Chapter III: MARINE RECREATIONAL FISHERY STATISTICS

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PROGRAM NARRATIVE

Information on commercial fisheries has long been collected by the National Oceanic and Atmospheric Administration (NOAA) Fisheries, formerly the National Marine Fisheries Service (NMFS). However, data on marine recreational fisheries were not collected in a systematic manner by NOAA Fisheries on a continuing basis until 1979. The purpose of the NOAA Fisheries Marine Recreational Information Program (MRIP) is to establish a reliable database for estimating the impact of marine recreational fishing on marine resources.

Effective fisheries management requires information on the number and size distributions of each species caught in every state, sub-region, or finer sub-unit. The North Carolina Fisheries Reform Act of 1997 mandated the development of fishery management plans (FMPs) for fisheries of importance to North Carolina. The estimates of finfish harvest and angler participation provided by the MRIP play a key role in the FMP development process. The MRIP helps meet the goals of the Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA). The MSFCMA mandates a national program for management of fishery resources in the ocean zone known as the Exclusive Economic Zone (EEZ), or the area between 3 to 200 miles from shore. MSFCMA also requires that fishery management plans consider both recreational and commercial fisheries as well as their harvests.

To improve the precision of estimates, the North Carolina Division of Marine Fisheries (NCDMF) increased the annual number of anglers interviewed by approximately six times (1,400 to 8,000), beginning in 1987. A target sample size of 15,000 angler intercepts was later established to further improve precision of catch estimates, which improved dramatically. The NCDMF also implemented quality control measures needed to improve estimates of catch.

The NCDMF receives approximately 700 data requests for information from MRIP each year. This chapter is designed to help understand how the data are collected and what types of data are available within this program. This summary should also allow individuals to more precisely choose the information that is most applicable to their specific needs.

SURVEY METHODOLOGY

Marine Recreational Information Program (MRIP)

MRIP is a national program that uses several surveys to obtain catch and effort data for marine finfish at the regional level. MRIP evolved from the Marine Recreational Fisheries Statistics Survey (MRFSS) and included improvements in survey and estimation methodologies to remove sources of bias. Prior to 2018, MRIP consisted of two complementary surveys: 1) the Coastal Household Telephone Survey (CHTS), a random-digit-dialing landline telephone survey within the coastal zones of each state to determine the number of fishing households and the numbers of fishing trips taken and 2) the Access Point Angler Intercept Survey (APAIS) for obtaining catch rates and species composition from anglers fishing in shore-based, charter boat, and private boat fishing modes. The data from the two surveys were combined to provide estimates of the total number of fish caught, released, and harvested; weight of the harvest; total number of trips; and the number of people participating in marine recreational fishing. The National Research Council (NRC) identified under-coverage, inefficiency, and bias issues within the MRFSS survey and estimation methodologies (NRC 2006). These deficiencies spurred the development of MRIP as an alternative data collection program to MRFSS.

The APAIS component of MRIP was improved in 2013 to sample throughout the day (24-hour coverage) and remove any potential bias by controlling the movement of field staff to alternative sampling sites. Before this improvement, samplers were allowed to move from their assigned site to more active fishing locations but could not statistically account for this movement when calculating estimates. MRIP also implemented the Fishing Effort Survey (FES) in 2018 to address the NRC concerns of under-coverage of the angling public, declining number of households using landline telephones, reduced response rates, and memory recall issues of the CHTS.

Now, MRIP consists of two complementary surveys: 1) a mail survey of households (FES) in coastal counties to obtain fishing effort information and 2) an intercept survey of anglers (APAIS) at shore side access sites to obtain catch rates and species composition. The data from the two surveys are combined to provide estimates of the total number of fish caught, released, and harvested; the weight of the harvest; the total number of trips; and the number of people participating in marine recreational fishing. For-hire fishing effort is captured through telephone interviews of for-hire captains. All states on the Atlantic and Gulf coasts participate in the FES and APAIS except for Texas and Louisiana.

Dockside Interviews

The intercept survey gathers catch and demographic data from marine recreational anglers who have just completed fishing in one of five fishing modes (the type of place or platform from which marine recreational fishing occurred):

- Charter boat
- Private/rental boat
- Beach/bank
- Man-made structure
- Head boat

The intercept survey in North Carolina continuously samples angler catches throughout the year. Intercept sampling is separated by mode and wave (two-month period).

A complete statewide list of access sites for marine recreational fishing is continuously updated (https://www.st.nmfs.noaa.gov/msd/html/siteRegister.jsp). Sites are chosen for interviewing by randomly selecting from access sites that are weighted by estimates of expected fishing activity. The sites are weighted to ensure that each angler trip has a representative probability of being included in the sample. Sampling is distributed among weekdays, weekends, and holidays.

Anglers are intercepted, screened, and interviewed at assigned access sites upon completion of their fishing trips. Data are recorded on standard APAIS coding forms (Appendix 2). At heavy use sites, every attempt is made to intercept and interview all anglers. If that is not possible, angler counts are obtained to augment interviews. In 2005, NCDMF began routine sampling of head boats to obtain length data from discards.

Each intercept interview consists of:

- an introduction to the survey,
- an oral interview concerning the fishing trip just completed,
- thorough examination of the respondent's catch (visually inspect for correct species identification), and
- measurement of lengths and weights from all the fish in the respondent's catch (or if necessary, a random sample).

Interview procedures vary slightly among fishing modes:

- Private/rental/charter boat anglers are interviewed at boat ramps, marina slips, and hoists while they are leaving their boats or dockside while they are cleaning their boats.
- Anglers fishing from natural shorelines can be widely distributed along beaches and banks with multiple access points. Samplers often have to move from angler to angler within the defined boundaries of the site to obtain interviews.
- Man-made structures commonly have a single exit point where samplers can easily intercept departing anglers.
- Head boat sampling is conducted onboard the vessel at sea.

Interviewing procedures have been developed to allow separate recording of information on:

- catch unavailable for identification (Type B catch),
- available catch that cannot be easily subdivided among anglers,
- catch obtained during multiple-day boat trips, and
- at-sea discards from head boats.

Fish that are available for identification, enumeration, weighing, and measuring by the interviewers are called landings or Type A catch. Fish not brought ashore in whole form but used as bait, filleted, discarded dead, or are otherwise unavailable for inspection are called Type B1 catch. Finally, fish released alive are called Type B2 catch. Type A and Type B1 together comprise harvest, while all three types (A, B1, and B2) represent total catch.

Species such as Flounder and Kingfish are morphologically ambiguous and cannot be reliably identified to the species level by the angler. As such, discards are identified to the nearest taxonomic category and estimates of released catch are produced at the genus level. Because there are no sources of information with an appropriate timeline or area resolution that can be used to partition the released estimates of ambiguous congener species into their constituent species, Type A catch is used to delineate between them. For example, a ratio of Southern Flounder, Summer Flounder, and Gulf Flounder to total flounder observed is determined from the Type A catch at the estimation level (i.e., state, year, wave, area). These proportions of Southern, Summer, and Gulf Flounder are applied to the estimates of left-eyed flounder released (unobserved Type B2) catch to produce estimates of discards for each of the specific flounder species. An identical approach is applied to Kingfish (e.g., Gulf, Southern, Northern) as well as Spotted Seatrout and Weakfish.

For the Type B catch (fish not available for the interviewer's examination), information is only recorded for individual anglers. Beginning in 2005, head boat anglers were sampled at sea, allowing accurate identification of Type B catch for the first time. For the Type A catch (fish available for inspection), grouped catch is allowed, except when in beach/bank mode. This is a concession to the fact that multiple anglers often will keep all their catch in a single container and at the end of the trip, they are not sure who caught which fish.

Fishing Effort Survey

The FES mail survey employs a dual-frame design with two non-overlapping frames: 1) state residents sampled from the United States Postal Service computerized delivery sequence file (CDS) and 2) non-residents sampled from state-specific lists of licensed saltwater anglers. Non-residents are defined as individuals who were licensed to fish in one of the target states but lived in a different state. Sampling from the CDS uses a stratified design in which households with licensed anglers are identified prior to data collection. The address frame for each state is stratified into coastal and non-coastal strata defined by geographic proximity to the coast. For each wave and stratum, a simple random sample of addresses are selected from the CDS and matched to addresses of anglers who are licensed to fish within their state of residence. Non-resident anglers were sampled directly from state license databases. The sample frame for each of the targeted states consisted of unique household addresses that were not in the targeted state but had at least one person with a license to fish in the targeted state during the wave.

The FES mail survey (Appendix 3) collects fishing effort data for all household residents, including the number of saltwater fishing trips by fishing mode (shore and private boat). The FES is a self-administered mail survey, administered for six, two-month reference waves annually. The initial survey mailing is sent one week prior to the end of the reference wave so that materials are received right at the end of that wave. This initial mailing is delivered by regular, first-class mail and includes a cover letter stating the purpose of the survey, a survey questionnaire, a postage-paid return envelope, and a \$2 cash incentive. One week after the initial mailing, a follow-up, thank you and reminder postcard is mailed via regular first-class mail to all sampled addresses. For addresses that could be matched to a landline telephone number, an automated voice message is also delivered as a reminder to complete and return the questionnaire. Three weeks

after the initial survey mailing, a final mailing is delivered to all addresses that have not yet responded to the survey.

Effort Estimates

In the MRIP, fishing effort is defined as the estimated number of fishing trips taken by individual anglers. The number of individual fishing trips is estimated for each state, coastal county, mode, and bimonthly wave. Total effort represents residents who are coastal, non-coastal, and out-of-state. Data from the mail survey of households are used to calculate the mean number of trips per household in each fishing mode during each wave.

The FES estimates fishing effort by residents of sampled states in number of angler-trips. The basic approach uses a Horvitz-Thompson total estimator with sample weights that reflect sample inclusion probabilities, a nonresponse adjustment, and a post-stratification adjustment to known population totals. A final adjustment that accounts for non-resident (i.e., out of frame) fishing activity is applied to estimate total effort by fishing mode. This adjustment is derived from the APAIS.

After the final effort estimates are generated, they are stratified into primary fishing areas to produce effort estimates by state, mode, wave, and area. An area is defined by the distance offshore where the fishing took place. The areas are inland, ocean <= 3 miles, and ocean > 3 miles, although this can vary from state to state (see *Appendix III.4* for complete definitions and discussion). Within each state, wave, and mode, trips are allocated to a primary fishing area in proportion to the number of interviewed anglers in that state, wave, and mode who made trips in that area. The intent is to produce effort estimates at a level that is suitable for multiplication with catch per angler trip estimates from the intercept survey.

Catch Estimates

The catch of each finfish species is estimated for each sub-region, state, fishing mode, primary fishing area, and wave. The total number of fish caught in a particular fishing mode and area of fishing is estimated from:

- the estimated number of fishing trips taken in that state, wave, mode, and area; and
- the mean number of fish caught per trip taken in that state, wave, mode, and area.

Not all fish that are caught by intercepted anglers are available for the interviewer's inspection. The intercept interview and the estimation procedures distinguish between those fish brought ashore in whole form, and those not brought ashore in whole form:

- Fish that are available for identification, enumeration, weighing and measuring by the interviewers are called landings or Type A catch.
- Fish not brought ashore in whole form but used as bait, filleted, or discarded dead are called Type B1 catch (Type A and Type B1 together comprise harvest).
- Fish released alive are called Type B2 catch.

Catch per trip estimates and expanded catch estimates are made for these three types of catch. Total Catch is the sum of Type A catch, Type B1 catch, and Type B2 catch. The purpose is to

distinguish between those species identified and measured by trained interviewers, and those species reported to the interviewers by anglers. Anglers occasionally misidentify species; therefore, their reported measurements are subject to several types of bias.

As noted above, only individual interviews are allowed for Type B catch, while for Type A catch some amount of clustering is allowed and accounted for in the estimation. Self-weighting estimators of catch per trip were used, meaning that the site selection methodology (giving sites with more anglers a higher probability of being sampled) ensures all angler trips have an equal probability of being included in the sample.

Lengths and weights are obtained by sampling the fish caught and brought ashore in whole form by intercepted anglers. Therefore, estimated weights can only be calculated directly for Type A catch fish. Since the size composition of the remainder of the total catch (Type B1 catch and Type B2 catch) is unknown and may differ from that of the fish represented in Type A catch, estimating the weight of the remainder of the catch is not possible without assumptions.

In estimating the weight of harvested fish (Type A and B1 catch), we assume that the mean weight of the Type B1 catch is equal to that of the Type A catch for each sub-region, state, mode, primary area, wave, and species.

Most of the trips sampled in the intercept survey are completed trips with anglers being interviewed only at the end of the fishing trip. Some incomplete trips are sampled in the shore mode which are converted into complete trips by multiplying the recorded catch per hour by the anticipated total trip length. Once catch per trip estimates have been produced for each sub-region, state, wave, mode, area, species, and catch type, they can be multiplied by the appropriate effort estimate to produce estimates of total catch. For estimates of total harvest weight, these total catch estimates are in turn multiplied by the average weight per measured fish in the appropriate mode and area.

Catch estimates are obtained using information from both the dockside interviews and mail/telephone surveys using the following formula:

(Angler Trips) * (Average Catch Per Angler Trip) = Total Catch

where trips equal the total number of finfish trips by mode and area, average catch per trip is the mean catch by species, mode, and area, and total catch is the total of each species by mode and area.

Catch estimates have been calibrated by NOAA to create a fully compatible timeseries of data that spans from 1981 to the present.

Precision of Estimates

The numbers and pounds presented are estimates, not actual counts; therefore, the level of precision varies. Precision refers to the estimate's variability. Statistical comparison between numbers must include this variability.

Precision refers to the dispersion of the sample measurements used to calculate an estimate and the resultant variability in the estimate. The square root of the estimate of sampling variance is an

estimate of the standard error of the estimate and is almost universally used in sample surveys as a measure of precision.

The standard error is necessary for calculating confidence intervals around an estimate. The width of a confidence interval is a function of the probability level selected and is determined from the student's t-distribution or the normal distribution. Using the normal distribution, the most used confidence interval (a 95% confidence interval) is given by:

estimate +/- 1.96 * (estimate of standard error).

Confidence intervals provide another indication of the precision of the estimated total catch. At the same confidence level, a broad interval relative to the estimate indicates a less precise estimate than does a narrow interval. The 95% confidence interval indicates a 95% certainty that the actual total catch is between the upper and lower confidence limits.

The standard error is also used to calculate the percent standard error (PSE). The PSE expresses the standard error as a percentage of the estimate (standard error/estimate). It provides an alternative measure of precision and is useful in comparing the relative precision of two estimates.

A small PSE indicates a more precise estimate than does a large PSE. A PSE of 20% or less is generally considered acceptable in fisheries data. An alternative way of expressing a 95% confidence interval, in terms of percentages, would be:

estimate +/- (1.96 * PSE) percent.

