
Reward	1%	"Prizes"
Time	1%	"Getting the time"
Random	1%	"Surfing the net found your software and started recording sessions"

Table 8. This table synthesizes the motivations listed by survey respondents that inspired them to continue participating in the program.

Factor	Percentage	Example Statement
Contribute to Science	28%	"Helping to provide data for science"
Conservation	27%	"Conservation of Florida's natural resources"
Regulation	14%	"Data that may spur regulation change"
Personal Log	7%	"Use as fishing log"
Fishing	6%	"I love to fish"
Improve my Fishing	4%	"Using data to improve personal fishing"
Learning	4%	"Learning about the kinds of fish"
Improve Fishery	4%	"To improve the fisheries"
Ease of Use	3%	"Friendliness of data input"
Helping	3%	"Wanting to help"
Remembering	3%	"Just have to remember"
Fun	1%	"Having fun"
Reward	1%	"Chance for a prize"
Time	1%	"Finding the time"

## Should any features be added?

Participants were also asked if there were any features they would like to see added to the AAP program. Below is a verbatim list of their responses.

<p>A Counter. I just want to click the counter for fish or each species from my phone or fb. page. I do my reports on fb right now. I wish I had a counter app on it that I just clicked on the species, it recorded my clicks &amp; remembered how many I entered each time. I would like to edit it if I made a mistake. I only fish for a small amount of species relative to what exists, but run into others from time to time. I could add them to my list if needed. I would just have pictures of each fish that I fish for, click it five times if we caught that many, Make it real easy to click released, or kept, keeper or not, locations I save. It could remember the date or confirm or change the day if needed. The less clicks I have to do would be better. I simply don't get access to time. I have to earn a living &amp; then be available for my family. in light of the plight of our watersheds story. We have had to scramble to survive financially since Sandy. We have since stabilized somewhat, but it would be nice to be able to double my charters per month. Can't do that unless we actually have fish to catch. My a.d.d. doesn't help. As a fisherman, my head is always on a swivel if I hear something or see something I get distracted easily. IF it takes me more than five mins. I get distracted easily. Plus, I have another business I run selling boats that I depend on &amp; have to be available pretty much 24/7. I have to admit I have not been to AAP lately. I would like to see the data entry to be extremely fast &amp; efficient. I think some kind of counter would help me. I just want to click &amp; touch my keyboard to type as least as possible. Plus, my fingers are so old, beat up, fat, calloused, I hardly have feeling in them it seems, so on an app. my fingers mis hit a button &amp; then I have to spend more time correcting myself than actually being productive. It doesn't help that my fingers are usually cut or injured in some way because of a hook, fish gill or something. My oldest son &amp; my wife are rapid texters with long slender fingers. They are like surgeons. Something that would help me from making mistakes &amp; having to edit so much would help in a phone app along with some kind of counter. I have to be able to do in in minutes.</p>
<p>A quick log/post option. One where you could generally log a trip's data very quickly. I understand all of the data is important, but it is a little cumbersome when you want to log a quick trip.</p>
<p>More one or two step click and go features.</p>
<p>Bring up my last county as site / Bring up my last site fishing as first choice /</p>
<p>Ease in adding new species. Ability to manipulate data easier. Maybe have more pre built summary report templates.</p>
<p>It should have a voice command component(like Siri on iPhones or OK Google for Android) added to the apps, so that the person could, for example, press the species button and then speak the species name, number caught, and lengths when prompted by the app. Because the screen can be hard to see in the sun, the less button-pressing, the better.</p>

