

For-Hire Angler Travel and Targeting Report 2023: Hillsborough County

A data report for the Hillsborough County Tourist Development Council, Chamber of Commerce, and Board of County Commissioners prepared by:

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Table of Contents

Abbreviations and Definitions.....	2
Overview Summary	3
NMFS MRIP background.....	5
Fishing Trip Origins: Where do your anglers come from?	7
Fishing Trip Origins Results: Tables	9
Fishing Trip Origin Results: Maps.....	12
Species targeted: What do your anglers fish for?.....	19
Species Targeted Results: Tables	20
Species Targeted Results: Time series figures.....	23
Sample Sizes of data for this report.....	25
References.....	26

Abbreviations and Definitions

NMFS: National Marine Fisheries Service.

MRIP: Marine Recreational Information Program, which is operated by NMFS to survey coastal anglers.

APAIS: Access Point Angler Intercept Survey, the survey implemented by MRIP to collect information about angling.

Tampa Bay region: refers to the areas of and marine waters adjacent to Pinellas, Hillsborough, Manatee, and Sarasota counties.

Overview Summary

Why this report might be important

Recreational fishing is one of the dominant recreational uses of marine ecosystems globally, and marine recreational fisheries (recreational fisheries occurring in saltwater) are particularly important to Florida. Florida has more saltwater anglers than any other state—2.4 million (USFWS 2011), with over a million saltwater fishing licenses sold annually. The total economic output (market activity) of saltwater fishing in Florida was estimated at around \$8b annually (NOAA 2017), making fishing a vital part of Florida's overall economy, and especially critical for coastal counties. Because of their importance, marine recreational fisheries in Florida are carefully managed by state (Florida Fish and Wildlife Conservation Commission; FWC) and by federal (NOAA's National Marine Fisheries Service, NMFS) agencies. These two agencies partner to collect information about recreational fishing that is freely available to the public in the form of large databases. Extracting and visualizing these data can be challenging. We have queried these databases and summarized information we think may be helpful to the for-hire fishing industry and related tourism industry of Hillsborough County. **Specifically this information can be used to inform advertisements of the for-hire fishing and related tourism in Hillsborough County.**

What this report can be used for

This report is designed to provide information about marine recreational for-hire fishing dynamics in Hillsborough County. The for-hire fishing sector includes private charters where a small group of anglers (usually 1-6 people) hire a guide to take them fishing, as well as "party" or "head" boats, where usually 20 or more anglers pay per person to fish from a larger, captained boat. The for-hire fishing industry is important for several reasons. First, it represents employment and livelihoods for the guides, captains, and crew offering for-hire fishing services. Second, the for-hire sector allows people who do not own or rent their own boats access to recreational fishing. Finally, the for-hire sector can play a role in tourist decisions, as the availability of for-hire fishing can attract angler from out of county, state, or even country to travel to local areas to stay and fish.

The for-hire fishing dynamics described here include information about what species of fish for-hire recreational fishers (here called "angler clients") are most often trying to catch and where angler clients come from when they make a for-hire trip to marine waters from Hillsborough County. Angler targeting and travel information may have several uses. Understanding what fish species are commonly targeted may help inform:

- Which species are most popular with local or non-local angler clients.
- How to best advertise fishing in this area—e.g. what fish species should be pictured in advertisements.
- Which fishery management rule changes **might** most affect the local for-hire industry and their angler clients.
- How changes in fish populations (like from a habitat change or fish kill) may affect the amount of for-hire fishing trips, angler travel, and eventually, local economies.

Information on where anglers come from when they fish local waters has multiple potential uses as well, and we think it can inform:

- Locations to place advertisements for local for-hire fishing. For example, does it make more sense to advertise Hillsborough County recreational fishing in New York, or in Georgia?.
- Which people might want to be involved in local for-hire fisheries decision-making. For example, if many angler clients who commonly fish Hillsborough County reside in other counties, these anglers may be interested in Hillsborough County rule changes.

Together, this information is intended to help the local for-hire fishing industry and related tourism industry of Hillsborough County. It may also be useful to the Hillsborough County Tourist Development Council, Chamber of Commerce, and Board of County Commissioners, especially if they work with or on behalf of the for-hire fishing industry to promote marine for-hire fishing-based tourism in Hillsborough County.

Where the information from this report comes from

All of the data in this report come from the NOAA's National Marine Fisheries Program (NMFS) Marine Recreational Information Program (MRIP). These data are publicly available for download at <https://www.fisheries.noaa.gov/recreational-fishing-data/data-downloads>. The MRIP program contains information voluntarily provided by anglers at fishing locations surveyed according to a scientifically designed sampling program. Data are continuously collected, but data in this report are for years 2011-2021. Future reports will show updated data as they are available.

NMFS MRIP background

What is MRIP—the Marine Recreational Information Program?

