

# Angler Travel and Targeting Report 2025:

## Palm Beach County

A data report for the Palm Beach County Tourist Development Council and Board of County Commissioners prepared by:

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## 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.

**Treasure Coast region:** refers to the areas of land and marine waters adjacent to St. Lucie, Martin, and Palm Beach 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. Because of their importance, marine recreational fisheries in Florida are carefully managed by state () 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 Palm Beach County Tourist Development Council and Board of County Commissioners. **Specifically this information can be used to inform advertisements of fishing-related tourism in Palm Beach County.**

### *What this report can be used for*

This report is designed to provide information about marine recreational fishing dynamics in Palm Beach County. Fishing dynamics include information about what species of fish recreational fishers (commonly called “anglers”) are most often trying to catch and where anglers come from when they fish marine waters from Palm Beach 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 anglers.
- How to best advertise fishing in this area—e.g. what fish species should be pictured in advertisements.
- Which rule changes local anglers will care the most about.
- How changes in fish populations (like from a habitat change or fish kill) may affect fishing effort, 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 fishing. For example, does it make more sense to advertise Palm Beach County recreational fishing in New York, or in Georgia?.
- Which people might want to be involved in local fisheries decision-making. For example, if many Palm Beach County anglers reside in other counties, these anglers should perhaps be surveyed prior to any rule changes.

Together, this information is intended to help local governance entities, like the Palm Beach County Tourist Development Council and Board of County Commissioners, access and use data that can help them better serve their constituents and sustain or improve the economic effects of marine recreational fishing in Palm Beach 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 2013-2023. Future reports will show updated data as they are available.

## NMFS MRIP background

### *What is MRIP?*

The Marine Recreational Information Program (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?
- How many of these trips target a certain species?
- What are angling catch rates and how are they changing?
- What are the sizes of fish that are harvested?

These things 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?*

This report only uses the actual data provided by the angler intercept survey, and does not use any of the MRIP estimates. This means all the data shown here are what anglers are saying when they are interviewed. We do not show “error” or “uncertainty” around the data presented because we are reporting the metrics from the database, and not extrapolating the data by any factors or subjecting them to statistical estimation processes. The data we report should be “correct” in that they are what is reported, but if few anglers are intercepted, these may not always describe the overall angler population.

### *Additional information about MRIP*

Additional information is available about the NMFS MRIP data and their use. 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, for which more information is available at: <https://www.gmri.org/our-work/fisheries-convening/mrep-southeast>. Finally, many Sea Grant agents and county faculty, personnel, and 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*

Recreational fishing trips all have an origin and a destination. In the MRIP data system, the origin is described as the angler's county of residence, and this report uses the population centroid of that county as the origin location. The MRIP data defines the destination as the specific place where the angler was intercepted by the MRIP survey (e.g., boat ramp, fishing pier, etc.). The fishing site destinations that are surveyed include those in the MRIP Access Point Angler Intercept Survey (APAIS). What is important is that these destination sites 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 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 anglers that were interviewed in specifically Palm Beach County—i.e. the trips where anglers' fishing destination was in marine waters adjacent to Palm Beach County, regardless of where the origin was. Once we have isolated the trips occurring in Palm Beach County, we can analyze where most of these trips came from. Specifically, we can look at things like:

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

One thing that is important to note is that we report the proportion of the sampled trips. This is not the same as reporting the total number of 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 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 fish Palm Beach 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 anglers come from.
- Figures of maps graphically illustrating anglers travel.

## Fishing Trip Origins Results: Tables

We provide two tables summarizing where anglers come from when they fish various parts of Florida and specifically the Treasure Coast region and Palm Beach County.

**Table 1** compares the states that out-of-state anglers come from when they fish either anywhere in Florida, the Treasure Coast region, or specifically Palm Beach County.

**Table 2** shows the county-origins of trips made by Florida residents. It compares the proportion of sampled trips coming from counties by anglers (*i*) living outside of the Treasure Coast region, (*ii*) living outside of Palm Beach County, and (*iii*) living anywhere in Florida, including Palm Beach County.