SURVEY LIMITATIONS

Rare Event and Pulse Species

Species that seldom occur in recreational catches are referred to as rare event species. They include such species as Tripletail, Tarpon, Swordfish, Gulf Flounder, etc. Pulse fisheries target species such as Cobia that are highly migratory and only occur seasonally in North Carolina waters, as well as species such as Red Snapper which have a very limited recreational season. For both rare event and pulse fishery species, samplers are unable to intercept enough anglers with these species in their catch to produce precise estimates of catch.

Anadromous Species

The MRIP is only conducted in saltwater and brackish water areas, along with tidal portions of sounds, bays, and rivers. Freshwater areas are not included in the survey. Alternative methods for assessing recreational catch of freshwater resident species and anadromous species such as American Shad, Hickory Shad, and Striped Bass must be considered. See chapter IV.

CONTACTS

The MRIP is administered by the NOAA Fisheries Office of Science & Technology, Fisheries Statistics Division. Several states, including North Carolina, manage the dockside sampling portion of the survey. Catch and effort estimates by year and species are available back to 1981. In North Carolina, this project is supported, in part, by the US Fish and Wildlife Service through the Sport Fish restoration Program, Grant F-31. For additional information regarding the survey or to request data not presented in this report, please contact:

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Table III.1 North Carolina marine recreational finfish harvest by species.

Chasias	Number Harve	ested	Pounds Harve	sted
Species -	2022	2021	2022	2021
Amberjacks	5,387	8,946	79,265	159,419
Barracudas	1,939	2,936	29,368	33,469
Bass, Sea	151,867	50,612	253,302	79,195
Bass, Striped ¹	0	0	0	0
Bluefish	1,533,911	982,389	1,645,410	1,031,760
Bonito, Atlantic	12,301	20,177	70,411	104,789
Cobia	12,330	10,970	306,411	356,340
Croaker, Atlantic	1,110,382	1,066,533	481,721	376,121
Dolphin	117,803	268,012	962,267	1,945,342
Drum, Black	264,634	121,454	1,710,528	359,481
Drum, Red	336,280	325,662	1,615,108	1,479,550
Flounder, Southern	70,945	266,421	166,102	560,440
Flounder, Summer	10,591	13,863	22,151	27,492
Groupers	4,498	11,721	54,664	100,450
Grunts	32,828	36,521	22,702	34,697
Jacks	13,304	14,067	24,617	146,961
Kingfishes	2,802,837	2251108	1,631,041	1,583,649
Mackerel, King	38,512	58,174	375,164	563,082
Mackerel, Spanish	1,898,755	1,312,929	1,841,527	1,894,535
Perch, Silver	4,432	156,481	776	34,609
Pigfish	1,190,673	301,906	448,404	119,332
Pinfish	1,016,021	1,079,719	151,153	167,331
Pompano, Florida	584,682	348,053	105,344	218,191
Porgies	5,287	10,195	8,994	18,917
Puffers	1,902,765	521,571	966,751	237,736
Seatrout, Spotted	1,963,400	1,223,508	3,756,040	2,241,421
Sharks	2,153	4,997	16,909	24,835
Sharks, Dogfishes	5,214	21,587	14,461	117,447
Sheepshead	387,924	324,540	1,024,623	928,130
Snappers	60,797	80,284	135,665	117,205
Spot	1,197,145	1,199,080	375,168	435,231
Tuna, Bluefin ²	35	29	9,018	11,258
Tuna, Yellowfin	38,924	49,158	1,450,166	1,365,679
Tunny, Little	38,772	17,096	234,922	118,784
Wahoo	9,657	9,760	232,436	244,048
Weakfish	112,095	91,032	105,060	103,449
¹ Striped Bass landings reflect	Atlantic Ocean catches only			

 Striped Bass landings reflect Atlantic Ocean catches only.

 Landings for Atlantic Bluefin Tuna reflect the Highly Migratory Species fishing year (January 1 through December 31).

NOTE: The number and pounds of finfish listed represent estimated harvest; finfish released alive are not included. Recreational finfish catches from head boats are not included in this table. The National Marine Fisheries Service collected head boat data separately in 2017.

Table III.2 North Carolina marine recreational finfish overall harvest and released finfish.

Year	Number Harvested	Pounds Harvested	Number Released
2022	21,414,768	21,258,305	77,102,244
2021	21,978,023	19,039,915	60,060,649
2020	18,954,501	24,915,542	53,523,311
2019	22,991,602	23,819,357	58,780,769
2018	16,167,035	20,064,976	62,467,785
2017	24,992,736	27,434,020	73,343,486
2016	29,612,819	28,782,892	79,311,111
2015	32,029,176	29,382,094	76,359,197
2014	35,266,582	26,160,399	79,350,225
2013	37,097,386	28,539,154	71,387,944
2012	24,849,139	24,382,691	59,475,261
2011	28,913,465	31,138,553	61,538,383
2010	28,339,722	28,827,120	66,210,770
2009	28,373,054	32,386,251	58,585,443
2008	24,399,920	24,230,177	51,181,826
2007	32,030,305	36,948,737	49,000,158
2006	32,644,303	35,932,215	54,354,928
2005	31,216,078	37,847,540	40,759,376
2004	29,896,721	39,832,941	40,866,383
2003	33,999,152	31,081,963	37,896,160
2002	33,091,963	31,317,369	40,029,463
2001	29,434,712	35,002,246	41,169,692
2000	22,583,867	29,606,819	37,480,759
1999	18,797,344	24,025,603	30,867,860
1998	21,495,066	20,632,560	27,618,324
1997	17,611,273	25,667,654	24,463,398
1996	17,648,228	21,388,190	21,126,385
1995	20,285,155	21,318,710	21,402,764
1994	27,207,985	22,721,036	26,574,243
1993	19,959,266	18,892,022	18,868,785
1992	22,047,490	20,659,018	23,975,805
1991	25,513,630	23,226,188	21,896,152
1990	30,547,188	28,083,671	17,794,105
1989	31,860,381	29,324,818	14,661,067
1988	32,122,713	10,851,835	18,927,988
1987	27,869,954	32,592,416	12,701,702
1986	32,471,202	36,719,837	13,379,969
1985	43,539,768	31,751,840	12,912,223
1984	29,159,941	31,647,052	10,715,507
1983	33,420,274	36,416,585	8,248,603
1982	24,255,664	17,222,968	7,843,562
1981	40,960,641	32,560,880	16,030,869
1001	+0,000,0 + 1	02,000,000	10,000,009

Table III.3 North Carolina marine recreational fishing trip estimates by mode (numbers).

Year	Beach/Bank	Charter Boat	Manmade	Private Boat	Total
2022	5,981,160	148,342	9,249,542	5,196,023	20,575,213
2021	5,397,877	158,800	7,905,354	4,482,582	17,944,614
2020	5,542,658	214,822	5,228,098	5,413,655	16,399,233
2019	6,711,048	160,692	6,021,580	4,646,520	17,539,840
2018	6,879,419	148,004	5,317,495	4,279,389	16,624,306
2017	7,745,619	149,438	9,512,489	5,044,731	22,452,276
2016	10,187,550	140,575	5,970,329	4,860,391	21,158,845
2015	6,699,488	114,043	8,516,390	4,992,920	20,322,840
2014	7,919,735	96,432	6,014,374	4,895,957	18,926,498
2013	6,028,869	111,366	7,097,673	4,847,955	18,085,862
2012	7,156,627	159,160	6,184,923	5,054,638	18,555,348
2011	8,086,490	129,380	6,040,312	5,212,669	19,468,850
2010	7,877,619	138,577	7,174,395	4,982,732	20,173,323
2009	7,751,222	129,412	6,642,257	4,822,295	19,345,187
2008	8,489,916	170,428	6,067,854	4,599,900	19,328,098
2007	6,183,367	185,618	7,105,305	4,671,856	18,146,146
2006	7,199,224	201,368	7,671,720	4,542,632	19,614,943
2005	5,206,759	214,826	7,369,215	4,359,576	17,150,375
2004	6,695,734	183,039	6,245,702	4,276,395	17,400,870
2003	5,353,909	131,566	6,243,796	3,746,771	15,476,042
2002	5,501,125	142,644	5,913,968	3,539,123	15,096,859
2001	5,479,658	160,791	6,105,185	3,363,853	15,109,488
2000	5,687,088	164,116	6,088,224	3,388,516	15,327,944
1999	4,215,059	200,350	5,113,589	3,153,794	12,682,792
1998	3,677,092	189,664	4,435,131	2,806,930	11,108,817
1997	3,618,411	242,043	4,552,528	2,742,087	11,155,069
1996	3,851,521	204,608	3,895,335	2,471,857	10,423,321
1995	3,643,176	167,321	3,958,161	2,222,995	9,991,653
1994	3,874,950	177,061	4,246,772	2,231,472	10,530,255
1993	4,404,924	117,536	4,105,818	2,233,903	10,862,180
1992	4,403,691	87,352	5,097,113	2,277,847	11,866,004
1991	4,497,351	81,065	4,406,694	2,240,961	11,226,071
1990	5,338,764	83,234	4,526,403	2,164,387	12,112,788
1989	4,485,729	94,199	3,955,450	2,137,255	10,672,633
1988	4,444,539	65,320	3,960,772	2,009,639	10,480,270
1987	4,566,175	89,642	2,510,303	1,867,135	9,033,255
1986	4,260,280	101,447	2,733,767	2,076,308	9,171,802
1985	3,569,600	226,397	3,323,582	1,753,973	8,873,553
1984	3,335,089	226,710	4,027,935	1,798,108	9,387,842
1983	4,057,922	248,825	4,219,017	1,746,350	10,272,113
1982	2,789,810	97,074	2,253,604	1,721,703	6,862,191
1981	2,827,938	100,461	2,498,407	1,332,324	6,759,130

Table III.4 North Carolina Coastal Recreational Fishing Licenses¹ issued by residency.

Year	In-State	Out-of-State	Total
2022	307,589	177,418	485,007
2021	320,943	192,732	513,675
2020	320,373	177,734	498,107
2019	301,847	156,759	458,606
2018	277,698	151,232	428,930
2017	305,422	164,149	469,571
2016	306,718	160,986	467,704
2015	314,557	166,287	480,844
2014	319,069	167,218	486,287
2013	316,514	163,486	480,000
2012	304,840	155,457	460,297
2011	287,914	151,332	439,246
2010	294,163	159,356	453,519
2009	281,471	153,617	435,088
2008	267,062	144,819	411,881
2007	314,569	154,952	469,521

¹All lifetime inland state fishing licenses sold prior to 2007 were grandfathered into the new CRFL requirement on January 01, 2007. Lifetime CRFLs are not included in this table.

Directed trips for major species in North Carolina by year. Table III.5

Voor	Amberjack, 0	Greater	Barracuda	, Great	Bass, Black	k Sea	Bass, Strip	ped ¹	Bluefis	h
Year -	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE
2022	13,562	33.90	7,318	21.50	1,213,898	16.50	116,610	89.10	3,051,267	9.10
2021	15,733	23.80	18,794	24.60	628,353	9.20	26,562	20.40	1,803,957	10.50
2020	13,621	22.50	19,861	24.00	484,702	9.20	3,323	57.30	1,801,185	8.30
2019	10,645	31.40	25,651	38.00	596,924	9.30	28,365	25.70	2,699,198	9.70
2018	18,103	36.40	21,941	32.20	481,773	10.60	28,388	41.70	3,031,288	10.40
2017	16,026	21.60	16,193	35.40	1,001,694	9.30	32,116	35.90	3,392,266	13.30
2016	35,587	27.90	10,188	35.20	928,834	12.10	158,610	45.70	3,194,322	8.80
2015	32,110	26.90	15,801	40.10	781,023	9.40	4,586	93.90	3,126,972	10.30
2014	11,311	34.80	5,961	39.40	815,832	8.30	134,105	81.00	2,871,661	6.50
2013	23,982	32.30	7,505	48.70	641,876	7.80	50,006	40.70	2,769,469	6.30
2012	18,101	21.20	7,125	24.90	888,824	5.10	126,230	28.30	2,355,827	4.50
2011	9,951	25.50	7,640	31.90	663,994	7.50	228,198	18.60	3,264,390	5.10
2010	24,796	41.40	10,976	23.40	478,332	7.50	180,151	19.90	3,027,076	4.70
2009	36,383	24.10	15,559	32.30	542,005	15.30	316,463	21.90	2,760,641	6.90
2008	34,312	27.50	21,258	27.70	331,107	12.00	604,391	19.90	3,026,633	6.40
2007	5,271	72.40	6,884	40.90	425,856	9.00	736,232	18.20	2,931,252	6.50
2006	10,889	50.10	6,711	34.80	552,372	9.30	846,769	24.60	2,470,361	7.10
2005	8,613	50.00	18,925	31.70	575,805	11.70	540,379	17.70	2,458,978	7.50
2004	7,860	34.80	10,565	40.70	392,504	10.10	884,229	12.50	2,112,219	6.70
2003	10,342	29.20	8,236	27.10	275,489	10.30	185,658	13.60	1,682,375	6.30
2002	11,290	24.10	12,916	21.20	301,959	12.30	351,816	13.50	2,087,495	5.60
2001	7,780	26.20	10,676	23.20	309,948	8.40	328,790	11.50	2,301,022	6.20
2000	11,144	40.80	3,586	37.90	340,630	10.50	320,439	12.70	2,001,714	7.10
1999	3,876	41.80	5,780	38.40	337,942	10.60	201,568	10.50	1,474,837	6.70
1998	6,087	33.00	7,301	28.90	326,235	10.40	418,479	8.10	1,277,127	5.70
1997	7,077	31.00	6,321	31.10	265,191	9.00	401,702	8.60	1,555,442	5.20
1996	15,233	20.30	11,842	31.30	173,616	9.90	287,069	10.30	1,161,814	5.10
1995	8,333	24.50	13,122	26.80	241,714	10.00	135,019	13.60	1,173,475	5.40
1994	15,226	28.30	10,705	21.00	364,233	9.20	100,767	14.40	1,519,347	5.00
1993	11,018	23.50	12,933	29.60	217,874	10.90	41,223	30.10	2,027,758	5.80
1992	8,064	25.40	7,817	28.60	226,789	13.00	18,165	46.40	2,346,495	8.50
1991	56,414	48.90	6,118	29.50	263,291	18.10	74,635	40.40	2,284,363	6.60
1990	12,660	27.40	12,276	36.20	252,632	14.70	-	-	3,481,179	8.20
1989	16,320	30.70	6,856	37.10	323,702	17.30	-	-	3,213,455	7.70
1988	7,635	30.30	14,908	68.10	280,766	18.50	1,265	100.00	1,786,336	11.60
1987	16,159	38.80	3,441	39.30	268,246	32.90	-	-	2,321,227	9.60
1986	24,415	38.80	268	54.10	124,027	23.90	-	-	2,121,061	18.40
1985	9,069	35.70	-	-	376,187	18.50	-	-	2,573,654	10.60
1984	3,073	100.00	8,197	100.00	252,290	30.50	284	-	3,480,359	12.90
1983	4,161	15.80	1,878	100.00	454,617	31.50	-	-	3,508,131	17.00
1982	412	100.00	-	-	234,874	41.00	-	-	1,628,351	12.10
1981	752	98.30	-	-	269,318	28.00	-	-	1,727,585	8.70
¹ Striped	d Bass landings r	eflect Atlan	itic Ocean cat	ches only.						