While commercial fishers have a separate reporting system with specific requirements for commercial fishers to report fishing locations and catches to state and federal agencies, no such requirements exist for recreational fishers. The MRIP is NMFS's way of gathering information needed to sustainably manage recreational fisheries. The MRIP allows state and federal researchers and managers to understand things like:

- How many recreational fishing trips are being taken in a region and time period?
- Are these trips for-hire, private-recreational (fishing out of a personal or rented vessel) or shore-based? These separate categories are called the fishing “mode” in MRIP.
- How many of these trips target a certain species?
- What state and county do anglers come from when they fish a certain area?
- Additional information about angler catch rates and sizes of fish.

These things (especially information about total fishing effort, catch rates, and fish size) can be important for developing stock assessments that inform fisheries management decisions. The MRIP system includes two main surveys. One is an “access point” or “intercept” survey designed to understand aspects of fishing trips like length of trip, origin, target species, etc. The other, **which this report does not use**, is designed to understand what proportion of the human population in an area is engaging in these types of fishing trips. Information from the two surveys is combined to allow researchers to estimate some of the information described in the bullet points above, as well as important things like the total amount of a certain fish species that recreational fishers harvest or remove in a region and time.

What MRIP information does this report use?

It is important to understand that this report does not use the estimates from MRIP. This report only uses the actual data provided by the angler intercept survey, and specifically this report only includes anglers indicating they were on for-hire trips. This means all the data here are exactly what anglers are telling surveyors when they are interviewed. This distinction is important for a couple reasons. The data used here are simply descriptive. We do not show “error” or “uncertainty” around them, because we are reporting the metrics from the database, and not extrapolating the data by any statistical weighting factors or subjecting them to statistical estimation processes. What this means, is that the data here should describe general trends like what people fish for and where they come from, as long as anglers are correctly reporting to surveyors what they did when they went fishing. These data also depend on the MRIP statistical process for determining how to survey which intercept sites (boat ramps, access points). There are a lot of statistical details on this last point, but in short, as long as the MRIP sites are sampled roughly in proportion to their use (so that more frequently used sites are sampled more), these trends shown here should be correct. However, please understand that MRIP was designed mostly for tracking “big picture” changes (such as state-wide trends in effort). Thus the information here is for

informational purposes, and the authors cannot guarantee the statistical accuracy or precision of what is presented.

Additional information about MRIP

A lot of additional information is available about the NMFS MRIP data and how these data are used. We have described the parts of this information that are important to know to understand and best use the data provided in this report. Additional information directly through NOAA Fisheries at <https://www.fisheries.noaa.gov/topic/recreational-fishing-data>, as well as through the Marine Resource Education Program, MREP (different from MRIP), for which more information is available at: <https://www.gmri.org/our-work/fisheries-convening/mrep-southeast>. Finally, many Florida Sea Grant agents and county faculty, FWC personnel, and University of Florida researchers know about MRIP and may be able to answer additional questions.

Fishing Trip Origins: Where do your anglers come from?

Background on data used

Every for-hire recreational fishing trip made has an origin and a destination. In MRIP, the origin is described as the angler's residence, and the destination is defined as where the angler was surveyed (e.g., boat ramp, fishing pier, etc.). For specifically the maps in this report, the **origin** is considered to be the population centroid of the angler's county-of-residence. The population centroid is the spatial location in a county that "balances" the counties population. This means the centroid is the most likely "average" location for a person to come from, given we know they live in a certain county. For example, in Collier County, the population centroid would be closer to Naples in the east, than it would be to the middle of the county, which is sparsely populated. The fishing site destinations that are surveyed include those in the MRIP Access Point Angler Intercept Survey (APAIS) and are selected as part of a statistically designed survey. Further information about APAIS and the specific destinations is available at: <https://www.fisheries.noaa.gov/recreational-fishing-data/public-access-fishing-site-register>

Fishing Trip Origins: Background on methods used

For the for-hire recreational fishing trip origin information, we use data available in the MRIP "trips" databases that describe the results of the MRIP APAIS survey—this is the information that anglers tell surveyors when they are interviewed about their trips. We designed queries that let us look at the for-hire angler clients that were interviewed in specifically Hillsborough County—i.e. the trips where anglers' fishing destination was in marine waters adjacent to Hillsborough County, regardless of where the origin was. Once we have isolated the trips occurring in Hillsborough County, we can analyze where most of these trips came from. Specifically, we can look at things like:

- The proportion of for-hire trips sampled in Hillsborough County that come from out-of-state origins.
- The proportion of for-hire trips sampled in Hillsborough County with in-state origins.
- Both the above, but for trips in a multi-county region that includes Hillsborough County.

One thing that is important to note is that we report the proportion of the sampled for-hire trips. This is not the same as reporting the total number of for-hire trips. Enumerating the total number of trips would require estimation tools that are not described here. However, because of the statistical design that the MRIP APAIS survey is implemented, the proportions we use (of sampled for-hire trips) should generally correspond to the total numbers of for-hire trips. What this means is that the information in this report can be very useful for understanding where people come from when they make for-hire marine fishing trips in Hillsborough County. Additional information on angler trip analyses is provided in (Camp et al. 2018).