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

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

*Table 1*

*Out-of-state angler origins comparison*

Origin when fishing FL	Per. (%)	Origin when fishing Treasure Coast	Per. (%)	Origin when fishing Palm Beach	Per. (%)
Georgia	14.8	New York	10.5	New York	10.4
Alabama	6.3	Not Available	7.8	Not Available	9.3
Texas	5.7	New Jersey	7.4	New Jersey	7.0
Not Available	5.7	Georgia	5.7	Georgia	5.3
Tennessee	4.9	Michigan	5.1	Illinois	4.8
Ohio	4.8	Ohio	5.1	Michigan	4.8
Michigan	4.7	Illinois	5.0	Ohio	4.7
Illinois	4.5	Pennsylvania	4.5	Texas	4.7
New York	4.1	Texas	4.5	Pennsylvania	4.6
Pennsylvania	3.5	North Carolina	4.0	Maryland	4.0

**Table 1. Where out-of-state anglers came from when they fished Florida, the Treasure Coast region, and Palm Beach County, for 2013-2023.**

This table shows the top ten states that out-of-state come from when they fish in Florida. It allows comparisons of out-of-state origins for Florida as a whole, the Treasure Coast region (here defined as including St. Lucie, Martin, and Palm Beach counties), and Palm Beach County.

- Columns 1 & 2 show what states non-Florida residents come from when they fish in **Florida**.
- Columns 3 & 4 show what states non-Florida residents come from when they fish the **Treasure Coast** region.
- Columns 5 & 6 show what states non-Florida residents come from when they fish **Palm Beach** County.

This comparison allows understanding where (*i*) out of state anglers fishing Palm Beach County come from, and (*ii*) how that compares to the local region and broader state of Florida. This may be helpful for understanding if Palm Beach County is attracting anglers from specific origins differently than the surrounding region of the Treasure Coast, or Florida as a whole. The “Not Available” is returned either when anglers refuse to give state of origin, or do not reside in the US-i.e. international visitors.

**Table 2**

*In-state angler origin comparison*

Out-of-region Orig.	Per. (%)	Out-of-county Orig.	Per. (%)	Any Orig.	Per. (%)
Broward	21.3	Broward	25.2	Palm Beach	82.1
Indian River	20.5	Martin	21.0	Broward	4.5
Miami-Dade	7.1	St Lucie	9.4	Martin	3.8
Okeechobee	7.1	Miami-Dade	7.6	St Lucie	1.7
Orange	6.3	Orange	4.3	Miami-Dade	1.4
Brevard	5.2	Brevard	2.6	Orange	0.8
Polk	3.1	Hillsborough	2.3	Brevard	0.5
Hillsborough	2.9	Seminole	2.1	Hillsboroug h	0.4
Seminole	2.6	Lee	1.9	Seminole	0.4
Osceola	2.2	Indian River	1.8	Indian River	0.3

**Table 2. County origins of Florida anglers fishing the Treasure Coast region and Palm Beach county, for 2013-2023.**

This table compares which counties Florida resident anglers come from when they fish the Treasure Coast region (St. Lucie, Martin, and Palm Beach counties) or specifically Palm Beach County.

- Columns 1 & 2 show where Florida residents who live outside of the Treasure Coast region come from when they fish the Treasure Coast region.
- Columns 3 & 4 show where Florida residents who live outside of Palm Beach County come from when they fish Palm Beach County.
- Columns 5 & 6 show where Florida residents come from, regardless of where they live, when they fish Palm Beach County.

This comparison allows understanding (*i*) where Florida resident anglers fishing the Treasure Coast region and Palm Beach County come from, and (*ii*) the Florida counties from which the greatest proportion of out-of-county trips come from. It also may be useful to understand the approximate percent of trips that are made by county residents vs. all county non-residents. For Palm Beach County, 70% of trips intercepted were made by residents, and 30% were made by non-county residents.

## Fishing Trip Origin Results: Maps

We provide several maps to graphically illustrate where sampled anglers come from when they fish the Treasure Coast region and Palm Beach County. The maps show the “direct line” paths between the population centroids of anglers’ 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 Treasure Coast region.