Improved interface. Possibly a better way to enter input.
Photo upload with fish from app and also a charter data base helping us get are work Out there to add more trips by posting are data as a region fishing report for the arias that each charter guides in
Simpler retrieval of data
Simplify the app, make it more graphical. Example - click on map for location fished, click on pictures of fish to reflect what you caught, etc....just simple selections with your finger to simplify input in to a few minutes to seconds.
yes, when i catch lots of panfish or trout and keep or throw back; lots of lengths, and where'd you hook it, etc; let me write in a comment about what i caught and what happened; what died; etc....i usually dont fill in all the blanks if i catch 25 trout & throw 20 back....takes too long to fill all of the blanks out...
More options to change my username
One of Biggest Obstacles I See and Hear about is that the App on the smartphone is very hard to see in bright sunlight.
freshwater
I would like to see waterfowl, marine burds, marine mammals, and garbage added to the app as these are things that many anglers see while fishing that can be reported if an angler chooses to do so. Id like to see garbage/litter added especially for shore sites. Many popular shore sites are covered with angler litter that gives anglers a bad name. Cleanups could be focused around data logged through the app.
The features as displayed are sufficient, however adding a tide chart would be beneficial to all anglers. The best one I used to date is <a href="http://www.tides4fishing.com">www.tides4fishing.com</a>
a branded social media awareness campaign backed and promoted by fishing guides, researchers, and others in the fishing community who can make it a popular and beneficial experience being a member
Better promotion of the results of the data, it a motivating factor to keep partisparting
Feedback
More education seminars To educated the public
Advise FWC and regualtors that these snook laws are ludicrous.
Government call to action button
Stopping Okeechobee polluted water release to my fishing grounds.
haven't used in long time, so not sure what upgrades have been
I haven't participated in 2+ years so I can't really say
I haven't used it in a while so I'm not up to date with the current features
I may have missed it but you're reason, mission, goal?
I would like to see it stopped and funding be put into other forms of data collection. Take a look at La. data since they increased the amount of dock surveys it shows a big difference than NOAA data
it's fairly robust the way it is!
Wish there was a European version. Well done keep up the good work.

## Appendix 1: Survey Questionnaire

To begin, please tell us a bit about your fishing experiences:

In the last 12 months, how often did you go fishing?

- ☐ Never
- ☐ Once
- ☐ A few times
- ☐ Once a month
- ☐ A few times a month
- ☐ Once a week
- ☐ A few times a week
- ☐ Daily

How do you typically fish (check all that apply)?

- ☐ From shore
- ☐ From a pier/bridge/dock
- ☐ From a kayak/canoe
- ☐ From a motorized vessel

In the past 12 months, in which habitats have you fished (check all that apply)?

- ☐ Inshore/Coastal Marine
- ☐ Offshore Marine
- ☐ Freshwater

Please check all of the ways in which you identify as a stakeholder in Florida's fisheries:

- ☐ Fishing Charter
- ☐ Bait/Tackle Shop Owner
- ☐ Recreational Angler
- ☐ Commercial Fisher
- ☐ Conservationist
- ☐ Fisheries or Other Marine or Aquatic Scientist
- ☐ Concerned Citizen
- ☐ Recreational Diver
- ☐ Resource Manager
- ☐ Marine Tourism Industry
- ☐ Seafood Industry
- ☐ Policy Decision-Maker
- ☐ Other (please specify) \_\_\_\_\_

How satisfied/unsatisfied are you with:

	Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied
Your fishing experiences in the past year?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Current fisheries regulations in Florida?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Federal fisheries management in Florida?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State fisheries management in Florida?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The science behind fisheries management regulations in Florida?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Next, please tell us about your participation in the Angler Action Program (AAP):

Do you or have you participated in the Angler Action Program?

- ☐ Yes, I currently participate
- ☐ Yes, I have participated in the past
- ☐ No, I have never participated

If No, I have never participated Is Selected, Then Skip To Has anything prevented you from parti...

When did you start participating in the Angler Action Program?

Month (Numerical)

Year

Have you logged any trips into the Angler Action Program Database?

- ☐ No, I haven't logged any trips yet
- ☐ Yes, I am currently logging trips
- ☐ Yes, but I have stopped logging trips

If No, I haven't logged any tr... Is Selected, Then Skip To We are very interested in understandi...If Yes, but I have stopped log... Is Selected, Then Skip To How often did you log your fishing tr...If Yes, but I have stopped log... Is Selected, Then Skip To How often do you log your fishing trips?

How often do you log your fishing trips?

- ☐ I log a few of my trips
- ☐ I log about a quarter of my trips
- ☐ I log about half of my trips
- ☐ I log about three quarters of my trips
- ☐ I log almost all of my trips
- ☐ I log all of my trips

What platform do you use to log your trips (select all that apply)?

- ☐ Website
- ☐ iAngler
- ☐ iAngler-lite
- ☐ Chesapeake Catch
- ☐ iGhoFish

Do you log trips when you catch no fish?

- ☐ Yes, always
- ☐ Yes, sometimes
- ☐ No

If Yes, always Is Selected, Then Skip To We are very interested in understandi...If No Is Selected, Then Skip To We are very interested in understandi...If Yes, sometimes Is Selected, Then Skip To We are very interested in understandi...