Table III.5 Directed trips for major species in North Carolina by year (continued).

Voor	Bonito, At	tlantic	Croaker, Atl	antic	Cobi	a	Dolphin		Drum, Bla	ck
Year -	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE
2022	42,155	33.20	2,096,344	9.30	185,183	17.80	82,203	15.70	552,130	19.90
2021	46,390	24.00	2,167,915	8.80	166,810	20.60	138,823	14.00	631,590	12.10
2020	24,858	40.70	1,045,317	14.80	309,191	29.70	125,263	13.00	470,616	9.60
2019	25,061	38.10	1,213,097	8.00	187,491	20.50	173,192	13.50	584,856	13.20
2018	18,257	28.00	1,093,754	8.80	294,837	16.90	245,040	13.30	773,315	14.30
2017	30,543	59.90	1,569,130	8.50	302,607	18.60	197,686	15.00	978,376	18.00
2016	15,679	33.80	1,542,439	9.60	349,360	15.30	282,195	14.40	927,876	17.10
2015	19,542	52.90	2,219,202	8.50	326,752	15.80	313,062	13.80	895,352	25.30
2014	28,278	31.90	1,924,556	7.60	244,098	16.40	172,691	20.20	564,678	18.00
2013	15,718	52.40	1,731,001	6.70	204,560	18.00	191,701	16.60	624,438	11.30
2012	14,514	27.30	1,250,115	5.60	154,376	12.20	222,284	10.70	573,675	9.30
2011	31,149	31.90	1,674,758	6.70	148,917	15.40	235,775	13.10	776,683	10.40
2010	9,984	33.20	1,470,467	7.60	187,077	11.00	221,856	21.00	535,406	10.40
2009	2,205	58.40	1,572,087	7.90	164,221	18.00	350,015	13.60	493,868	13.90
2008	13,758	47.00	1,157,184	8.70	61,094	21.50	172,004	11.10	742,385	11.00
2007	20,837	30.50	1,180,041	9.30	118,012	16.80	290,229	10.90	675,686	15.60
2006	5,845	40.50	1,789,975	10.40	193,578	17.60	235,063	12.60	348,977	14.30
2005	18,319	31.80	1,042,080	11.60	124,143	18.00	272,904	12.20	516,299	21.60
2004	31,923	42.00	1,120,097	13.50	97,748	16.80	198,813	13.30	392,042	15.90
2003	22,592	31.70	845,302	7.10	99,879	15.90	140,721	11.80	616,688	14.90
2002	18,446	55.80	724,894	10.90	106,282	19.10	156,100	9.90	456,367	12.90
2001	12,664	43.70	846,118	9.80	74,602	19.60	123,279	10.10	295,179	16.60
2000	6,665	40.70	1,055,737	7.50	62,698	20.50	177,393	11.40	240,526	13.20
1999	8,070	38.40	889,129	7.60	49,309	23.20	122,660	10.40	331,070	10.60
1998	15,700	42.10	751,538	7.00	41,978	16.60	77,099	9.00	126,968	13.30
1997	30,651	37.20	713,407	7.00	77,757	15.80	137,464	8.40	114,109	13.60
1996	4,685	35.80	816,678	6.20	54,930	15.40	97,631	11.80	316,253	13.90
1995	9,535	29.00	870,643	6.20	100,572	18.00	135,226	7.70	324,720	12.80
1994	17,210	33.20	1,112,262	6.30	80,223	14.90	158,189	12.00	91,207	24.70
1993	16,241	54.70	842,458	8.30	45,510	21.60	126,273	12.10	70,018	21.00
1992	10,521	28.30	992,747	9.70	65,703	18.70	66,367	10.30	54,890	41.50
1991	13,448	29.10	801,289	10.20	80,530	19.70	103,066	12.40	27,941	30.80
1990	11,975	29.20	929,210	12.00	65,450	31.10	59,901	12.10	12,504	45.50
1989	16,780	29.60	1,193,791	8.80	51,379	31.10	89,052	14.90	1,498	61.70
1988	39,833	72.50	897,527	23.50	18,513	28.70	54,797	55.50	16,764	36.00
1987	4,739	36.00	584,488	17.30	42,484	26.70	50,311	21.70	62,899	39.20
1986	368	100.00	472,694		133,472	32.20	39,528	9.30	48,258	
1985	1,555	100.00	719,467		104,499	48.70	43,556		46,425	59.60
1984	6,557	100.00	1,137,932		51,144	64.30	12,954	57.80	-	-
1983	-	-	704,418	19.20	9,464	100.00	20,697	47.10	-	-
1982	11,272	41.00	432,806	17.30	24,803	61.80	18,613	71.70	16,880	68.20
1981	4,147	100.00	450,765	19.50	15,293	89.60	8,834	37.60	-	-
1 Striped	l Bass landing	s reflect Atl	antic Ocean cate	ches only	1					

Directed trips for major species in North Carolina by year (continued). Table III.5

Voor	Drum, Re	ed	Flounde	r	Gag		Groupe	ers	Grui	nts
Year	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE
2022	3,549,392	7.60	1,671,608	7.90	42,060	26.10	49,771	22.90	53,059	26.20
2021	3,120,360	6.70	1,671,608	7.90	24,565	21.20	34,072	17.90	53,711	25.90
2020	3,235,205	8.70	1,675,588	13.30	2,792	70.70	37,968	21.60	22,779	22.30
2019	2,687,752	9.90	1,828,756	7.90	5,897	51.10	16,005	29.90	27,931	29.20
2018	3,478,377	13.80	1,710,890	7.30	1,703	49.50	6,475	28.10	20,808	41.20
2017	3,675,064	12.60	2,107,301	6.90	13,584	34.30	20,781	28.50	33,219	30.40
2016	3,693,885	11.90	2,420,326	6.20	25,335	34.90	37,721	29.10	47,810	44.40
2015	2,762,521	18.20	2,536,854	7.30	39,780	23.20	54,148	18.90	36,039	30.30
2014	2,995,433	9.00	2,685,072	6.10	22,148	37.30	37,348	28.00	16,808	37.70
2013	2,542,714	6.40	2,623,195	5.70	20,687	21.50	30,365	17.30	20,830	22.20
2012	2,557,094	4.90	2,552,146	3.80	45,908	25.50	64,985	19.40	29,517	19.60
2011	1,089,325	6.70	2,519,959	4.50	18,088	29.90	29,448	23.00	28,930	24.50
2010	1,755,179	7.00	2,900,583	4.00	22,767	22.80	44,583	17.20	24,308	24.60
2009	1,702,448	15.60	2,577,363	5.90	31,297	28.50	66,797	19.50	43,402	26.20
2008	1,491,162	14.20	2,405,131	5.30	41,495	23.10	70,685	16.10	23,929	25.20
2007	1,053,326	8.70	2,221,405	6.10	56,882	33.30	83,941	23.80	33,788	19.50
2006	916,020	8.90	2,379,590	7.90	24,216	26.30	40,651	21.20	32,203	27.10
2005	706,486	8.70	1,911,063	7.40	20,872	27.20	37,640	21.80	35,511	23.50
2004	522,126	9.60	2,078,666	5.30	27,153	27.40	33,386	23.20	30,995	25.00
2003	476,674	9.20	1,729,028	5.30	9,157	40.80	12,093	32.30	22,700	27.90
2002	902,697	8.40	1,958,411	5.30	10,398	43.80	12,477	37.30	15,726	26.30
2001	536,851	8.90	1,861,792	4.80	6,184	29.70	13,175	27.40	11,484	22.90
2000	711,051	7.60	2,121,537	5.30	4,161	59.80	10,723	46.60	12,243	46.30
1999	662,625	7.70	1,158,885	5.60	3,461	47.00	8,209	33.10	8,805	28.30
1998	521,028	8.40	1,428,756	5.10	9,169	41.00	13,725	33.80	13,161	31.50
1997	314,360	8.40	1,426,854	4.70	7,584	41.60	8,818	35.40	11,874	28.70
1996	364,726	9.90	1,126,979	4.90	9,485	49.70	14,768	35.80	16,037	28.20
1995	674,269	7.30	1,230,301	5.10	17,986	23.30	25,804	19.20	23,491	21.20
1994	621,918	8.20	1,834,545	4.60	19,431	31.40	49,759	21.60	70,363	14.80
1993	906,950	7.80	1,745,979	5.40	17,374	31.20	33,570	21.70	45,317	19.60
1992	716,307	12.80	1,597,931	6.30	9,518	28.80	18,182	23.30	31,180	18.50
1991	661,450	12.20	1,596,897	6.60	27,286	42.50	38,871	31.40	31,333	22.00
1990	538,581	19.10	1,531,247	9.60	27,696	30.20	60,090	32.30	49,428	43.90
1989	915,055	13.70	1,033,473	10.00	21,250	30.50	34,056	22.30	30,682	21.40
1988	409,391	35.00	1,359,163	18.20	12,490	27.00	19,914	21.50	22,183	19.80
1987	681,645	23.90	1,090,007	16.00	7,469	60.40	12,655	38.20	14,085	26.10
1986	216,931		1,204,201	13.80	1,302	100.00	1,651	81.60	350	100.00
1985	398,397	28.10	1,799,421	13.70	15,641	44.60	21,132	37.10	2,392	67.40
1984	513,880	23.20	1,807,897	15.60	25,313	40.70	25,412	40.60	67,464	30.00
1983	775,248	18.40	1,678,640	15.10	-	-	8,984	100.00	41,734	100.00
1982	181,019	34.30	1,412,465	11.30	11,172	70.90	12,343	64.70	521	100.00
1981	103,166	36.30	1,052,629	14.10	22,562	89.80	22,571	89.70	34,118	64.40
¹ Stripe	d Bass landings	reflect At	lantic Ocean cat	ches only	1.					

Table III.5 Directed trips for major species in North Carolina by year (continued).