**Figure 1** maps trips to Palm Beach County regardless of species targeted.

**Figure 2** maps trips to the Treasure Coast region when anglers targeted Dolphin.

**Figure 3** maps trips to the Treasure Coast region when anglers targeted Common snook.

**Figure 4** maps trips to the Treasure Coast region when anglers targeted Snapper family.

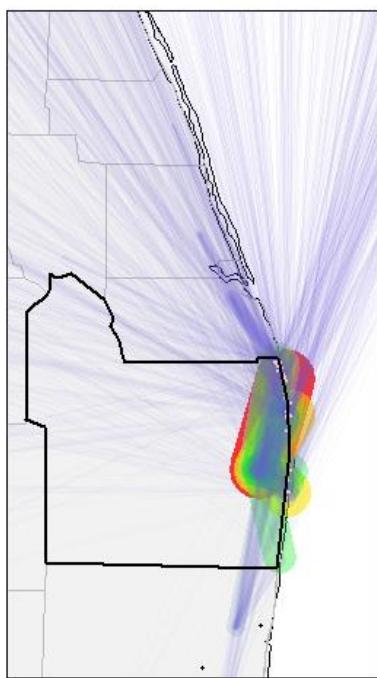
**Figure 5** maps trips to the Treasure Coast region when anglers targeted King mackerel.

**Figure 6** maps trips to the Treasure Coast region when anglers targeted Florida pompano.

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 Palm Beach County, all species

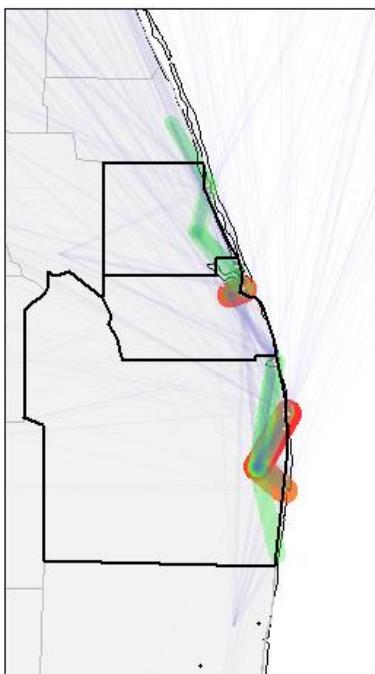


*Source: NMFS MRIP Trips data*

**Figure 1. Map showing where trips fishing Palm Beach County originated in, regardless of species targeted, for 2013-2023.** 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 Treasure Coast, Dolphin

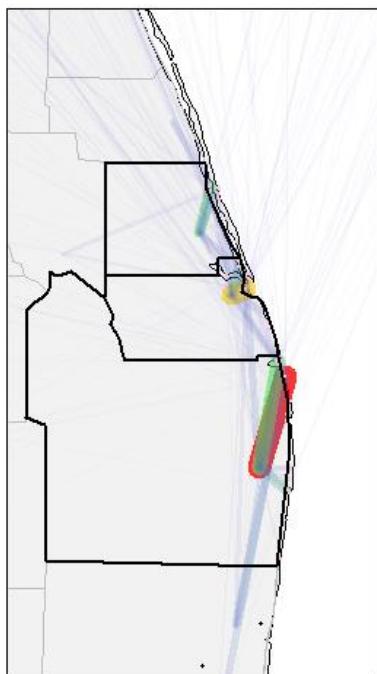


*Source: NMFS MRIP Trips data*

**Figure 2. Map showing where trips fishing the Treasure Coast region originated in, when targeted Dolphin, for 2013-2023.** 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 Treasure Coast, Common snook