How often did you log your fishing trips?

- ☐ I logged a few of my trips
- ☐ I logged about a quarter of my trips
- ☐ I logged about half of my trips
- ☐ I logged about three quarters of my trips
- ☐ I logged almost all of my trips
- ☐ I logged all of my trips

What platform did you use to log your trips (select all that apply)?

- ☐ Website
- ☐ iAngler
- ☐ iAngler-lite
- ☐ Chesapeake Catch
- ☐ iGhoFish

Did you log trips when you caught no fish?

- ☐ Yes, always
- ☐ Yes, sometimes
- ☐ No

We are very interested in understanding why people participate in the Angler Action Program. Please answer the following 7 questions regarding your own motivations to participate.

On a scale of 1-5, how important were each of the following in motivating your participation in the Angler Action Program?

	1: Not at all important	2	3	4	5: Very important
Improving the quality of fisheries data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improving my fishing experiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improving fishing for other anglers like me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improving fisheries for the enjoyment of all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Learning more about fisheries science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Learning about my own fishing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The opportunity to gain a new perspective on things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Benefiting scientists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contributing to original research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feeling part of the community of volunteer anglers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The chance to earn a reward or win a prize	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

On a scale of 1-5, how important were each of the following in motivating your participation in the Angler Action Program?

	1: Not at all important	2	3	4	5: Very important
Helping me in my chosen profession	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Making new contacts that might help my career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feeling good about my contribution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The attitudes of my friends and family regarding my participation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enhancing my status in the fishing community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciation by others in my community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Advancing the goals of the Angler Action Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Showing concern and compassion for others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Making the world a better place	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate the level to which you agree/disagree with the following statements about your participation in the Angler Action Program (AAP):

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I feel I can make unique contributions to this project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I identify with the goals of this project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I identify with other participants in the AAP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I trust my fellow volunteers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other anglers like me are generally aware of the AAP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The success of the AAP is important to me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participating makes me feel important	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate the level to which you agree/disagree with the following statements about your participation in the Angler Action Program:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I find it easy to navigate the AAP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find the website easy to use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find the mobile phone application easy to use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It was easy for me to become skillful at entering data into the AAP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participating in the program is fun	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I enjoy participating in the program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



What would you say was the most important factor motivating you to start participating in the AAP?

What are/were the most important factors motivating you to continue to participate in the AAP?

Has anything made it difficult for you to participate?

Are there any features you would like to see added to the Angler Action Program?

Answer If Do you or have you participated in the Angler Action Program? No I have never participated Is Selected

Has anything prevented you from participating in the Angler Action Program? If yes, please explain:

Answer If Do you or have you participated in the Angler Action Program? No I have never participated Is Selected

Is there anything that might improve your chances of participating in the future? If yes, please explain:

To close, please tell us a bit about yourself.

In what year were you born (YYYY)?

What is your gender?

- ☐ Male
- ☐ Female
- ☐ Prefer not to say

In Florida, you are a:

- ☐ Full time resident
- ☐ Part time resident
- ☐ Visitor

What is the highest level of education you have completed?

- ☐ Eighth grade or less
- ☐ Some high school
- ☐ High school graduate or GED
- ☐ Some college
- ☐ Technical degree
- ☐ Associate's degree
- ☐ Bachelor's degree
- ☐ Some graduate school
- ☐ Graduate degree or beyond

The following statements are part of a national scale measuring people's perspectives about humans and the natural environment. Please indicate the level to which you agree or disagree with the following general statements:

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
We are approaching the limit of the number of people the earth can support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans have the right to modify the natural environment to suit their needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When humans interfere with nature, it often produces disastrous consequences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human ingenuity will ensure that we do not make the earth unlivable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans are severely abusing the earth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The earth has plenty of natural resources if we just learn how to develop them	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plants and animals have as much right as humans to exist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The balance of nature is strong enough to cope with the impacts of modern industrial nations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Despite our special abilities, humans are still subject to the laws of nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The so-called "ecological crisis" facing humankind has been greatly exaggerated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The earth is like a spaceship with very limited room and resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans were meant to rule over the rest of nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The balance of nature is very delicate and easily upset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Humans will eventually learn enough about how nature works to be able to control it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If things continue on their present course, we will soon experience a major environmental catastrophe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Thank you for filling out our survey! Please use this space for any additional comments.