We provide two types of information about angler origins:

- Tables describing where for-hire angler clients come from.

- Figures of maps graphically illustrating for-hire angler clients travel.

Fishing Trip Origins Results: Tables

We provide two tables summarizing where for-hire angler clients come from when they fish various parts of Florida and specifically the Tampa Bay region and Hillsborough County.

Table 1 compares the states that out-of-state angler clients come from when they fish either anywhere in Florida, the Tampa Bay region, or specifically Hillsborough County.

Table 2 shows the county-origins of for-hire trips made by Florida residents. It compares the proportion of sampled trips coming from counties by angler clients (*i*) living outside of the Tampa Bay region, (*ii*) living outside of Hillsborough County, and (*iii*) living anywhere in Florida, including Hillsborough County.

We anticipate these tables may be useful in several ways, including:

- Understanding where for-hire angler clients fishing in Hillsborough County come from, which may inform placement of fishing and tourism advertisements.
- Understanding how for-hire angler client origins may differ between Hillsborough County and surrounding areas. This can potentially be used to further fine tune efficient advertisement placement by identifying locations where for-hire fishing captains in Hillsborough County may compete more or less with nearby counties for angling visitors.
- Understanding what proportion of angler clients fishing Hillsborough County are local vs. visitors, which may be useful for deciding where to have meetings about Hillsborough County for-hire fishing.

Table 1

Out-of-state for-hire angler client origins comparison

Orig.(FL)	Prop.	Orig.(Tampa Bay)	Prop.	Orig.(Hillsborough)	Prop.
Georgia	0.112	Not Available	0.081	Georgia	0.091
Texas	0.075	Illinois	0.079	Texas	0.069
Not Available	0.061	Ohio	0.073	Michigan	0.066
Tennessee	0.060	Michigan	0.066	Illinois	0.061
Alabama	0.057	Indiana	0.057	Not Available	0.053
Illinois	0.048	New York	0.052	North Carolina	0.047
Ohio	0.045	Georgia	0.049	Tennessee	0.041
New York	0.040	Texas	0.048	Virginia	0.041
Michigan	0.039	Minnesota	0.047	Indiana	0.035
Indiana	0.033	Pennsylvania	0.039	New York	0.035

Table 1. State origins of for-hire angler clients fishing Florida, the Tampa Bay region, and Hillsborough County, for 2011-2021.

This table compares which states out-of-state for-hire angler clients come from when they fish either Florida as a whole, the Tampa Bay region (here defined as including Pinellas, Hillsborough, Manatee, and Sarasota counties), or Hillsborough County.

- Columns 1 & 2 show the state origins of non-Florida residents when they make a for-hire trip to Florida.
- Columns 3 & 4 show the state origins of non-Florida residents when they make a for-hire trip to the Tampa Bay region.
- Columns 5 & 6 show the state origins of non-Florida residents when they make a for-hire trip to Hillsborough County.

This comparison allows understanding where (i) out of state for-hire angler clients fishing Hillsborough County come from, and (ii) how that compares to the local region and broader state of Florida. This may be helpful for understanding if Hillsborough County is attracting for-hire angler clients from specific origins differently than the surrounding region of the Tampa Bay, or Florida as a whole.

The “Not Available” is returned either when for-hire angler clients refuse to give state of origin, or more often when they do not reside in the US-i.e. international visitors.

*Table 2**In-state for-hire angler client origin comparison*

Out-of-region Orig.	Prop.	Out-of-county Orig.	Prop.	Any Orig.	Prop.
Polk	0.192	Pinellas	0.298	Hillsborough	0.546
Pasco	0.185	Pasco	0.204	Pinellas	0.135
Orange	0.154	Polk	0.155	Pasco	0.092
Lake	0.051	Manatee	0.051	Polk	0.071
Seminole	0.039	Miami-Dade	0.035	Manatee	0.023
Marion	0.035	Orange	0.032	Miami-Dade	0.016
Hernando	0.030	Hernando	0.027	Orange	0.015
Volusia	0.024	Volusia	0.027	Hernando	0.012
Brevard	0.023	Sumter	0.021	Volusia	0.012
Palm Beach	0.023	Lake	0.019	Sumter	0.010

Table 2. County origins of Florida residents making for-hire trips to the Tampa Bay region and Hillsborough County, for 2011-2021.

This table compares which counties Florida resident angler clients come from when they make for-hire trips to the Tampa Bay region (Pinellas, Hillsborough, Manatee, and Sarasota counties) or specifically Hillsborough County.

- Columns 1 & 2 show origins of Florida resident angler clients fishing the Tampa Bay region who live outside of the Tampa Bay region.
- Columns 3 & 4 show origins of Florida resident angler clients fishing Hillsborough County but living outside of Hillsborough County.
- Columns 5 & 6 show origins of Florida resident angler clients fishing Hillsborough County, regardless of where in Florida they live.