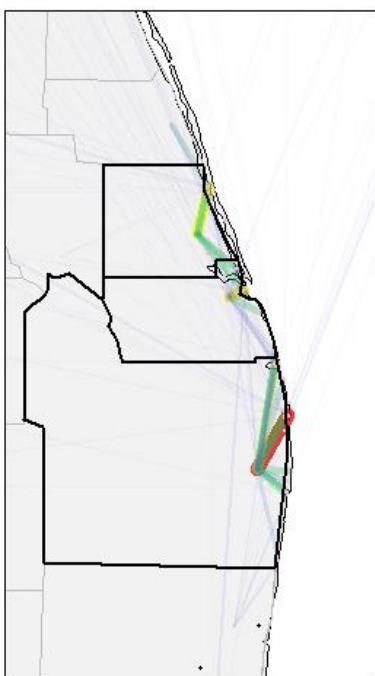


*Source: NMFS MRIP Trips data*

**Figure 3. Map showing where trips fishing the Treasure Coast region originated in, when targeted Common snook, for 2013-2023.** 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 Treasure Coast, Snapper family

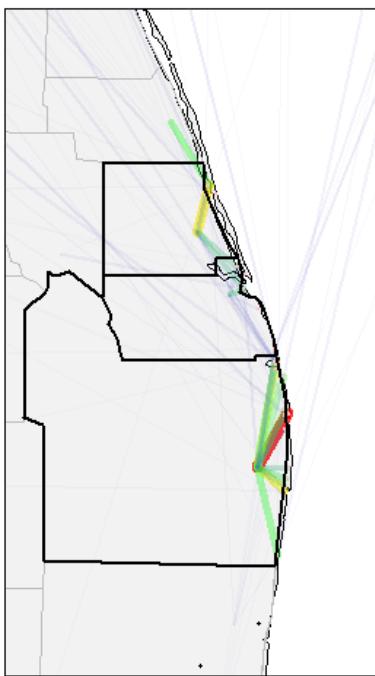


*Source: NMFS MRIP Trips data*

**Figure 4. Map showing where trips fishing the Treasure Coast region originated in, when targeted Snapper family, for 2013-2023.** Thicker and warmer colored lines show relatively more trips taken, and thinner, cooler colored lines show that relatively fewer trips were taken.

*Figure 5.*

### Trips to Treasure Coast, King mackerel

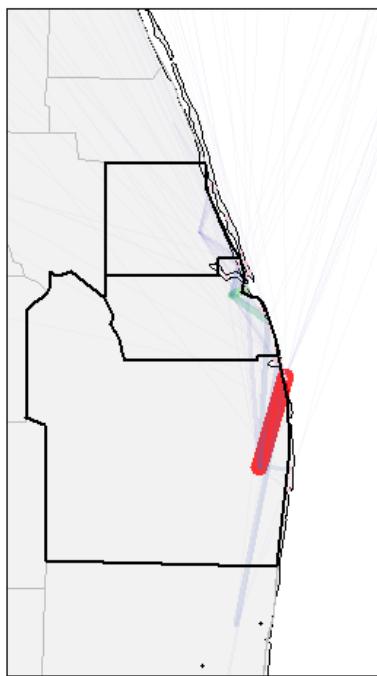


*Source: NMFS MRIP Trips data*

**Figure 5. Map showing where trips fishing the Treasure Coast region originated in, when targeted King mackerel, for 2013-2023.** 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 Treasure Coast, Florida pompano



*Source: NMFS MRIP Trips data*

**Figure 6. Map showing where trips fishing the Treasure Coast region originated in, when targeted Florida pompano, for 2013-2023.** 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 many anglers do not specify a target (e.g., “fishing for whatever is biting”), this information is also useful. 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*

We used MRIP “trips” data that contain information from intercepted angler interviews to understand what fish species anglers most commonly fished for. Essentially surveyors visit fishing access sites and ask anglers about their fishing trips. Data from these interviews are shown for different “queries”. 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 (2013-2023) together. To assess potential changes in the fish that anglers target, we also analyzed time series for some of the most commonly targeted species. Time series were constructed by assessing the proportions of trips intercepted in the Treasure Coast 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 trips targeting different fish species at various combinations of fishing locations and residences.
- Figures showing the time series of proportion of trips taken in the Treasure Coast region targeting the most popular fish species.