Trips	Voca	Jacks		Kingfish		Mackerel, ł	King	Mackerel, Sp	anish	Pigfish	
2021 61,399 34,60 2,416,564 10.80 460,692 12.00 1,303,075 10.20 521,758 13.80 2020 88,836 24,70 1,771,176 12.50 490,789 12.50 1,042,729 9.40 245,524 13.80 2018 82,919 25.30 2,208,088 10.50 384,858 12.10 1,320,690 11.10 441,44 12.40 2017 120,189 39.10 2,361,137 10.70 409,587 12.70 1,052,568 13.00 676,968 15.30 2016 217,866 18.40 2,741,476 12.00 271,754 14.30 984,307 10.20 848,240 10.80 2014 118,156 27.90 2,538,697 9.80 375,929 13.00 1,073,559 8.50 902,261 10.30 2013 104,820 19.10 2,910,094 6.00 320,144 12.70 781,315 7.80 774,941 6.00 2011 137,269	rear -	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE
2020 88,836 24.70 1,771,176 12.50 490,789 12.50 1,042,729 9.40 245,524 13.60 2019 82,919 25.30 2,208,088 10.50 384,858 12.10 1,320,690 11.10 461,144 12.40 2017 120,188 39.10 2,361,137 10.70 409,587 12.70 1,065,266 13.60 676,968 15.30 2016 217,866 18.40 2,741,476 12.00 271,754 14.30 984,307 10.20 848,240 10.80 2015 204,853 26.70 2,538,697 9.80 375,929 13.00 1,073,559 8.50 990,281 10.80 2013 104,820 19.10 2,910,994 6.00 320,144 12.70 731,315 7.80 719,546 10.90 2012 137,269 21.60 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 150,491 <	2022	78,899	26.50	2,358,778	10.80	504,070	15.20	1,614,173	10.00	831,152	14.20
2019 82,919 25,30 2,208,088 10,50 384,858 12,10 1,320,690 11,10 481,144 12,40 2017 120,189 39,10 2,361,137 10,70 409,587 12,70 1,065,266 13,60 676,968 15,30 2016 217,866 18,40 2,741,476 12,00 271,754 14.30 984,307 10,20 848,240 10,80 2014 118,156 27,90 2,538,697 9,80 375,929 13,00 1,073,659 8.50 902,261 10,30 2013 104,820 19,10 2,910,094 6.00 320,144 12.70 781,315 7.80 719,566 10.90 2012 137,269 2160 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 130,946 17.50 2,005,965 6.20 259,299 12.80 875,873 8.40 664,320 8.44 8.60 36,30 74,713 <t< td=""><td>2021</td><td>61,399</td><td>34.60</td><td>2,416,564</td><td>10.80</td><td>460,692</td><td>12.00</td><td>1,303,075</td><td>10.20</td><td>521,758</td><td>13.80</td></t<>	2021	61,399	34.60	2,416,564	10.80	460,692	12.00	1,303,075	10.20	521,758	13.80
2018 74,771 21.90 1,660,341 12.10 417,690 14.90 1,072,569 10.00 492,024 10.90 2017 120,189 39.10 2,361,137 10.70 409,587 12.70 1,065,266 13.60 676,998 15.30 2016 217,866 18.40 2,741,476 12.00 271,754 14.30 984,307 10.20 848,240 10.80 2014 118,156 27.90 2,538,697 9.80 375,929 13.00 1,073,559 8.50 798,66 10.30 2013 104,820 19.10 2,916,009 6.00 320,144 12.70 781,315 7.80 719,566 10.90 2012 137,269 21.60 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 55,491 26.80 261,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2009 45,042 32.90<	2020	88,836	24.70	1,771,176	12.50	490,789	12.50	1,042,729	9.40	245,524	13.60
2017 120,189 39,10 2,361,137 10,70 409,587 12,70 1,065,266 13,60 676,988 15,30 2016 217,866 18,40 2,741,476 12,00 271,754 14,30 984,307 10,20 484,240 10,80 2014 218,683 26,70 2,842,692 12,10 390,806 11,30 984,307 10,20 985,857 9.80 2014 118,166 27.90 2,538,697 9.80 375,929 13,00 1,073,559 8.50 902,261 10,30 2012 137,269 2,160 2,443,663 5.10 325,194 10,40 832,918 6.30 743,921 6.40 2010 55,491 26.80 2,614,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2009 46,004 32.00 2,421,670 7.50 501,252 10,40 953,259 10,70 626,307 1.75 2007 37,127 2790 </td <td>2019</td> <td>82,919</td> <td>25.30</td> <td>2,208,088</td> <td>10.50</td> <td>384,858</td> <td>12.10</td> <td>1,320,690</td> <td>11.10</td> <td>461,144</td> <td>12.40</td>	2019	82,919	25.30	2,208,088	10.50	384,858	12.10	1,320,690	11.10	461,144	12.40
2016 217,866 18.40 2,741,476 12.00 271,754 14.30 984,307 10.20 848,240 10.80 2014 118,156 27.90 2,588,697 9.80 375,929 13.00 1,073,559 8.50 992,261 10.30 2013 104,820 19.10 2,910,094 6.00 320,144 12.70 781,315 7.80 719,546 10.90 2012 137,269 21.60 2,443,663 5.10 325,194 10.40 382,918 6.30 743,921 6.40 2010 55,491 26.80 2,614,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2008 46,004 32.00 2,421,670 7.50 501,252 10.40 832,599 10.70 626,307 11.70 2008 156,608 35.50 1,742,848 8.50 340,646 10.70 721,131 7.70 700,737 16.20 2007 37,127 22.90	2018	74,771	21.90	1,660,341	12.10	417,690	14.90	1,072,569	10.00	492,024	10.90
2015 204,853 26.70 2,842,692 12.10 390,806 11.30 915,635 8.20 985,857 9.80 2014 118,156 27.90 2,538,697 9.80 375,929 13.00 1,073,559 8.50 902,261 10.30 2012 137,269 21.60 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 130,946 17.50 2,005,965 6.20 259,299 12.80 875,873 8.40 864,320 8.40 2010 55,491 26.80 2,614,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2009 46,004 32.00 2,421,670 7.50 501,252 10.40 953,259 10.70 626,307 11.70 2007 37,127 22.90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 29,933 33.70	2017	120,189	39.10	2,361,137	10.70	409,587	12.70	1,065,266	13.60	676,968	15.30
2014 118,156 27.90 2,538,697 9.80 375,929 13.00 1,073,559 8.50 902,261 10.30 2013 104,820 19.10 2,910,094 6.00 320,144 12.70 781,315 7.80 719,546 10.90 2011 137,269 2160 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 130,946 17.50 2,005,965 6.20 259,299 12.80 875,873 8.40 864,320 8.40 2009 46,004 32.00 2,421,670 7.50 501,252 10.40 953,259 10.70 626,307 11.70 2008 156,608 35.50 1,742,848 8.50 340,646 10.70 721,131 7.70 700,737 16.20 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2005 49,323 23.30	2016	217,866	18.40	2,741,476	12.00	271,754	14.30	984,307	10.20	848,240	10.80
2013 104,820 19.10 2,910,094 6.00 320,144 12.70 781,315 7.80 719,546 10.90 2012 137,269 21.60 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 130,946 17.50 2,005,965 6.20 259,299 12.80 875,873 8.40 864,320 8.40 2009 46,004 32.00 2,421,670 7.50 501,252 10.40 953,259 10.70 626,307 11.70 2008 156,608 35.50 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,600 16.70 738,709 12.50 2003 41,369 341,348	2015	204,853	26.70		12.10	390,806	11.30	915,635	8.20	985,857	9.80
2012 137,269 21.60 2,443,663 5.10 325,194 10.40 832,918 6.30 743,921 6.40 2011 130,946 17.50 2,005,965 6.20 259,299 12.80 875,873 8.40 864,320 8.40 2010 55,491 26.80 2,614,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2009 46,004 32.00 2,421,670 7.50 501,252 10.40 953,259 10.70 626,307 11.70 2007 37,127 22.90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2005 49,323 23.30 1,605,005 9.40 385,324 10.90 693,660 16.70 738,709 12.50 2003 41,358 34.01	2014	118,156	27.90	2,538,697	9.80	375,929	13.00	1,073,559	8.50	902,261	10.30
2011 130,946 17.50 2,005,965 6.20 259,299 12.80 875,873 8.40 864,320 8.40 2010 55,491 26.80 2,614,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2008 156,608 35.50 1,742,848 8.50 340,646 10.70 721,131 7.70 700,737 16.20 2007 37,127 22.90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2004 14,489 31.10 1,544,531 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2002 41,353 24.10	2013	104,820	19.10	2,910,094	6.00	320,144	12.70	781,315	7.80	719,546	10.90
2010 55,491 26.80 2,614,698 5.80 287,082 9.70 858,946 8.00 728,441 7.50 2009 46,004 32.00 2,421,670 7.50 501,252 10.40 953,259 10.70 626,307 11.70 2008 156,608 35.50 1,742,848 8.50 340,646 10.70 721,131 7.70 700,737 16.20 2007 37,127 22.90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2001 27,930 47.10	2012	137,269	21.60	2,443,663	5.10	325,194	10.40	832,918	6.30	743,921	6.40
2009 46,004 32.00 2,421,670 7.50 501,252 10.40 953,259 10.70 626,307 11.70 2008 156,608 35.50 1,742,848 8.50 340,646 10.70 721,131 7.70 700,737 16.20 2007 37,127 22.90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2005 49,323 23.30 1,260,798 11.00 464,675 8.70 562,428 11.90 632,464 23.40 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2003 41,353 24.10 1,044,631 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10		130,946	17.50	2,005,965	6.20	259,299	12.80	875,873	8.40	864,320	8.40
2008 156,608 35.50 1,742,848 8.50 340,646 10.70 721,131 7.70 700,737 16.20 2007 37,127 22,90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2003 41,348 46.70 1,044,531 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,4287 11.10 596,590 12.10 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10	2010	55,491	26.80	2,614,698	5.80	287,082	9.70	858,946	8.00	728,441	7.50
2007 37,127 22.90 1,791,749 8.10 475,140 9.20 583,273 9.20 591,424 14.40 2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2005 49,323 23.30 1,260,798 11.00 464,675 8.70 562,228 11.90 632,464 23.40 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2003 41,348 46.70 1,044,531 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 290,057 55.10 1,310,049 <td>2009</td> <td>46,004</td> <td>32.00</td> <td>2,421,670</td> <td>7.50</td> <td>501,252</td> <td>10.40</td> <td>953,259</td> <td>10.70</td> <td>626,307</td> <td>11.70</td>	2009	46,004	32.00	2,421,670	7.50	501,252	10.40	953,259	10.70	626,307	11.70
2006 22,983 33.70 1,605,005 9.40 386,012 12.50 592,208 11.10 443,494 15.00 2005 49,323 23.30 1,260,798 11.00 464,675 8.70 562,428 11.90 632,464 23.40 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10 1,310,049 9.10 296,502 11.70 668,735 12.50 651,697 9.80 1999 22,995 31.20 719,508 8.50 199,413 14.70 361,670 10.90 645,455 8.60 1997 63,352 25.30		156,608				340,646					16.20
2005 49,323 23.30 1,260,798 11.00 464,675 8.70 562,428 11.90 632,464 23.40 2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2003 41,348 46.70 1,044,531 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10 1,310,049 9.10 296,502 11.70 668,735 12.50 651,759 9.80 1999 22,995 31.20 719,508 8.50 190,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60	2007	37,127	22.90	1,791,749	8.10	475,140	9.20	583,273	9.20	591,424	14.40
2004 14,489 31.10 1,513,388 9.60 395,324 10.90 693,660 16.70 738,709 12.50 2003 41,348 46.70 1,044,531 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2000 29,057 55.10 1,310,049 9.10 296,502 11.70 668,735 12.50 661,759 9.80 1999 22,995 31.20 719,508 8.50 190,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 6	2006		33.70	1,605,005	9.40		12.50	592,208			15.00
2003 41,348 46.70 1,044,531 8.60 283,193 8.30 557,305 11.40 834,218 10.50 2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10 1,310,049 9.10 296,502 11.70 668,735 12.50 651,759 9.80 1999 22,995 31.20 719,508 8.50 190,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 69	2005	49,323	23.30	1,260,798	11.00	464,675	8.70	562,428	11.90	632,464	23.40
2002 41,353 24.10 843,478 10.90 353,673 12.50 652,877 11.10 596,590 12.10 2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10 1,310,049 9.10 296,502 11.70 668,735 12.50 651,759 9.80 1999 22,995 31.20 719,508 8.50 199,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1994 13,088 24.30 1,027	2004	14,489	31.10	1,513,388	9.60		10.90	693,660	16.70	738,709	12.50
2001 27,930 47.10 1,046,464 8.50 317,006 9.40 573,249 12.40 557,787 10.60 2000 29,057 55.10 1,310,049 9.10 296,502 11.70 668,735 12.50 651,759 9.80 1999 22,995 31.20 719,508 8.50 190,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 662,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407	2003	41,348	46.70		8.60	283,193		557,305	11.40	834,218	10.50
2000 29,057 55.10 1,310,049 9.10 299,502 11.70 668,735 12.50 651,759 9.80 1999 22,995 31.20 719,508 8.50 190,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 <td></td> <td></td> <td></td> <td>843,478</td> <td></td> <td></td> <td></td> <td></td> <td>11.10</td> <td></td> <td>12.10</td>				843,478					11.10		12.10
1999 22,995 31.20 719,508 8.50 190,705 11.50 490,881 10.70 651,697 9.60 1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809	2001	27,930		1,046,464	8.50	317,006	9.40	573,249	12.40	557,787	10.60
1998 15,315 33.60 653,069 8.50 195,413 14.70 361,670 10.90 645,435 8.60 1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637	2000	29,057	55.10	1,310,049	9.10	296,502	11.70	668,735	12.50	651,759	9.80
1997 63,352 25.30 622,487 7.10 256,783 8.40 553,133 7.90 730,699 7.40 1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637 11.20 413,152 7.60 718,947 6.30 444,929 14.30 1989 65,613 49.60 558,414	1999	22,995	31.20	719,508		190,705	11.50	490,881		651,697	9.60
1996 14,258 37.80 699,179 8.40 223,974 10.20 398,041 8.60 738,252 7.40 1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637 11.20 413,152 7.60 718,947 6.30 444,929 14.30 1990 78,219 54.80 1,008,142 13.80 418,747 11.90 702,445 10.90 487,082 20.10 1989 65,613 49.60 558,41	1998	15,315	33.60	653,069	8.50	195,413	14.70	361,670	10.90	645,435	8.60
1995 23,208 24.00 783,545 7.20 356,003 7.80 390,306 7.80 588,935 8.20 1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637 11.20 413,152 7.60 718,947 6.30 444,929 14.30 1990 78,219 54.80 1,008,142 13.80 418,747 11.90 702,445 10.90 487,082 20.10 1989 65,613 49.60 558,414 14.80 394,667 11.60 784,182 14.50 666,410 12.60 1987 55,371 34.70 688	1997	63,352	25.30	622,487	7.10	256,783	8.40	553,133	7.90	730,699	7.40
1994 13,088 24.30 1,027,407 7.90 385,404 8.70 569,538 7.30 591,972 8.70 1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637 11.20 413,152 7.60 718,947 6.30 444,929 14.30 1990 78,219 54.80 1,008,142 13.80 418,747 11.90 702,445 10.90 487,082 20.10 1989 65,613 49.60 558,414 14.80 394,667 11.60 784,182 14.50 666,410 12.60 1988 73,835 80.40 1,109,114 17.30 248,979 14.80 301,053 10.60 659,073 15.60 1987 55,371 34.70 688,396 18.40 371,986 14.20 360,764 13.00 643,854				699,179			10.20	398,041		738,252	
1993 68,709 26.70 871,255 10.00 362,612 8.50 624,360 8.60 494,231 9.80 1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637 11.20 413,152 7.60 718,947 6.30 444,929 14.30 1990 78,219 54.80 1,008,142 13.80 418,747 11.90 702,445 10.90 487,082 20.10 1989 65,613 49.60 558,414 14.80 394,667 11.60 784,182 14.50 666,410 12.60 1988 73,835 80.40 1,109,114 17.30 248,979 14.80 301,053 10.60 659,073 15.60 1987 55,371 34.70 688,396 18.40 371,986 14.20 360,764 13.00 643,854 23.70 1986 231,679 27.60 721,770 40.50 333,622 31.10 601,408 33.20 297,118				783,545		356,003		390,306		588,935	
1992 36,892 40.70 987,809 16.30 355,767 8.00 750,273 8.90 581,256 12.50 1991 36,436 23.10 1,073,637 11.20 413,152 7.60 718,947 6.30 444,929 14.30 1990 78,219 54.80 1,008,142 13.80 418,747 11.90 702,445 10.90 487,082 20.10 1989 65,613 49.60 558,414 14.80 394,667 11.60 784,182 14.50 666,410 12.60 1988 73,835 80.40 1,109,114 17.30 248,979 14.80 301,053 10.60 659,073 15.60 1987 55,371 34.70 688,396 18.40 371,986 14.20 360,764 13.00 643,854 23.70 1986 231,679 27.60 721,770 40.50 333,622 31.10 601,408 33.20 297,118 24.30 1985 51,813 39.90 419,946 17.30 377,973 24.50 151,263 28.20 460,697 <td></td>											
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1990 78,219 54.80 1,008,142 13.80 418,747 11.90 702,445 10.90 487,082 20.10 1989 65,613 49.60 558,414 14.80 394,667 11.60 784,182 14.50 666,410 12.60 1988 73,835 80.40 1,109,114 17.30 248,979 14.80 301,053 10.60 659,073 15.60 1987 55,371 34.70 688,396 18.40 371,986 14.20 360,764 13.00 643,854 23.70 1986 231,679 27.60 721,770 40.50 333,622 31.10 601,408 33.20 297,118 24.30 1985 51,813 39.90 419,946 17.30 377,973 24.50 151,263 28.20 460,697 20.20 1984 64,734 55.10 542,411 20.80 231,800 23.70 153,734 37.00 581,449 30.80 1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 <td></td>											
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1988 73,835 80.40 1,109,114 17.30 248,979 14.80 301,053 10.60 659,073 15.60 1987 55,371 34.70 688,396 18.40 371,986 14.20 360,764 13.00 643,854 23.70 1986 231,679 27.60 721,770 40.50 333,622 31.10 601,408 33.20 297,118 24.30 1985 51,813 39.90 419,946 17.30 377,973 24.50 151,263 28.20 460,697 20.20 1984 64,734 55.10 542,411 20.80 231,800 23.70 153,734 37.00 581,449 30.80 1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 23.50 1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20											
1987 55,371 34.70 688,396 18.40 371,986 14.20 360,764 13.00 643,854 23.70 1986 231,679 27.60 721,770 40.50 333,622 31.10 601,408 33.20 297,118 24.30 1985 51,813 39.90 419,946 17.30 377,973 24.50 151,263 28.20 460,697 20.20 1984 64,734 55.10 542,411 20.80 231,800 23.70 153,734 37.00 581,449 30.80 1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 23.50 1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20				•	14.80		11.60		14.50		
1986 231,679 27.60 721,770 40.50 333,622 31.10 601,408 33.20 297,118 24.30 1985 51,813 39.90 419,946 17.30 377,973 24.50 151,263 28.20 460,697 20.20 1984 64,734 55.10 542,411 20.80 231,800 23.70 153,734 37.00 581,449 30.80 1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 23.50 1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20											
1985 51,813 39.90 419,946 17.30 377,973 24.50 151,263 28.20 460,697 20.20 1984 64,734 55.10 542,411 20.80 231,800 23.70 153,734 37.00 581,449 30.80 1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 23.50 1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20	1987	55,371	34.70								
1984 64,734 55.10 542,411 20.80 231,800 23.70 153,734 37.00 581,449 30.80 1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 23.50 1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20											
1983 15,449 43.00 476,653 25.80 291,067 24.30 39,648 81.40 589,457 23.50 1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20											
1982 23,770 49.70 563,925 19.40 202,767 15.90 146,127 26.60 363,663 43.20											
4004 40 400 04 70											
1981 48,433 34.70 508,287 42.50 148,966 14.80 93,494 30.90 466,924 49.80 Striped Bass landings reflect Atlantic Ocean catches only.	1981			•		148,966	14.80	93,494	30.90	466,924	49.80