This comparison allows understanding (i) where Florida resident angler who make for-hire fishing trips to the Tampa Bay region and Hillsborough County come from, and (ii) the Florida counties from which the greatest proportion of out-of-county for-hire trips come from.

Fishing Trip Origin Results: Maps

We provide several maps to graphically illustrate where sampled for-hire angler clients come from when they fish the Tampa Bay region and Hillsborough County. The maps show the “direct line” paths between the population centroids of angler clients’ county of residence and the location where they were sampled by the MRIP APAIS survey-i.e. their fishing destinations. For all maps, thicker and warmer colored lines indicate more trips from a given county to a given destination, and thinner and cooler colors suggests fewer trips. Here, different maps are created for different species, including the top five species targeted in the Tampa Bay region.

Figure 1 maps trips to Hillsborough County regardless of species targeted.

Figure 2 maps trips to the Tampa Bay region when anglers targeted Red grouper.

Figure 3 maps trips to the Tampa Bay region when anglers targeted King mackerel.

Figure 4 maps trips to the Tampa Bay region when anglers targeted Spanish mackerel.

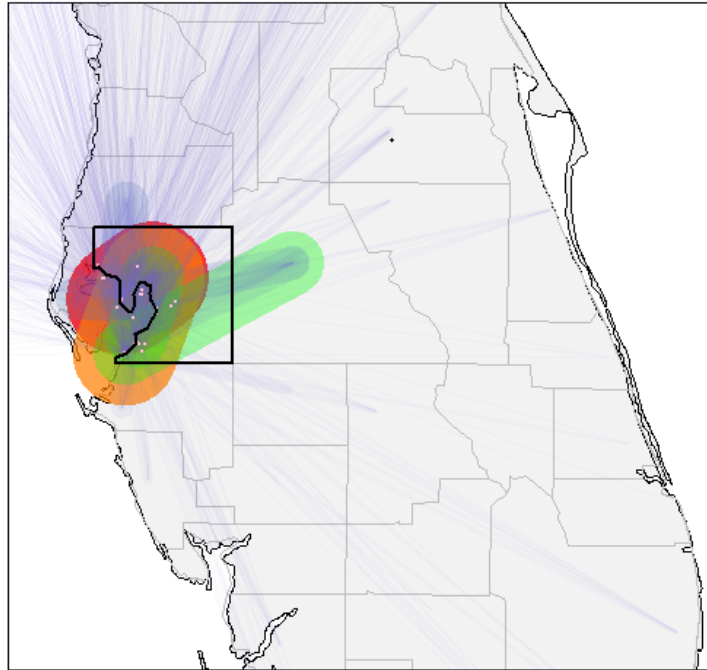
Figure 5 maps trips to the Tampa Bay region when anglers targeted Gag.

Figure 6 maps trips to the Tampa Bay region when anglers targeted Common snook.

The primary purpose of these figures is to serve as a visual aid to augment the use of the previous tables.

Figure 1.

Trips to Hillsborough County, all species

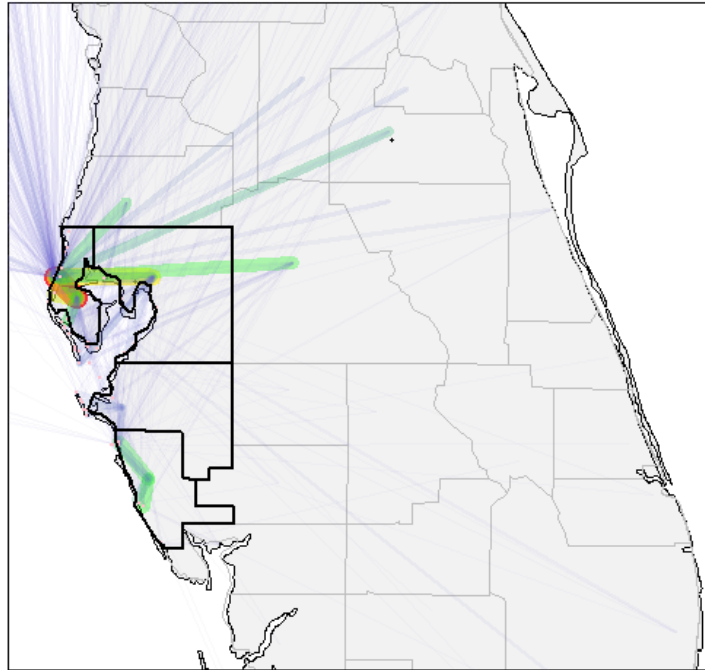


Source: NMFS MRIP Trips data

Figure 1. Map showing where for-hire trips fishing Hillsborough County originated in, regardless of species targeted, for 2011-2021. Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

Figure 2.