It is important to note is that we report the percent of the sampled trips targeting a certain species, not the actual total estimates of trips targeting a species. The percentages we use here should closely match estimates because of the statistical design used to implement the MRIP APAIS survey. This means is that the information in this report can be very useful for things like understanding what people, on average, are fishing for when they fish Palm Beach County, but it wouldn’t be appropriate to try to use these percentages to understand the total amount of fishing effort.

## Species Targeted Results: Tables

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

- Trips in all of Florida, regardless of origin.
- Trips in the Treasure Coast region, regardless of origin.
- Trips taken in Palm Beach County, regardless of origin.
- Trips taken in Palm Beach County by Palm Beach County residents.
- Trips taken in Palm Beach County by non-residents of Palm Beach County.
- Trips taken in Palm Beach County by out-of-state anglers.

These results are summarized in two separate tables that promote comparison of Palm Beach County to surrounding areas. All results represent data pooled over the last 10 years (2013-2023).

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

- Understanding what species anglers are targeting when they fish in Palm Beach County, which may help inform local government interest in state and regional fisheries management issues.
- Understanding what species visiting (non Palm Beach-County residents) anglers target, which may inform the media outlets and visuals (e.g., fish photos) of future advertisements).

*Table 3*

*Proportion of species targeted, comparing county to state*

FL trips	Per. (%)	Treasure Coast trips	Per. (%)	Palm Beach trips	Per. (%)
No Target	46.0	No Target	47.4	No Target	50.6
Red drum	10.3	Dolphin	15.8	Dolphin	15.0
Spotted seatrout	6.4	Common snook	8.1	Common snook	6.8
Common snook	4.7	Snapper family	4.5	Snapper family	4.3
Dolphin	3.7	King mackerel	2.8	King mackerel	3.1
King mackerel	2.6	Florida pompano	2.2	Wahoo	2.9
Red snapper	2.6	Sailfish	2.0	Sailfish	2.5
Gray snapper	2.5	Wahoo	2.0	Florida pompano	1.7
Spanish mackerel	2.3	Snook genus	1.5	Snook genus	1.6
Sheepshead	2.0	Spanish mackerel	1.5	Spanish mackerel	1.5

**Table 3. Comparison of species targeted in Palm Beach county to other areas of Florida, for 2013-2023.**

- Columns 1 & 2 show species targeted for trips made throughout Florida.
- Columns 3 & 4 show species targeted for trips made in the Treasure Coast region.
- Columns 5 & 6 show species targeted for trips made in Palm Beach County.

*Table 4*

*Proportion of species targeted, comparing county to state*

In county trips	Per. (%)	Out of county trips	Per. (%)	Out of state trips	Per. (%)
No Target	46.3	No Target	60.6	No Target	72.6
Dolphin	17.3	Dolphin	9.7	Dolphin	6.2
Common snook	6.8	Common snook	6.6	Sailfish	6.0
Snapper family	4.8	Sailfish	4.5	Common snook	3.3
King mackerel	3.5	Snapper family	3.0	Snapper family	2.3
Wahoo	3.3	King mackerel	2.2	Wahoo	1.4
Florida pompano	1.8	Wahoo	1.9	Florida pompano	1.2
Spanish mackerel	1.8	Florida pompano	1.6	King mackerel	1.2
Sailfish	1.6	Snook genus	1.5	Blackfin tuna	0.6
Snook genus	1.6	Spanish mackerel	1.0	Bluefish	0.5

**Table 4. Proportions of species targeted by fishing trips made in Palm Beach county by anglers from various origins, for 2013-2023.**