Directed trips for major species in North Carolina by year (continued). Table III.5

Year	Pompano, F	lorida	Porgies		Puffers		Seatrout, Sp	otted	Sharks	
real	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE
2022	538,958	21.70	8,110	49.10	1,333,232	11.60	3,484,759	8.70	659,421	20.50
2021	654,386	18.20	26,673	32.70	747,407	10.50	2,778,386	6.70	600,990	10.30
2020	492,896	28.60	4,901	39.10	517,301	15.80	2,365,291	5.20	365,434	15.40
2019	688,384	17.80	15,841	37.40	1,280,586	13.20	2,867,512	6.50	511,794	13.10
2018	631,684	15.10	5,225	42.80	490,330	28.40	1,606,853	10.90	666,385	14.70
2017	713,133	17.90	40,115	39.50	812,904	11.80	2,851,053	11.90	884,258	10.80
2016	637,011	18.00	37,693	55.10	1,427,536	14.80	2,322,627	7.50	710,368	10.60
2015	782,738	17.60	34,494	37.60	1,770,078	19.50	2,537,677	7.10	756,270	10.50
2014	670,968	15.10	16,996	48.90	395,524	16.80	2,154,879	8.10	1,019,887	9.20
2013	1,011,337	12.90	15,630	25.50	576,049	11.30	2,233,881	6.60	1,196,233	7.30
2012	799,938	8.70	25,548	20.30	1,261,061	7.00	2,365,291	5.20	747,153	7.80
2011	941,780	10.50	10,658	34.50	872,144	10.30	1,689,106	5.70	900,423	8.50
2010	661,895	10.00	11,989	30.40	839,916	13.20	1,716,486	7.30	1,166,218	7.30
2009	571,454	11.50	23,759	28.80	360,375	14.60	1,873,557	8.50	946,103	10.70
2008	475,820	13.00	26,882	26.90	562,782	15.80	1,444,238	11.20	1,542,448	16.40
2007	443,393	14.60	21,491	23.20	317,421	35.40	1,116,323	8.80	922,787	13.80
2006	507,279	25.50	11,129	37.00	287,797	23.70	1,077,306	9.10	700,664	12.50
2005	489,171	19.10	27,794	24.90	339,008	26.20	967,636	13.30	770,996	12.80
2004	646,943	17.10	112,539	38.30	413,765	13.30	537,440	8.80	555,017	12.10
2003	480,255	17.40	11,038	31.30	507,955	18.20	400,109	12.00	390,571	11.10
2002	314,426	20.60	8,557	28.30	538,354	14.90	548,358	17.20	346,327	13.60
2001	348,006	17.30	11,777	26.20	543,238	9.90	374,519	11.40	349,263	9.50
2000	416,598	19.50	29,190	45.10	513,484	10.30	534,790	13.50	227,924	18.10
1999	196,917	14.00	7,823	38.10	418,583	12.00	615,015	9.90	143,802	15.50
1998	190,193	13.00	12,108	32.70	178,079	13.20	461,677	10.00	145,660	14.80
1997	171,752	11.80	19,903	23.20	298,694	12.10	545,032	10.40	113,808	12.80
1996	187,919	14.60	12,181	30.90	384,447	12.60	530,593	10.70	119,383	15.20
1995	227,195	13.70	22,499	19.70	225,761	12.40	760,843	7.80	114,017	14.30
1994	213,126	11.70	70,481	19.90	375,140	10.00	728,875	9.60	152,028	12.10
1993	408,236	13.30	33,920	21.30	439,314	14.30	676,541	10.50	111,593	16.80
1992	219,503	21.80	30,629	19.00	1,053,038	14.20	874,396	11.00	148,656	34.50
1991	348,669	12.70	44,751	18.00	353,515	13.80	838,924	9.60	145,234	13.10
1990	652,897	22.70	58,652	37.00	498,454	19.10	638,272	10.10	61,378	26.50
1989	364,538	24.90	38,329	26.00	500,525	16.50	979,095	14.00	134,702	15.70
1988	111,867	28.00	32,995	20.00	422,304	23.50	489,668	16.40	203,031	27.60
1987	343,262	30.20	20,878	23.00	227,546	40.40	1,078,367	18.80	157,013	27.00
1986	287,193	11.70	9,137	61.80		43.90	709,774	11.30	75,662	46.70
1985	349,226	28.40	22,099	67.70	140,717	35.90	728,712	20.40	123,994	26.80
1984	288,244	30.80	78,651	28.20	118,171	50.40	584,669	24.60	40,428	39.60
1983	145,619	67.80	138,433	53.20	88,165	40.90	512,877	24.70	142,888	48.70
1982	130,581	23.00	66,862	62.00	237,109	56.50	444,128	23.60	37,163	38.90
1981	140,295	39.90	27,359	75.10	62,083	35.90	486,814	15.20	105,716	45.50
			lantic Ocean cat				,-		, -	

Table III.5 Directed trips for major species in North Carolina by year (continued).

Voca	Sharks, Dog	gfishes	Sheepshe	ad	Snapp	ers	Spot		Tuna, Yell	owfin
Year	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE	Trips	PSE
2022	28,542	38.50	670,829	19.20	38,249	26.40	1,185,012	11.70	42,658	28.00
2021	63,563	48.80	582,413	16.40	53,264	25.80	1,118,836	10.80	48,775	18.00
2020	59,681	11.50	295,566	12.00	29,624	20.40	798,337	11.10	59,761	23.90
2019	175,593	43.80	311,630	14.30	23,442	30.90	1,062,156	10.10	48,751	23.30
2018	82,102	33.70	350,785	14.20	6,474	36.40	948,789	10.10	54,138	27.00
2017	64,930	32.60	486,805	16.00	39,089	39.10	1,333,257	12.60	89,469	17.00
2016	150,573	29.40	266,617	17.90	29,989	58.10	892,716	11.00	120,076	20.10
2015	178,189	39.60	321,035	14.60	21,563	45.00	1,788,190	10.70	40,563	25.30
2014	235,315	28.50	255,414	17.00	15,585	43.30	2,125,494	8.60	42,991	22.20
2013	257,897	36.90	371,139	10.50	6,860	31.80	2,385,900	7.10	45,804	26.70
2012	84,192	22.20	405,546	8.80	22,615	22.70	1,636,385	5.90	52,846	20.00
2011	225,852	18.30	308,075	12.50	9,117	33.60	2,343,254	7.30	45,558	28.50
2010	149,586	16.50	285,820	12.90	9,729	24.80	1,978,044	7.00	38,146	27.30
2009	59,569	39.70	317,796	13.70	21,756	28.70	2,334,320	7.60	63,104	48.70
2008	273,811	47.60	281,738	13.70	22,634	31.70	1,860,288	8.50	32,264	23.00
2007	105,601	29.90	340,505	19.90	13,744	27.50	1,920,093	10.60	155,576	15.50
2006	79,737	28.60	215,691	23.60	5,630	41.20	3,190,948	11.50	163,653	15.30
2005	159,265	56.10	147,013	19.20	18,910	28.60	2,504,785	12.40	154,860	17.30
2004	320,230	16.80	160,973	25.80	18,795	29.70	2,308,073	8.30	138,284	17.40
2003	44,501	38.10	210,037	11.80	6,257	44.50	2,096,846	8.60	105,434	13.00
2002	63,077	29.60	174,010	13.10	9,934	34.30	1,575,172	10.90	115,054	26.60
2001	97,601	22.50	169,511	13.70	10,556	33.40	1,873,118	9.90	106,870	10.80
2000	50,092	24.20	243,234	15.20	4,230	37.70	1,565,541	8.40	97,501	10.20
1999	29,834	35.80	176,898	12.70	7,356	34.10	1,418,188	8.20	100,951	8.10
1998	29,574	39.10	122,528	15.90	3,772	53.50	1,551,639	8.50	57,984	7.40
1997	20,978	26.20	112,257	16.60	14,520	27.50	1,155,445	6.70	105,601	12.80
1996	32,907	22.10	66,671	15.20	15,439	34.80	1,621,884	6.60	123,884	14.30
1995	50,972	23.30	112,359	12.70	23,673	19.70	1,428,803	6.30	67,313	10.20
1994	51,154	17.20	126,838	14.40	31,616	22.00	1,912,005	6.70	76,311	10.40
1993	39,754	24.40	164,875	17.70	17,726	25.80	1,687,428	7.40	44,841	9.70
1992	181,964	23.80	139,232	21.60	17,846	19.80	1,766,448	10.80	36,731	16.00
1991	153,145	20.10	102,231	14.70	17,883	22.90	2,128,269	8.30	38,878	22.80
1990	273,474	23.90	94,796	19.00	27,746	46.20	1,856,343	10.30	14,489	19.70
1989	137,176	22.90	104,468	21.60	27,194	33.50	1,709,410	8.90	64,830	22.00
1988	200,154	30.70	66,494	23.20	15,648	24.60	1,582,830	16.80	38,024	41.30
1987	246,125	43.60	53,816	36.40	14,843	34.40	1,250,216	13.60	48,460	26.40
1986	176,010	47.70	46,832		4,272	84.90	1,207,328		82,895	21.90
1985	145,998	31.10	13,672		29,306	78.10	2,320,914		24,825	53.80
1984	238,585	31.70	52,395		41,603	20.80	1,851,069	15.50	1,011	100.00
1983	57,410	37.00		75.90	53,003	85.80	1,893,659	12.00	11,435	45.00
1982	28,559	38.30	42,268	40.50	0	-	1,393,111	11.80	0	_
1981	160,422	68.80	62,091		671	10.00	1,304,798	27.30	4,405	92.70
			tlantic Ocean cat				, ,		,	

Directed trips for major species in North Carolina by year (continued). Table III.5

Year –	Waho	0	Weakfish			
Teal —	Trips	PSE	Trips	PSE		
2022	34,309	31.60	387,900	17.10		
2021	47,063	23.70	268,131	19.80		
2020	69,753	23.60	142,443	23.90		
2019	43,329	19.40	112,100	18.00		
2018	47,725	20.30	97,928	23.70		
2017	74,721	19.30	147,138	16.80		
2016	83,613	22.60	275,045	15.60		
2015	99,224	24.30	449,929	21.80		
2014	70,998	26.20	226,756	15.20		
2013	47,999	24.20	164,120	13.50		
2012	62,680	15.00	198,691	12.10		
2011	51,715	21.40	122,784	14.50		
2010	43,944	18.00	231,359	12.90		
2009	51,309	24.00	187,203	15.70		
2008	50,932	18.20	151,787	15.60		
2007	56,232	19.90	211,544	13.90		
2006	64,976	25.90	385,571	14.90		
2005	58,120	25.80	297,007	12.00		
2004	40,833	20.20	368,146	12.60		
2003	35,915	27.10	246,707	12.30		
2002	53,204	18.20	249,751	13.40		
2001	32,951	19.20	387,690	15.50		
2000	55,387	20.50	290,012	12.50		
1999	36,787	17.00	323,706	10.40		
1998	19,552	12.20	325,912	13.20		
1997	46,756	15.40	284,957	9.60		
1996	41,899	15.90	215,012	10.30		
1995	46,288	11.30	199,328	11.10		
1994	35,247	13.50	297,732	10.60		
1993	22,211	16.90	247,237	14.20		
1992	21,221	18.50	156,607	18.10		
1991	16,358	17.50	193,545	20.10		
1990	17,041	18.70	118,139	18.20		
1989	20,862	18.90	214,618	17.00		
1988	5,366	22.70	238,449	27.00		
1987	14,075	26.90	417.768	31.10		
1986	35,658	26.50	538,707	30.10		
1985	6,322	97.20	207,516	29.50		
1984	1,637	100.00	321,962	21.30		
1983	11,083	64.20	172,911	34.60		
1982	577	100.00	87,418	33.40		
1981	4,599	75.20	406,485	43.40		
			lantic Ocean cat			

Table III.6 Amberjack, Greater recreational catch in North Carolina by year.