Trips to Tampa Bay, Red grouper

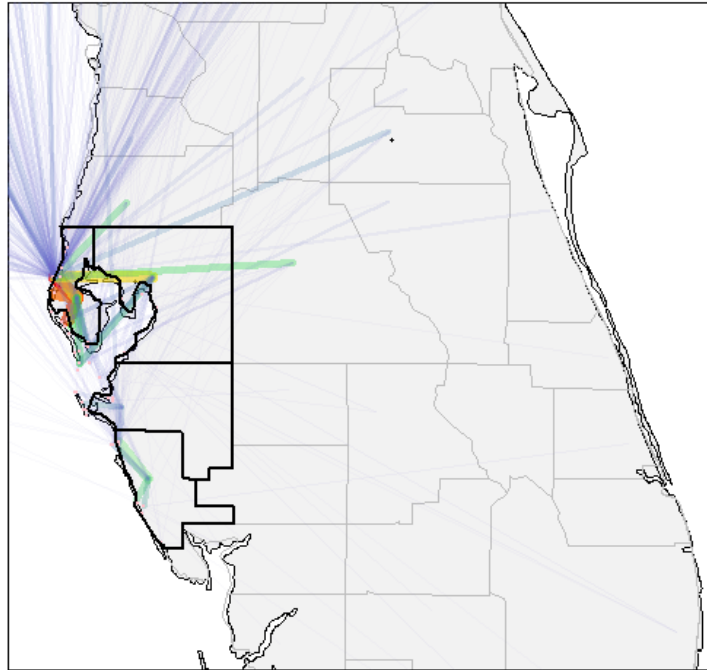


Source: NMFS MRIP Trips data

Figure 2. Map showing where for-hire trips fishing the Tampa Bay region originated in, when targeted Red grouper, for 2011-2021. Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

Figure 3.

Trips to Tampa Bay, King mackerel

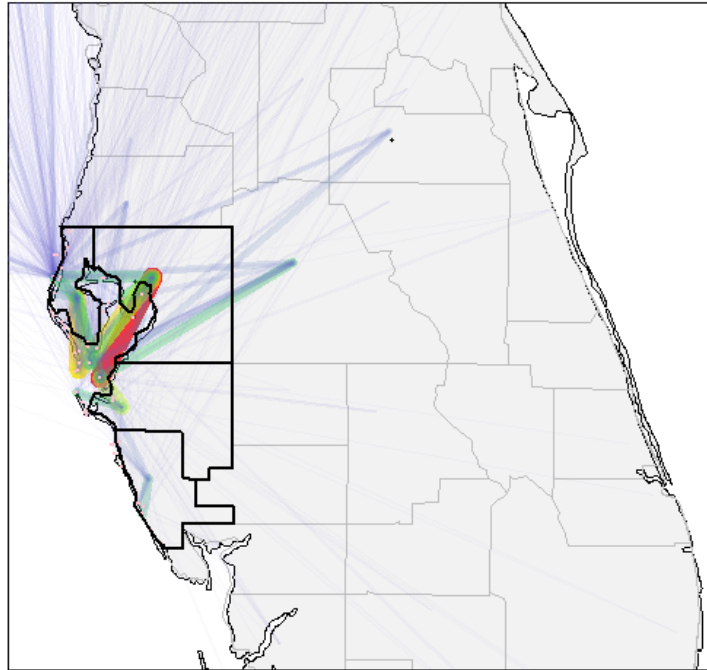


Source: NMFS MRIP Trips data

Figure 3. Map showing where for-hire trips fishing the Tampa Bay region originated in, when targeted King mackerel, for 2011-2021. Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

Figure 4.

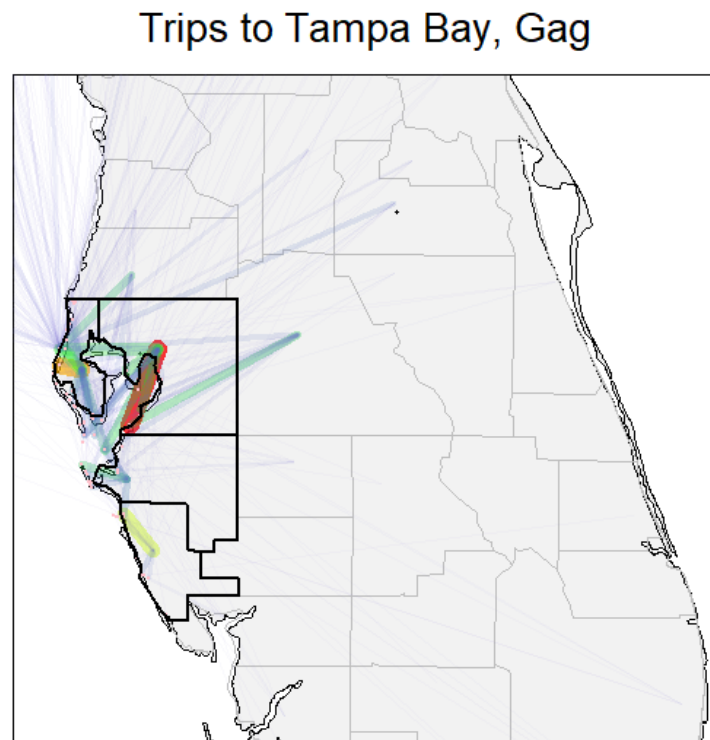
Trips to Tampa Bay, Spanish mackerel



Source: NMFS MRIP Trips data

Figure 4. Map showing where for-hire trips fishing the Tampa Bay region originated in, when targeted Spanish mackerel, for 2011-2021. Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

Figure 5.