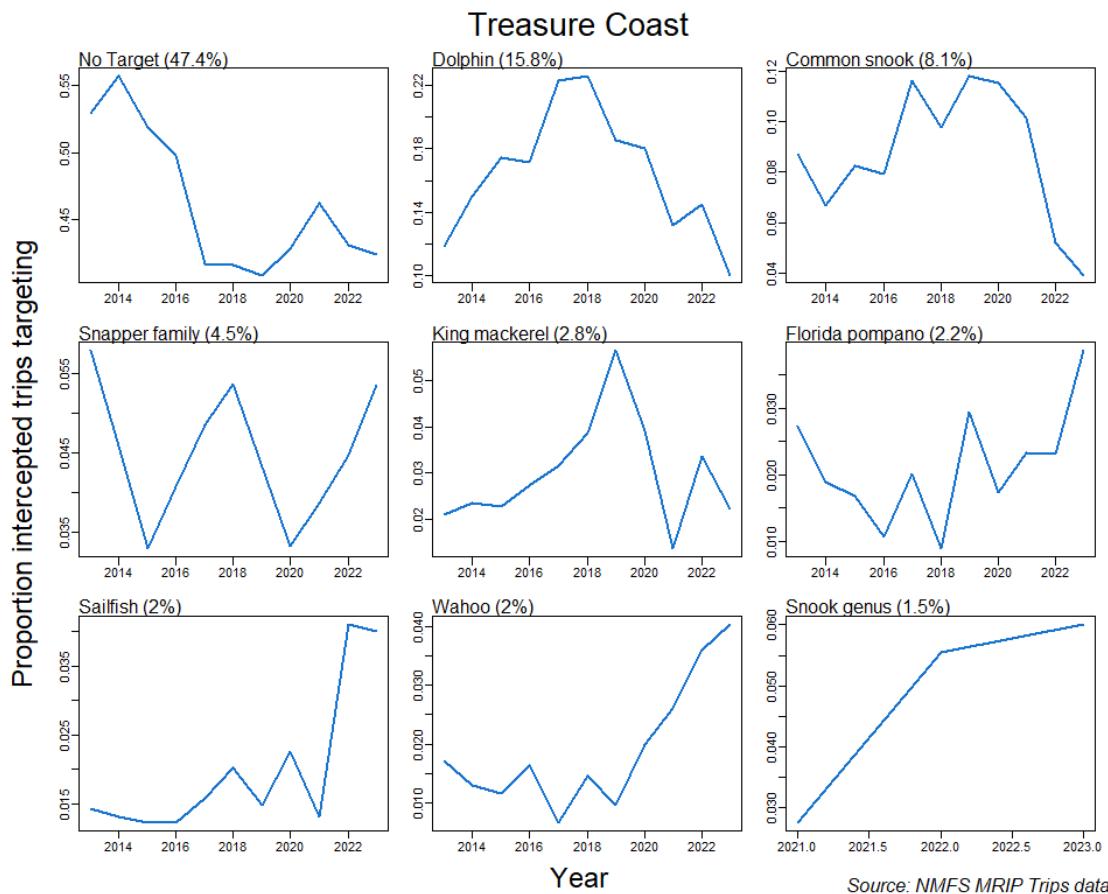
- Columns 1 & 2 show the species targeted in Palm Beach County by Palm Beach County residents.
- Columns 3 & 4 show the species targeted in Palm Beach County by Florida residents not living in Palm Beach County.
- Columns 5 & 6 shows the species targeted in Palm Beach County by non-residents of Florida.

## Species Targeted Results: Time series figures

We provide time series of the proportion of intercepted trips that targeted each of the top nine species fished for in the Treasure Coast region. Data are available for each year from 2013-2023, 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 anglers target when they fish has changed in recent years. These changes may be related to changes in angler’s preferences, but can have other causes as well, such as:

- Changes in costs of fishing (e.g., fuel), since some species require larger boats or longer travel times to target.
- Changes in fishing regulations for specific species.
- Changes in knowledge of how to successfully target specific species.
- Changes in fish populations, which can be the result of changing fishing, fisheries management, or habitat, as well as perturbations like red tide or cold kills.



Source: NMFS MRIP Trips data

**Figure 6. Time series of the proportion of intercepted trips targeting each of the top 9 fish species targets in the Treasure Coast region, for 2013-2023.**

Each panel describes the time series for one of the top-targeted fish species (including no species targeted, “No Target”). Proportion of total trips targeting each species over the entire span of years (2013-2023) shown is provided in parentheses following each species’ name.

## References

- Camp, E. V., Ahrens R. N. M., C. Crandall, and K. Lorenzen. 2018. "Angler travel distances: Implications for spatial approaches to marine recreational fisheries governance." *Marine Policy* 87: 263–74.