					5.1		Mean	Mean
Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Length	Weight
				(num)		,	(inches)	(lb)
2022	79,265	25.90	5,387	30.20	7,694	63.90	29.80	14.70
2021	159,419	29.90	8,946	28.90	3,301	35.20	33.00	17.80
2020	212,826	35.00	10,714	34.90	12,326	42.60	34.00	19.90
2019	81,769	40.80	4,236	38.60	4,980	50.30	32.90	19.30
2018	227,441	40.40	11,742	43.10	2,243	55.60	34.20	19.40
2017	157,091	28.40	6,653	26.80	6,229	31.70	35.10	23.60
2016	305,372	32.90	18,608	32.80	31,318	42.50	32.00	16.40
2015	360,417	24.90	16,436	23.00	10,128	84.30	34.30	21.90
2014	94,629	32.80	5,004	35.50	1,935	56.30	33.30	18.90
2013	428,664	33.90	19,275	31.90	21,209	53.30	34.60	22.20
2012	216,938	24.10	12,412	23.80	3,379	50.10	32.20	17.50
2011	142,570	35.70	6,810	33.20	9,295	94.50	34.20	20.90
2010	455,278	29.40	20,377	31.20	4,773	55.30	35.70	22.30
2009	686,583	30.60	25,670	30.10	9,226	50.30	37.80	26.70
2008	422,220	29.50	18,446	27.40	17,393	54.70	35.50	22.90
2007	90,525	60.50	5,789	67.20	0	-	30.70	15.60
2006	289,118	68.20	14,023	67.90	3,289	99.10	33.30	20.60
2005	78,610	55.70	2,956	70.00	4,612	77.30	34.80	26.60
2004	40,556	33.60	1,949	33.80	3,261	72.60	34.60	20.80
2003	139,546	43.20	6,198	43.30	6,676	58.80	34.50	22.50
2002	137,296	33.30	5,733	32.00	18,266	48.00	35.20	23.90
2001	110,990	33.60	4,274	31.00	3,186	46.90	36.10	26.00
2000	136,075	43.70	6,214	42.20	4,026	62.20	33.50	21.90
1999	27,491	50.30	1,908	69.30	1,245	83.20	24.40	14.40
1998	84,655	38.70	3,084	34.80	2,972	63.90	36.90	27.40
1997	105,041	55.70	3,179	51.80	5,984	43.20	40.50	33.00
1996	252,047	32.90	8,554	30.20	8,859	40.60	38.20	29.50
1995	115,585	38.60	4,164	36.10	2,089	45.90	37.20	27.80
1994	134,337	25.30	6,191	24.20	2,178	55.70	34.50	21.70
1993	110,583	37.70	4,332	32.30	11,056	35.60	36.40	25.50
1992	49,742	36.70	1,948	34.70	4,681	37.00	36.30	25.50
1991	91,707	45.30	30,734	72.50	161,944	72.90	12.00	3.00
1990	229,048	40.60	9,340	36.20	6,073	62.10	33.80	24.50
1989	482,794	45.30	10,688	42.90	4,073	41.30	46.30	45.20
1988	15,374	88.80	7,010	58.60	1,920	54.20	45.20	2.20
1987	318,731	36.40	9,471	31.30	1,919	48.50	40.40	33.70
1986	214,814	38.50	11,315	38.30	3,331	69.90	32.40	19.00
1985	161,809	54.10	11,526	62.00	7,824	98.70	29.50	14.00
1984	26,826	101.30	754	101.30	0	-	43.30	35.60

Table III.6 Amberjack, Greater recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	7,985	100.50	659	100.50	0	-	-	-
1982	16,352	101.60	399	101.60	0	-	44.50	40.90
1981	807	120.20	772	120.90	0	-	10.00	1.00

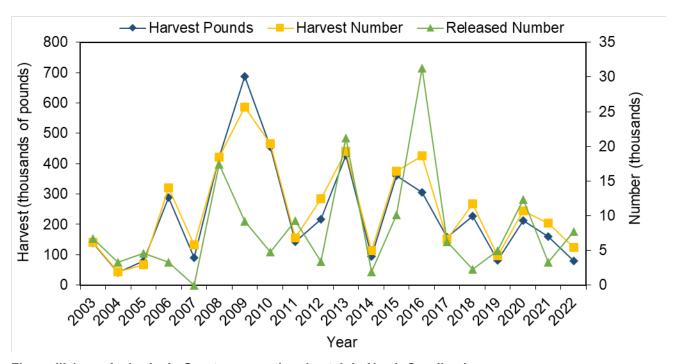


Figure III.1 Amberjack, Greater recreational catch in North Carolina by year.

Table III.7 Amberjack, Greater recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	79,265	25.90	5,387	30.2	7,694	63.9	29.8	14.7
Florida	635,778	32.60	31,918	28.3	4,893	92.1	33.4	21.9
Georgia	1,681	103.60	74	103.6	3,782	101.3	36.3	22.6
South Carolina	28,402	78.90	1,756	81.0	45,011	81.6	31.7	16.2

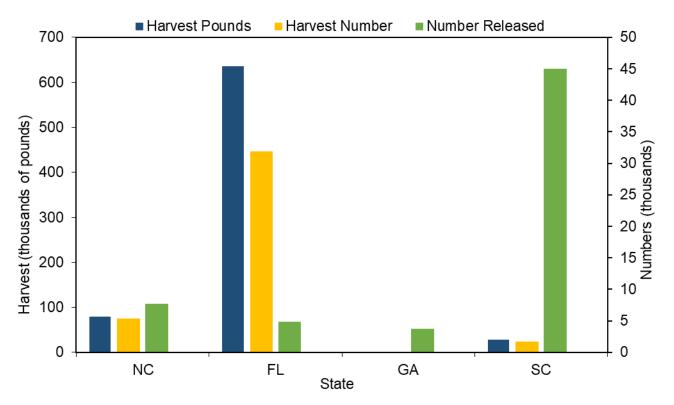


Figure III.2 Amberjack, Greater recreational catch by state, 2022.

Table III.8 Barracuda, Great recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length	Mean Weight
				<u> </u>			(inches)	(lb)
2022	29,368	33.70	1,939	30.50	3177	40.50	38.70	15.10
2021	33,469	25.30	2,936	23.70	21,844	47.70	36.00	11.40
2020	72,196	33.70	7,694	34.50	15,723	38.90	33.90	9.40
2019	15,529	31.20	1,661	28.80	30,700	43.40	33.00	9.40
2018	52,304	34.80	5,848	37.20	19,937	55.00	33.00	8.90
2017	76,501	79.60	2,771	58.50	15,683	39.60	47.00	27.60
2016	27,950	53.70	2,420	55.00	5,599	42.30	35.70	11.60
2015	22,806	40.30	3,844	45.60	9,561	41.60	27.50	5.90
2014	36,960	83.60	2,564	80.50	2,358	58.40	41.30	14.40
2013	2,183	72.90	365	74.90	7,722	51.80	28.90	6.00
2012	11,601	40.00	972	44.50	5,781	38.10	36.60	11.90
2011	12,375	37.70	1,100	40.00	5,286	50.30	36.10	11.20
2010	17,803	40.00	2,127	38.90	6,152	36.00	32.20	8.40
2009	21,007	40.80	2,500	41.90	20,831	47.50	33.10	8.40
2008	103,655	57.30	10,877	59.70	17,468	36.60	33.80	9.50
2007	7,288	73.10	823	76.60	4,989	55.00	33.30	8.90
2006	1,446	51.90	158	54.60	8,240	50.90	32.80	9.10
2005	60,348	55.20	5,883	59.10	13,186	55.50	34.20	10.30
2004	103,666	67.70	9,691	62.20	8,522	83.40	35.50	10.70
2003	90,668	41.30	6,562	34.10	4,213	47.50	35.30	13.80
2002	88,024	32.70	7,887	33.80	8,573	33.10	33.10	11.20
2001	82,942	42.90	6,214	42.80	9,001	28.20	36.20	13.30
2000	6,597	60.60	423	54.60	3,231	42.80	39.90	15.60
1999	30,464	58.70	1,457	56.60	3,767	46.10	45.50	20.90
1998	20,126	32.50	1,650	37.00	2,120	38.60	38.00	12.20
1997	39,968	46.00	2,403	45.30	2,032	41.50	38.00	16.60
1996	51,592	38.40	5,384	39.90	3,401	35.70	32.50	9.60
1995	60,388	55.60	4,748	57.80	5,728	29.10	38.50	12.70
1994	32,936	31.90	1,862	33.00	6,120	35.20	40.90	17.70
1993	42,887	28.20	2,935	27.60	1,501	41.10	38.60	14.60
1992	14,768	31.90	1,250	32.90	4,151	45.80	35.60	11.80
1991	36,054	33.50	2,325	32.50	1,957	73.60	37.00	15.50
1990	38,065	52.80	4,326	51.20	26,819	93.00	32.70	8.80
1989	34,490	47.30	2,276	49.20	4,303	53.20	39.10	15.20
1988	765	83.40	2,316	49.80	11,982	89.10	32.60	0.30
1987	51,309	67.60	1,641	51.20	127	73.90	48.60	31.30
1986	1,686	85.20	152	86.00	115	104.00	34.50	11.10
1985	-	-	-	-	-	-	-	-
1984	6,144	127.50	1,639	127.50	1,639	127.50	20.90	3.70

Table III.8 Barracuda, Great recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	19,045	108.10	1,640	108.10	0	-	39.00	11.60
1982	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	_

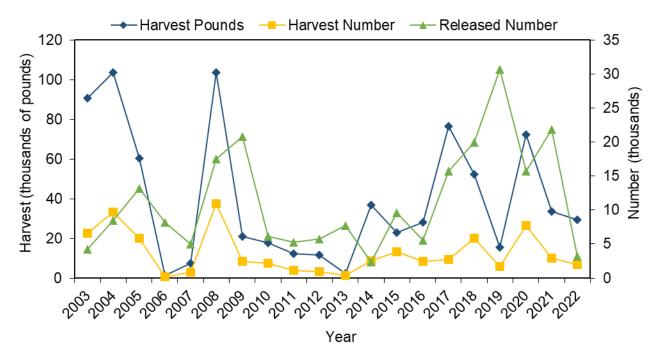


Figure III.3 Barracuda, Great recreational catch in North Carolina by year.

Table III.9 Barracuda, Great recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	29,368	33.70	1,939	30.50	3,177	40.50	38.70	15.10
Florida	2,116,233	38.00	281,188	33.90	414,033	20.00	30.70	7.60
Georgia	87,847	72.40	6,641	72.40	12,369	85.60	39.50	13.20
South Carolina	4,371	112.40	409	112.40	20,357	41.10	34.70	10.70
Virginia	833	102.10	33	102.10	0	-	43.00	24.90

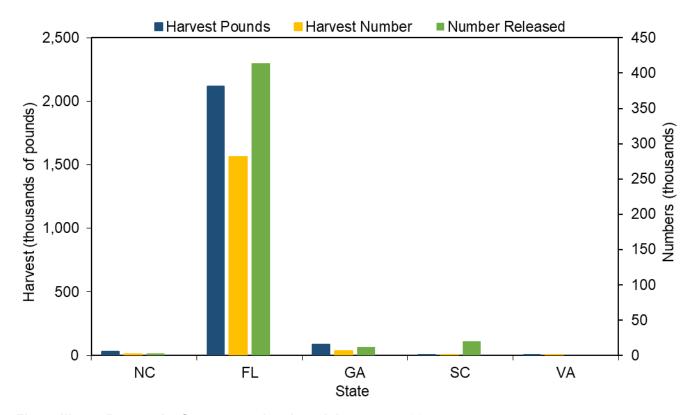


Figure III.4 Barracuda, Great recreational catch by state, 2022.

Table III.10 Bass, Black Sea recreational catch in North Carolina by year.

	Harvest	PSE	Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	(lb)	Number	(num)	Number	(release)	Length (inches)	Weight (lb)
2022	253,302	38.60	151,867	32.60	4,675,553	17.30	14.60	1.70
2021	79,195	30.80	50,612	29.50	2,172,902	10.90	15.00	1.60
2020	195,098	27.30	133,096	27.00	2,438,922	11.00	13.90	1.50
2019	220,377	51.60	151,999	50.20	2,802,990	18.00	14.30	1.40
2018	116,825	32.10	86,153	32.90	2,223,800	17.00	13.60	1.40
2017	539,910	30.90	316,925	29.30	6,190,501	13.50	14.70	1.70
2016	302,925	31.90	194,512	31.40	5,536,050	13.70	14.50	1.60
2015	455,100	32.50	319,653	32.90	5,036,500	18.80	14.00	1.40
2014	563,662	31.60	332,594	32.20	5,022,908	15.60	14.70	1.70
2013	123,413	21.30	89,682	20.70	3,041,126	9.80	13.90	1.40
2012	228,090	19.80	134,124	18.20	4,650,495	8.40	14.40	1.70
2011	262,904	33.50	179,892	32.40	2,569,950	9.10	14.00	1.50
2010	231,236	26.50	184,479	26.10	2,223,822	16.90	13.30	1.30
2009	167,165	28.00	152,614	30.00	1,681,278	14.50	13.10	1.10
2008	119,530	30.40	91,097	30.80	1,056,171	14.00	13.60	1.30
2007	302,485	31.80	153,597	37.90	1,672,116	12.30	15.40	2.00
2006	201,508	30.40	190,962	27.60	2,162,091	11.90	12.30	1.10
2005	453,071	41.70	346,733	28.20	2,142,304	14.40	13.20	1.30
2004	509,890	30.40	547,651	33.10	1,942,630	15.70	11.70	0.90
2003	320,436	21.40	327,249	22.10	931,453	15.70	11.90	1.00
2002	202,496	21.20	153,335	22.60	1,023,629	13.50	13.10	1.30
2001	410,649	19.80	362,563	18.60	1,498,961	12.60	12.30	1.10
2000	386,856	39.60	327,651	30.90	1,652,835	19.80	12.80	1.20
1999	107,415	27.90	119,359	25.30	1,325,394	15.00	11.30	0.90
1998	180,338	21.00	229,050	24.50	1,279,363	15.50	10.40	0.80
1997	247,815	23.10	284,163	23.20	817,146	16.10	10.90	0.90
1996	237,846	24.10	264,846	22.20	438,088	19.20	11.50	0.90
1995	218,180	31.70	276,811	24.50	778,890	17.00	10.70	0.80
1994	270,682	24.80	343,688	21.50	1,000,020	13.40	10.90	0.80
1993	232,338	16.50	358,984	16.50	573,573	28.90	10.00	0.60
1992	564,382	34.00	574,463	23.70	567,693	19.10	11.50	1.00
1991	248,115	16.80	383,066	15.40	980,846	36.60	9.80	0.60
1990	354,530	28.00	480,936	29.10	264,212	17.70	10.50	0.70
1989	504,442	18.20	697,860	18.50	650,051	34.20	10.10	0.70
1988	243,317	63.70	514,347	25.00	810,675	29.50	10.30	0.50
1987	357,611	29.70	541,324	27.10	437,513	26.80	9.90	0.70
1986	178,493	31.00	417,742	39.00	372,066	43.60	9.40	0.40
1985	526,216	46.10	1,065,029	35.80	789,636	35.10	9.20	0.50
1984	547,252	30.30	776,382	32.20	324,343	28.70	10.80	0.70

Table III.10 Bass, Black Sea recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	304,160	42.70	777,261	36.10	832,577	69.40	8.50	0.40
1982	313,693	17.50	476,112	16.40	86,527	33.60	9.00	0.70
1981	566,631	36.10	1,044,203	32.60	1,577,235	46.70	8.10	0.50

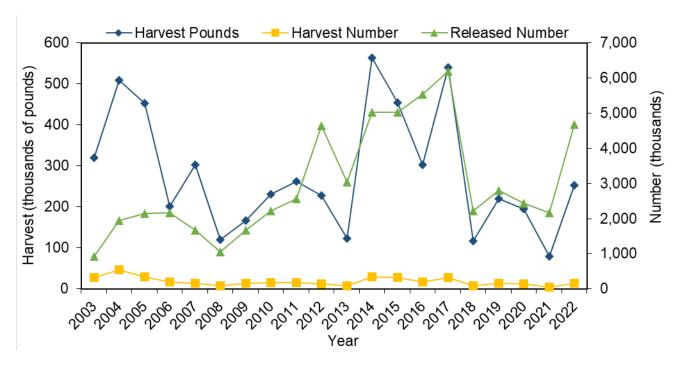


Figure III.5 Bass, Black Sea recreational catch in North Carolina by year.