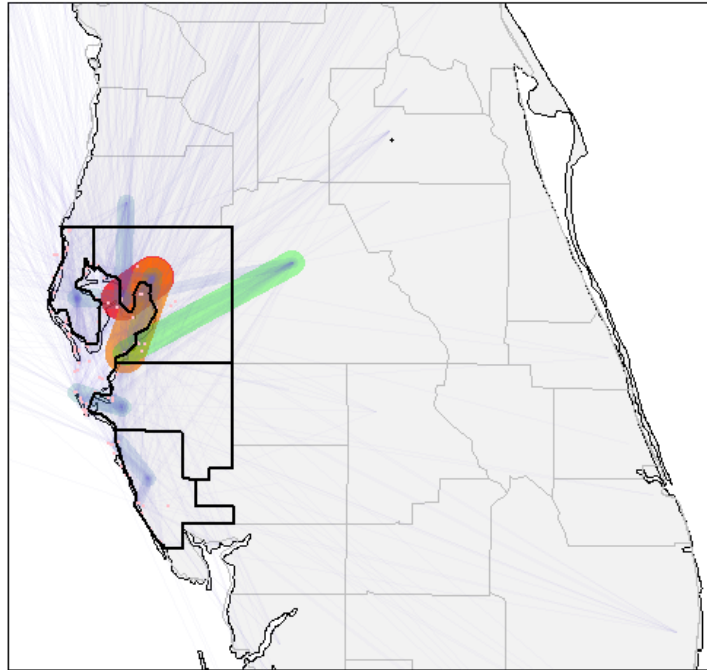


Source: NMFS MRIP Trips data

Figure 5. Map showing where for-hire trips fishing the Tampa Bay region originated in, when targeted Gag, for 2011-2021. Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

Figure 6.

Trips to Tampa Bay, Common snook



Source: NMFS MRIP Trips data

Figure 6. Map showing where for-hire trips fishing the Tampa Bay region originated in, when targeted Common snook, for 2011-2021. Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

Species targeted: What do your anglers fish for?

Background on data used

The MRIP APIAS includes questions about the species that interviewed anglers were targeting on their recently completed fishing trips. Specifically, anglers are asked what their “primary” and “secondary” targeted species were. Not all anglers provide a specific species, though often more for-hire angler clients do. The species targeted information can be used here to understand what species are most commonly targeted on for-hire trips. Further information about APAIS and the specific destinations is available at: <https://www.fisheries.noaa.gov/recreational-fishing-data/public-access-fishing-site-register>.

Species targeted: Background on methods used

To understand what fish species for-hire angler clients most commonly targeted, we use data available in the MRIP “trips” databases from specifically for-hire trips. These data contain the information that anglers tell surveyors when they are interviewed about their recreational fishing for-hire trips. We designed a series of queries to calculate the proportions of trips targeting specific fish species. Queries represented different scenarios regarding where anglers were intercepted (their destinations) and where they listed their home residence (their origin). This information was summarized by pooling trips over time—i.e. looking at the last 10 years (2011-2021) together. To assess potential changes in the fish that anglers target, we also analyzed time series for species most commonly targeted by for-hire angler clients. Time series were constructed by assessing the proportions of trips intercepted in the Tampa Bay region that targeted a specific species for each of the last 10 years.

Species targeted: Information provided

Two types of information products were developed:

- Tables describing the proportions of for-hire trips targeting different fish species at various combinations of fishing locations and residences.
- Figures showing the time series of proportion of for-hire trips taken in the Tampa Bay region targeting the most popular fish species.

One thing that is important to note is that we report the proportion of the sampled for-hire trips targeting a certain species. This is not the same as reporting the total number of for-hire trips. Enumerating the total number of trips would require estimation tools that are not described here. However, because of the statistical design used to implement the MRIP APAIS survey, the proportions we use (of sampled for-hire trips) should correspond to the total numbers of trips. What this means is that the information in this report can be very useful for things like understanding where people, on average, are coming from when they make for-hire trips to Hillsborough County.