Table III.11 Bass, Black Sea recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	253,302	38.60	151,867	32.60	4,675,553	17.30	14.60	1.70
Connecticut	863,167	18.20	375,464	18.30	3,177,524	14.30	17.60	2.30
Delaware	250,347	30.40	199,340	29.80	914,352	18.10	14.40	1.30
Florida	139,234	45.20	115,209	45.90	1,812,887	55.90	11.80	0.80
Georgia	5,094	35.00	7,185	50.70	1,343,277	45.30	9.70	0.70
Maryland	198,383	25.00	158,822	25.80	1,072,539	27.60	14.10	1.20
Massachusetts	895,844	20.90	386,198	20.00	3,622,985	15.40	17.70	2.30
New Hampshire	193	99.90	176	99.90	0	-	13.40	1.10
New Jersey	2,011,517	24.70	1,479,757	23.90	10,590,190	13.70	14.40	1.40
New York	2,682,422	15.40	1,300,984	14.90	10,576,678	13.80	16.80	2.10
Rhode Island	618,968	16.20	289,706	16.30	2,930,231	13.50	17.30	2.10
South Carolina	99,725	44.50	66,282	41.90	1,873,522	17.10	14.30	1.50
Virginia	564,208	42.90	342,624	41.50	2,519,336	18.50	15.20	1.60

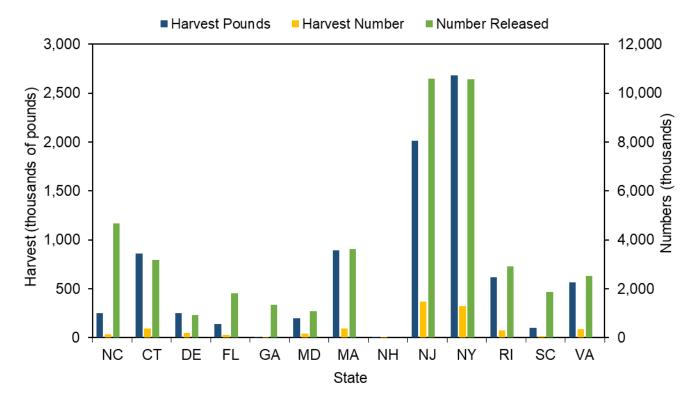


Figure III.6 Bass, Black Sea recreational catch by state, 2022.

Table III.12 Bass, Striped¹ recreational catch in North Carolina by year.

Year	Harvest	PSE (lb)	Harvest	PSE	Released	PSE	Mean Length	Mean Weight
i cai	Pounds	I OL (ID)	Number	(num)	Number	(release)	(inches)	(lb)
2022	0	-	0	-	34,518	79.20	-	-
2021	0	-	0	-	27,665	63.00	-	-
2020	0	-	0	-	3,520	44.40	-	-
2019	0	-	0	-	4,521	52.60	-	_
2018	366	99.10	25	99.10	15,850	47.60		
2017	-	-	-	-	48,410	43.10	-	-
2016	15,961	102.00	4,177	102.00	84,545	41.00	-	-
2015	-	-	-	-	-	-	-	-
2014	0	-	0	-	2,122	100.50	-	-
2013	0	-	0	-	5,840	63.60	-	-
2012	0	-	0	-	7,301	78.10	-	-
2011	4,467,159	19.90	207,610	20.10	234,250	27.70	35.90	21.50
2010	1,294,743	36.70	72,941	38.50	58,858	41.30	33.90	17.80
2009	186,729	45.60	6,548	46.80	16,857	66.70	39.60	28.50
2008	746,511	36.10	36,750	36.90	27,512	52.30	35.50	20.30
2007	1,921,009	34.30	79,668	33.90	28,088	40.40	38.30	24.40
2006	2,914,151	44.40	131,300	43.90	44,907	36.40	36.20	22.20
2005	4,112,555	23.90	200,468	23.00	210,903	37.30	35.80	20.30
2004	7,845,228	20.10	378,498	19.50	387,810	25.30	35.60	20.60
2003	1,004,754	42.60	53,733	38.50	59,799	35.20	36.00	19.20
2002	1,047,529	25.30	60,773	24.90	86,417	24.10	33.00	17.70
2001	1,762,856	36.50	104,177	32.00	77,728	39.50	34.00	17.90
2000	319,604	37.40	22,833	32.10	165,167	22.20	32.10	15.30
1999	610,480	25.30	49,221	25.10	276,663	21.50	31.10	12.90
1998	718,876	31.50	49,236	28.20	255,177	25.20	32.50	15.40
1997	935,719	25.80	73,215	25.10	201,296	19.00	32.50	14.40
1996	397,307	29.50	32,619	28.70	193,986	19.60	30.80	12.30
1995	231,306	32.30	16,428	32.60	28,169	57.30	32.20	14.10
1994	105,456	46.70	9,830	45.80	9,360	39.60	32.20	13.70
1993	6,084	100.10	531	100.10	3,041	60.40	31.60	11.50
1992	0	-	2,680	101.50	928	100.50	32.20	-
1991	10,240	100.00	1,032	100.00	833	97.20	27.00	9.90
1990	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-
1988	0	-	510	91.80	0	-	18.30	-
1987	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-

¹ Includes Striped Bass harvested from the Atlantic Ocean during Waves 1 and 6 only.

Table III.12 Bass, Striped¹ recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-
1981	_	_	_	_	_	_	_	_

¹ Includes Striped Bass harvested from the Atlantic Ocean during Waves 1 and 6 only.

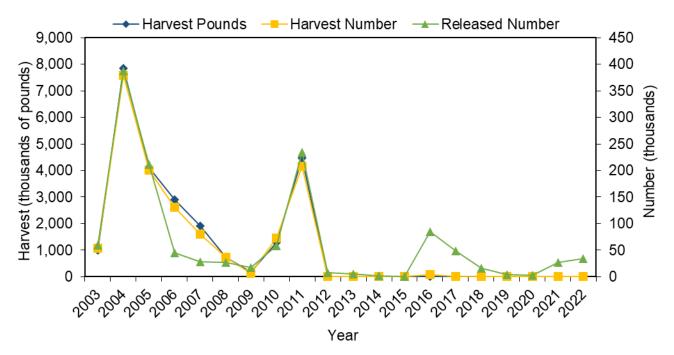


Figure III.7 Bass, Striped recreational catch in North Carolina from the Atlantic Ocean by year.

Table III.13 Bass, Striped¹ recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	0	-	0	-	34,518	79.20	_	-
Connecticut	50,373	53.10	4,137	49.00	174,245	52.00	-	-
Maine	306,495	35.30	29,607	33.50	530,215	18.40	-	-
Massachusetts	1,312,867	21.40	121,717	21.20	1,384,220	19.60	-	-
New Hampshire	177,260	28.30	18,060	28.50	187,643	24.10	-	-
New Jersey	2,975,010	20.80	257,401	22.60	2,383,853	21.60	29.80	11.70
New York	2,086,767	31.10	174,360	28.90	2,330,149	77.30	31.80	13.70
Rhode Island	440,673	27.20	36,787	26.20	583,409	25.40	30.90	11.50

¹ Includes Striped Bass harvested from the Atlantic Ocean during Waves 1 and 6 only.

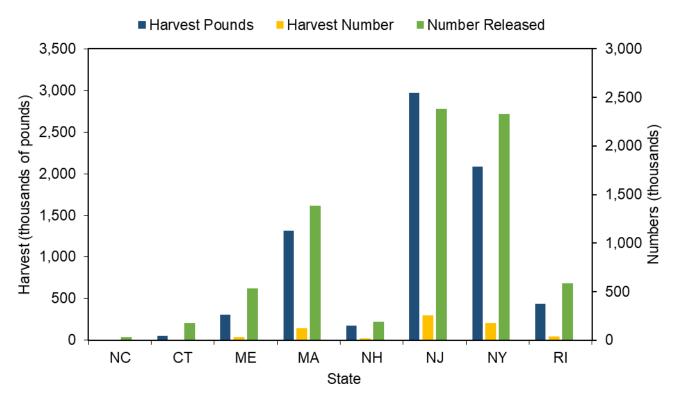


Figure III.8 Bass, Striped recreational catch from the Atlantic Ocean by state, 2022.

Table III.14 Bluefish recreational catch in North Carolina by year.

Voor	Harvest	PSE	Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	(lb)	Number	(num)	Number	(release)	Length (inches)	Weight (lb)
2022	1,645,410	17.40	1,533,911	15.40	9,336,045	23.20	12.00	1.10
2021	1,031,760	13.60	982,389	13.50	3,539,333	22.20	13.00	1.10
2020	2,124,224	21.50	2,108,296	21.20	6,557,751	19.60	12.50	1.00
2019	3,011,480	22.40	2,752,589	23.00	7,162,431	22.00	11.30	0.80
2018	2,630,685	12.30	3,304,587	13.10	7,912,210	16.20	11.30	0.80
2017	3,634,502	28.00	3,173,218	18.30	8,255,510	29.80	12.30	1.10
2016	3,356,049	17.10	4,489,223	17.30	6,802,960	19.30	11.20	0.70
2015	3,754,577	14.40	4,123,461	14.50	6,356,252	15.40	11.90	0.90
2014	3,764,005	13.50	4,418,858	13.30	5,862,762	12.80	12.00	0.90
2013	3,517,233	11.80	4,287,526	11.80	7,050,725	11.40	11.40	0.80
2012	2,872,922	11.00	2,684,392	10.00	3,268,032	8.70	12.50	1.10
2011	3,158,287	14.60	3,613,883	12.00	7,150,476	10.90	11.70	0.90
2010	3,185,652	12.40	3,691,868	10.70	7,419,644	12.30	11.60	0.90
2009	3,566,768	15.10	3,190,313	13.20	6,447,822	12.50	12.70	1.10
2008	2,385,349	14.00	2,855,199	13.90	5,146,870	9.80	12.20	0.80
2007	3,616,359	12.50	3,749,514	13.70	6,740,155	12.40	12.30	1.00
2006	2,651,326	21.60	2,842,593	17.30	5,213,436	13.00	12.30	0.90
2005	2,938,814	16.60	3,004,921	14.60	4,417,822	11.20	12.40	1.00
2004	2,773,518	12.90	2,825,382	12.90	3,781,031	10.90	12.80	1.00
2003	1,843,018	11.30	2,161,780	11.20	3,432,547	12.90	12.40	0.90
2002	2,327,789	12.10	2,484,516	12.70	4,357,535	11.80	12.50	0.90
2001	3,048,743	11.30	3,410,135	11.30	6,756,435	13.90	12.70	0.90
2000	1,721,367	10.70	2,325,583	10.70	5,231,507	24.80	12.00	0.70
1999	1,232,827	14.80	1,774,946	14.90	2,749,327	11.30	11.70	0.70
1998	1,888,463	15.10	1,530,106	13.40	1,530,488	13.60	13.40	1.20
1997	2,366,435	12.20	1,476,271	9.50	2,286,439	11.30	14.00	1.60
1996	1,352,444	19.00	632,382	12.80	1,613,566	13.60	15.00	2.10
1995	770,490	13.10	660,979	11.70	2,345,163	17.30	13.50	1.20
1994	847,458	14.10	673,341	12.70	3,235,793	15.70	13.60	1.30
1993	1,991,395	16.80	1,620,184	14.30	1,825,095	12.80	12.80	1.20
1992	2,226,311	18.70	1,562,752	16.50	1,957,741	15.00	13.30	1.40
1991	4,627,434	24.90	2,423,772	21.00	1,478,829	19.50	13.80	1.90
1990	10,345,929	30.90	6,838,820	16.40	2,427,701	23.70	12.60	1.50
1989	7,123,822	19.70	4,843,723	14.80	2,314,161	22.40	12.10	1.50
1988	4,475,001	55.00	3,131,369	20.60	1,002,321	22.30	16.40	1.40
1987	8,542,577	18.40	3,248,002	13.80	1,402,327	22.90	15.30	2.60
1986	16,245,390	30.20	5,184,834	31.50	1,233,792	31.60	17.80	3.10
1985	7,001,181	36.90	3,706,930	19.60	1,281,466	24.10	13.40	1.90
1984	11,717,446	16.30	5,872,386	23.40	522,965	33.00	13.80	2.00

Table III.14 Bluefish recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	23,116,137	45.80	8,857,165	29.70	1,609,202	33.30	13.80	2.60
1982	4,196,021	21.60	4,678,400	18.20	438,075	26.50	11.60	0.90
1981	6,391,900	10.60	7,121,155	13.00	3,498,306	20.10	11.10	0.90

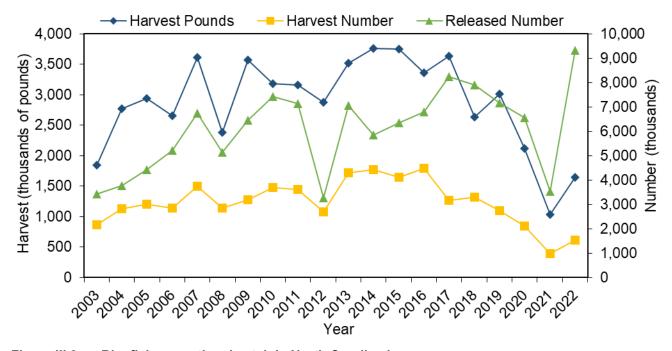


Figure III.9 Bluefish recreational catch in North Carolina by year.

Table III.15 Bluefish recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	1,645,410	17.40	1,533,911	15.40	9,336,045	23.20	11.80	1.10
Connecticut	533,427	25.10	105,910	23.60	608,531	29.10	19.20	5.00
Delaware	62,766	41.90	38,676	41.30	507,201	26.30	15.00	1.60
Florida	2,104,049	28.10	1,125,847	27.70	2,770,871	24.40	15.60	1.90
Georgia	33,961	50.50	43,335	39.60	280,012	23.80	11.00	0.80
Maine	73,725	66.60	8,326	67.10	22,734	71.10	27.20	8.90
Maryland	223,494	22.90	249,382	25.60	237,374	31.20	11.70	0.90
Massachusetts	1,256,205	21.40	183,470	20.40	1,338,720	32.70	22.60	6.80
New Hampshire	2,077	102.60	181	102.60	1,216	99.90	32.20	11.50
New Jersey	1,021,196	21.90	510,820	20.30	1,197,306	21.40	15.40	2.00
New York	3,262,830	34.00	1,710,502	38.80	5,421,115	28.80	12.00	1.90
Rhode Island	586,476	20.30	92,704	19.40	249,535	19.10	23.80	6.30
South Carolina	248,483	24.90	487,654	24.50	2,687,450	29.90	9.10	0.50
Virginia	300,437	33.70	262,360	33.50	1,272,430	53.60	12.70	1.10

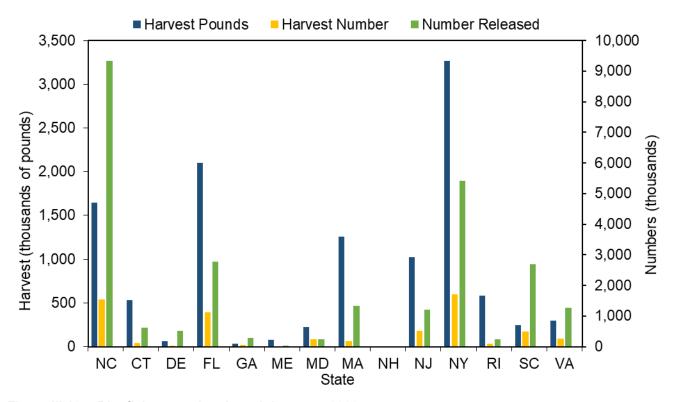


Figure III.10 Bluefish recreational catch by state, 2022.