Species Targeted Results: Tables

Tables describing the proportions of trips targeting different fish species at various combinations of fishing locations and residences, including:

- For-hire trips in all of Florida, regardless of origin.
- For-hire trips in Florida's 7 coast, regardless of origin.
- For-hire trips in the Tampa Bay region, regardless of origin.
- For-hire trips taken in Hillsborough County, regardless of origin.
- For-hire trips taken in Hillsborough County by Hillsborough County residents.
- For-hire trips taken in Hillsborough County by non-residents of Hillsborough County.
- For-hire trips taken in Hillsborough County by out-of-state anglers.

These results are summarized in two separate tables that promote comparison of Hillsborough County to surrounding areas. All results represent data pooled over the last 10 years (2011-2021).

We anticipate these tables may be useful in several ways, including:

- Understanding what species angler clients are targeting when they make for-hire trips in Hillsborough County, which may help inform advertising or business decisions by local for-hire captains.
- Understanding what species visiting (non Hillsborough-County residents) angler clients target, which may inform the media outlets and visuals (e.g., fish photos) of future advertisements or information produced by the Manatee County Tourism Development Council in support of the for-hire fishing sector.

*Table 3**Proportion of species targeted in for-hire trips, comparing county to state*

FL trips	Prop.	FL 7 trips	Prop.	Tampa Bay trips	Prop.	Hillsborough trips	Prop.
No Target	0.545	No Target	0.506	No Target	0.403	No Target	0.406
Red snapper	0.048	Red snapper	0.058	Red grouper	0.127	Common snook	0.222
King mackerel	0.045	Red grouper	0.048	King mackerel	0.099	Red drum	0.157
Dolphin	0.038	King mackerel	0.045	Spanish mackerel	0.080	Spotted seatrout	0.066
Red grouper	0.037	Dolphin	0.035	Gag	0.047	Gray snapper	0.049
Red drum	0.036	Red drum	0.035	Common snook	0.039	Spanish mackerel	0.034
Spotted seatrout	0.025	Spanish mackerel	0.030	Red drum	0.033	Sheepshead	0.024
Spanish mackerel	0.024	Spotted seatrout	0.030	Spotted seatrout	0.027	Gag	0.011
Atlantic tarpon	0.022	Atlantic tarpon	0.026	White grunt	0.026	Atlantic tarpon	0.008
Gag	0.018	Gag	0.023	Gray snapper	0.019	Stingray genus	0.008

Table 3. Comparison of species targeted in for-hire trips to Hillsborough County to other regions of Florida, for 2011-2021.

- Columns 1 & 2 show species targeted by for-hire trips made throughout Florida.
- Columns 3 & 4 show species targeted by for-hire trips made to the 7 coast of Florida.
- Columns 5 & 6 show species targeted by for-hire trips made in the Tampa Bay region.
- Columns 7 & 8 show species targeted by for-hire trips made in Hillsborough County.

*Table 4**Proportion of species targeted in for-hire trips, comparing county to state*

All Hillsborough trips	Prop.	In county trips	Prop.	Out of county trips	Prop.	Out of state trips	Prop.
No Target	0.406	No Target	0.383	No Target	0.417	No Target	0.455
Common snook	0.222	Red drum	0.205	Common snook	0.232	Common snook	0.218
Red drum	0.157	Common snook	0.200	Red drum	0.136	Red drum	0.104
Spotted seatrout	0.066	Gray snapper	0.071	Spotted seatrout	0.068	Spotted seatrout	0.061
Gray snapper	0.049	Spotted seatrout	0.062	Gray snapper	0.039	Gray snapper	0.042
Spanish mackerel	0.034	Spanish mackerel	0.040	Spanish mackerel	0.032	Spanish mackerel	0.038
Sheepshead	0.024	Sheepshead	0.020	Sheepshead	0.026	Sheepshead	0.036
Gag	0.011	Atlantic tarpon	0.007	Gag	0.013	Stingray genus	0.013
Atlantic tarpon	0.008	Gag	0.007	Stingray genus	0.010	Atlantic tarpon	0.011
Stingray genus	0.008	Cobia	0.002	Atlantic tarpon	0.008	Cobia	0.006

Table 4. Proportions of species targeted by for-hire fishing trips made in Hillsborough County by anglers from various origins, for 2011-2021.

- Columns 1 & 2 show the species targeted by all for-hire trips made in Hillsborough County.
- Columns 3 & 4 show the species targeted in Hillsborough County by Hillsborough residents making for-hire trips.
- Columns 5 & 6 show the species targeted in Hillsborough County by Florida residents not living in Hillsborough County making for-hire trips.
- Columns 7 & 8 shows the species targeted in Hillsborough County by non-residents of Florida making for-hire trips.

Species Targeted Results: Time series figures

We provide time series of the proportion of sampled for-hire trips that targeted each of the top nine species targeted in for-hire trips in the Tampa Bay region. Data are available for each year from 2011-2021, and represent the raw proportions of surveyed trips, which means that no uncertainty estimates (e.g. “error” bars) are relevant to these data.

The multi-panel figure below should primarily be useful for understanding how the species of fish for-hire angler clients target when they fish has changed in recent years. These changes may be related to changes in for-hire angler or captain preferences, but can have other causes as well, such as:

- Changes in costs of for-hire fishing (e.g., fuel or other variable costs).
- Changes in fishing regulations for specific species.
- Changes in fish populations, which can be the result of changing fishing, climate, fisheries management, or habitat, as well as perturbations like red tide or cold kills.

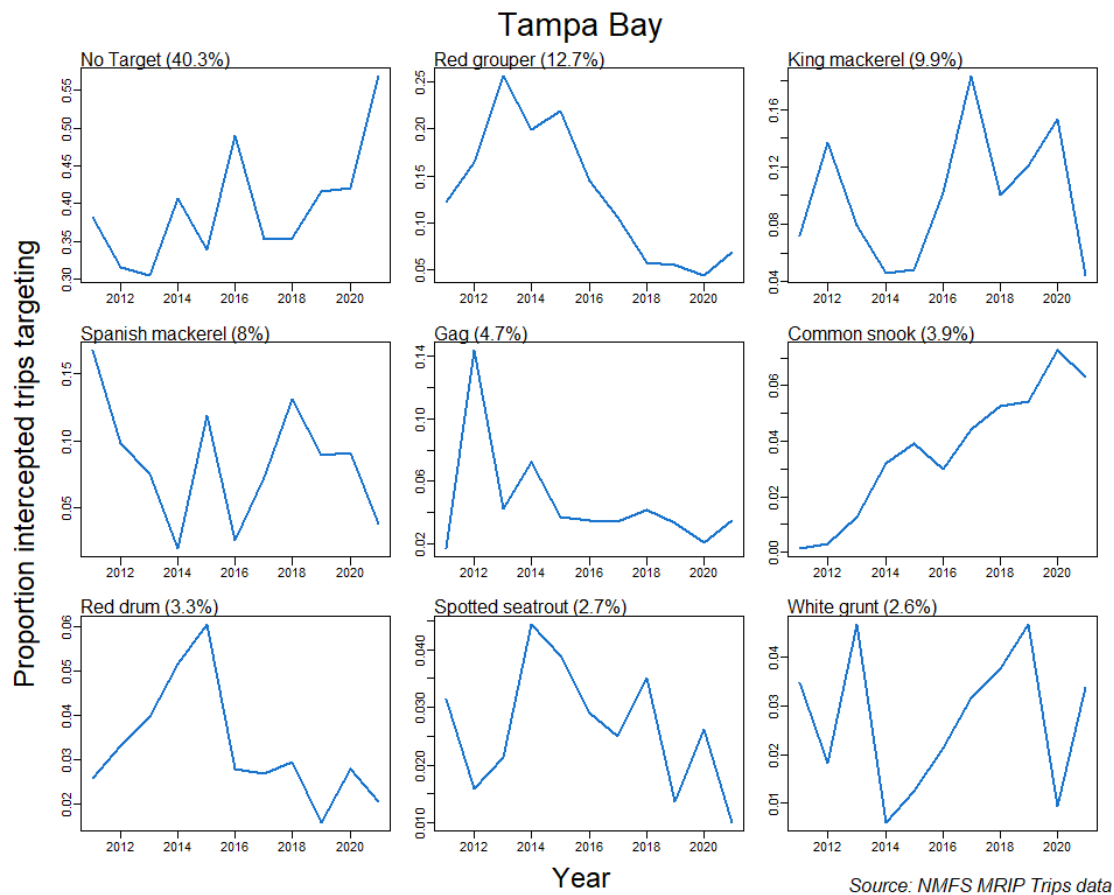


Figure 6. Time series of the proportion of sampled for-hire trips targeting each of the top 9 fish species targets in the Tampa Bay region, for 2011-2021.

Each panel describes the time series for one of the top-targeted fish species (including no species targeted, “No Target”). Proportion of total for-hire trips targeting each species over the entire span of years (2011-2021) shown is provided in parentheses following each species’ name.

Sample Sizes of data for this report

Some counties do not have a large for-hire fishing industry, and it is important to understand if the data in this report come from relatively small samples. Here we provide the sample sizes for some of the types of trips referenced here. Please note these sample sizes describe the number of trips **surveyed**, not the total number of trips taken.

Table 5

Proportion of species targeted in for-hire trips, comparing county to state

Type of for-hire trips	Number of trips sampled
All Tampa Bay Region	15263
All Hillsborough County	1459
Hillsborough trips by Hillsborough County residents	449
Hillsborough trips by FL but not Hillsborough County residents	373
Hillsborough trips by non-Hillsborough County residents	1010
Hillsborough trips by non-FL residents	637

Table 5. The number of for-hire fishing trips intercepted and surveyed that were used for this report. Note the table specifies sample sizes of for-hire trips taken to the broader Tampa Bay region as well as those taken to Hillsborough County. Samples sizes of for-hire trips to Hillsborough County are further described by origin.

References

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