Table III.16 Bonito, Atlantic recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	70,411	45.70	12,301	45.40	11,762	70.70	21.00	5.70
2021	104,789	29.10	20,177	26.60	7,793	44.50	21.00	5.20
2020	179,803	47.90	52,337	50.90	23,817	55.30	17.80	3.40
2019	122,931	48.60	35,874	66.60	24,033	66.10	17.10	3.40
2018	42,879	49.70	12,576	42.50	11,745	66.40	18.10	3.40
2017	9,578	53.00	1,999	45.60	40,094	75.60	18.80	4.80
2016	22,127	60.30	3,411	64.70	10,196	45.20	21.50	6.50
2015	102,408	42.80	16,973	44.80	1,325	60.80	21.60	6.00
2014	91,228	53.60	18,380	49.30	59,925	62.70	20.10	5.00
2013	99,252	55.40	19,182	59.90	4,609	41.30	20.40	5.20
2012	95,947	49.30	6,913	37.10	7,858	35.60	27.10	13.90
2011	287,458	66.40	21,235	73.10	28,618	42.10	27.10	13.50
2010	8,019	47.10	447	42.40	16,583	41.60	30.20	17.90
2009	13,799	85.40	1,379	71.80	2,561	92.20	24.40	10.00
2008	39,093	61.80	5,230	56.80	23,411	61.10	22.20	7.50
2007	34,693	46.30	7,685	48.10	4,523	41.80	20.40	4.50
2006	4,457	102.40	1,037	102.40	2,755	51.40	21.00	4.30
2005	9,388	73.80	2,102	76.60	42,363	98.60	21.50	4.50
2004	48,251	57.30	10,273	56.60	19,082	39.30	21.60	4.70
2003	6,685	51.20	2,275	58.80	12,968	50.90	16.60	2.90
2002	97,115	66.10	28,728	64.00	30,165	65.70	19.30	3.40
2001	23,602	50.70	7,722	48.20	5,001	56.10	17.40	3.10
2000	69,579	89.90	13,617	93.40	9,257	58.40	22.20	5.10
1999	38,657	44.20	6,045	44.80	2,682	73.00	22.20	6.40
1998	145,837	87.70	13,513	68.40	8,837	72.70	22.90	10.80
1997	162,980	41.80	31,090	41.40	29,817	52.70	21.00	5.20
1996	5,394	71.90	864	58.20	10,845	56.10	21.00	6.20
1995	41,312	80.60	10,528	73.80	2,407	49.20	19.20	3.90
1994	23,712	56.70	11,859	48.20	18,932	48.60	14.40	2.00
1993	49,289	54.50	8,936	61.00	1,690	49.00	19.80	5.50
1992	23,078	31.80	4,690	34.00	2,747	42.90	19.90	4.90
1991	94,896	44.80	17,567	40.00	9,622	80.40	20.90	5.40
1990	22,547	33.80	4,695	32.70	1,057	65.30	20.80	4.80
1989	116,392	58.80	39,759	52.40	4,214	64.00	17.20	2.90
1988	6,017	59.80	241,724	96.20	32,981	99.60	10.30	-
1987	14,910	49.70	2,195	38.80	1,609	59.00	22.70	6.80
1986	-	-	-	-	368	99.30	-	-
1985	8,910	104.30	1,555	104.30	0	-	21.30	5.70
1984	15,540	75.70	1,639	75.70	0	-	25.70	9.50

Table III.16 Bonito, Atlantic recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	-	-	-	-	-	-	-	-
1982	83,807	54.80	9,033	52.60	0	_	23.20	9.30
1981	26,514	86.30	3,110	86.30	0	-	22.80	8.50

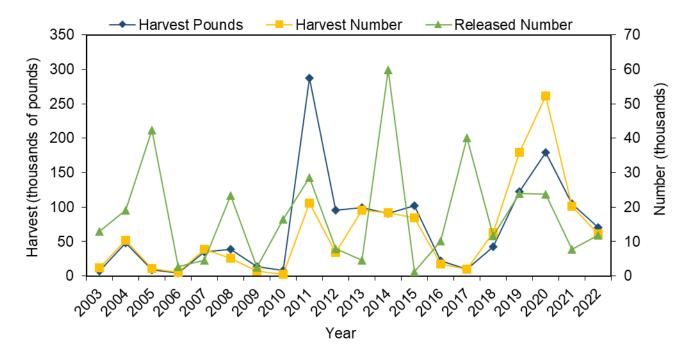


Figure III.11 Bonito, Atlantic recreational catch in North Carolina by year.

Table III.17 Bonito, Atlantic recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	70,411	45.70	12,301	45.40	11,762	70.70	20.90	5.70
Florida	4,242	48.30	264	48.30	0	-	30.30	16.10
Maine	144	107.70	435	107.70	0	-	7.30	0.30
Massachusetts	163,219	51.60	55,620	44.10	99,490	61.90	15.30	2.90
New Hampshire	1,652	107.40	551	80.50	8,933	74.50	15.10	3.00
New Jersey	43,574	82.60	34,471	83.20	218,590	93.30	13.10	1.30
Rhode Island	5,621	72.20	1,186	70.90	4,467	54.30	19.90	4.70
Virginia	95	75.40	74	75.40	0	-	13.10	1.30

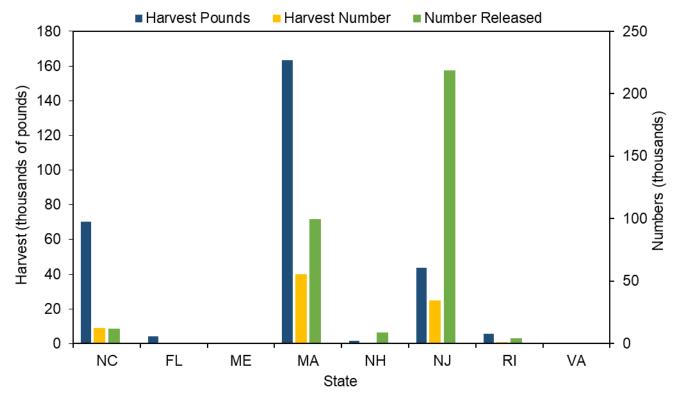


Figure III.12 Bonito, Atlantic recreational catch by state, 2022.

Table III.18 Cobia recreational catch in North Carolina by year.

	Harvest	DOE (".)	Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	PSE (lb)	Number	(num)	Number	(release)	Length (inches)	Weight (lb)
2022	306,411	45.00	12,330	47.00	46,777	26.60	42.00	24.90
2021	356,340	47.70	10,970	39.10	40,136	33.10	43.00	32.50
2020	407,883	33.50	15,067	37.90	51,158	24.00	40.90	27.10
2019	254,963	36.80	10,090	38.60	38,285	23.30	40.30	25.30
2018	685,962	29.10	25,331	33.20	68,219	23.40	40.70	27.10
2017	872,861	45.40	25,025	46.10	125,251	44.50	43.50	34.90
2016	838,363	44.60	26,421	44.90	39,237	26.60	42.70	31.70
2015	1,925,762	29.80	47,110	28.30	44,254	31.40	44.20	40.90
2014	645,427	35.80	24,601	35.80	32,184	29.30	39.30	26.20
2013	980,541	33.00	37,617	31.20	35,398	32.20	38.70	26.10
2012	102,077	35.20	3,805	33.90	66,567	30.10	39.00	26.80
2011	399,192	43.10	10,711	40.40	47,151	25.00	41.50	37.30
2010	808,227	27.80	24,030	26.80	48,590	29.70	43.20	33.60
2009	320,075	45.40	12,823	40.70	55,374	27.30	37.90	25.00
2008	167,463	68.50	3,972	54.90	24,028	39.20	45.30	42.20
2007	218,447	45.00	6,262	46.90	12,695	32.70	43.60	34.90
2006	196,330	45.60	5,154	39.40	11,425	30.10	42.60	38.10
2005	401,557	46.20	18,491	48.70	19,083	43.50	37.40	21.70
2004	420,684	41.40	12,522	39.90	11,079	42.10	43.00	33.60
2003	223,508	37.40	6,948	30.40	21,722	28.40	41.60	32.20
2002	319,178	54.60	7,196	46.10	14,036	38.40	48.10	44.40
2001	121,751	37.90	3,548	33.10	18,500	32.20	43.00	34.30
2000	91,143	54.30	2,473	59.60	4,734	39.80	41.00	36.90
1999	101,465	71.90	2,399	64.30	18,498	65.00	47.00	42.30
1998	117,754	38.70	3,132	34.30	9,859	50.60	44.60	37.60
1997	129,299	30.60	4,115	30.60	13,723	38.30	41.90	31.40
1996	102,899	33.60	4,744	35.90	2,000	40.20	36.30	21.70
1995	302,745	32.30	9,530	29.20	4,817	32.00	43.10	31.80
1994	169,168	35.60	6,908	37.60	4,543	38.00	39.30	24.50
1993	168,142	47.40	6,346	47.70	2,778	70.60	41.30	26.50
1992	317,628	38.80	10,711	37.10	9,777	44.30	40.90	29.70
1991	266,633	40.00	11,524	30.40	22,522	51.60	34.60	23.10
1990	188,539	30.10	10,054	28.00	6,089	48.60	34.10	18.80
1989	208,259	37.40	9,872	27.60	2,262	71.70	33.70	21.10
1988	103,975	64.20	5,716	37.00	3,257	54.80	37.10	18.20
1987	81,833	36.70	6,959	30.40	592	69.70	27.20	11.80
1986	533,982	71.30	17,956	57.60	9,112	96.80	42.70	29.70
1985	2,720	101.20	1,763	101.20	8,471	91.80	19.90	1.50
1984	259,354	71.90	7,167	71.90	6,108	99.00	45.00	36.20

Table III.18 Cobia recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	0	-	0	-	9,464	91.40	-	-
1982	8,430	90.30	6,257	90.30	-	-	15.70	1.30
1981	3,726	97.60	1,690	97.60	-	-	19.50	2.20

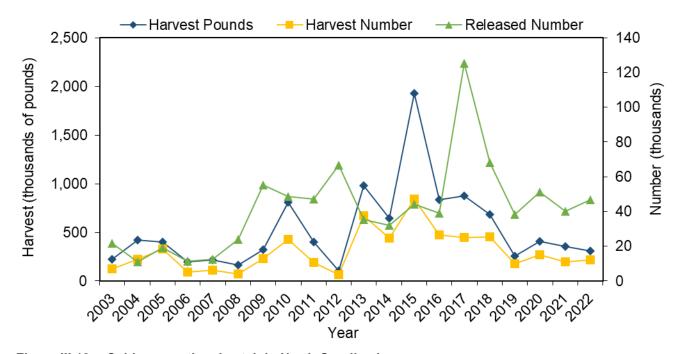


Figure III.13 Cobia recreational catch in North Carolina by year.

Table III.19 Cobia recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	306,411	45.00	12,330	47.00	46,777	26.60	41.80	24.90
Florida	913,427	30.50	45,801	31.20	43,941	44.70	37.10	21.50
Georgia	142,605	72.40	6,641	72.40	14,828	71.30	38.60	21.50
New Jersey	20,970	102.20	711	102.20	0	-	41.60	29.50
New York	144,715	86.40	3,462	82.30	722	100.90	47.30	41.80
South Carolina	139,599	54.10	6,988	55.90	43,131	38.40	37.00	20.00
Virginia	1,129,258	26.90	39,668	25.10	84,150	47.80	40.70	28.50

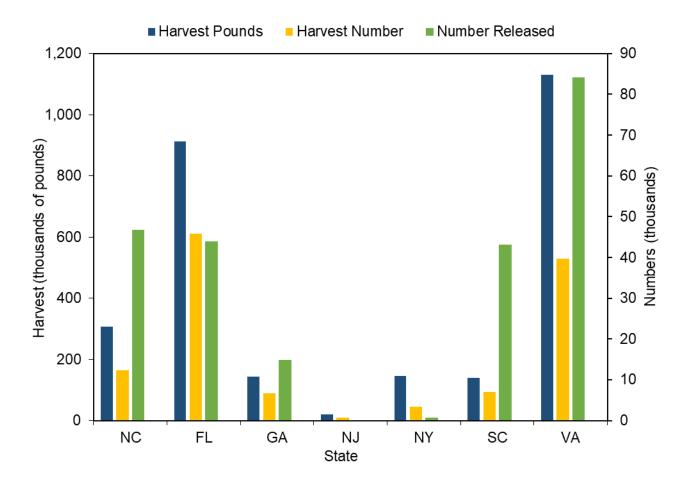


Figure III.14 Cobia recreational catch by state, 2022.

Table III.20 Croaker, Atlantic recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	481,721	28.20	1,110,382	27.90	7,914,042	17.90	9.00	0.40
2021	376,121	14.10	1,066,533	13.90	9,539,047	11.80	9.00	0.40
2020	223,685	20.60	673,377	22.50	5,560,605	13.50	8.90	0.30
2019	224,337	22.80	651,268	20.70	3,634,211	11.50	9.00	0.30
2018	164,644	16.10	472,917	16.00	4,311,368	13.20	8.90	0.30
2017	237,160	16.90	666,930	16.70	4,631,445	13.00	9.00	0.40
2016	443,728	16.80	1,109,570	16.20	7,254,382	14.90	9.30	0.40
2015	557,735	16.30	1,437,019	14.70	9,632,560	11.10	9.20	0.40
2014	758,751	16.90	1,935,961	21.60	10,347,332	13.80	9.10	0.40
2013	453,881	15.80	1,300,804	15.70	6,729,556	10.50	9.10	0.30
2012	307,338	12.60	848,495	12.10	3,878,710	8.70	9.20	0.40
2011	360,390	15.60	873,659	15.20	7,005,152	13.60	9.60	0.40
2010	638,817	15.70	1,280,446	16.00	4,571,287	9.80	9.80	0.50
2009	359,703	16.20	958,128	16.10	5,623,278	11.10	8.90	0.40
2008	275,052	15.40	678,638	14.80	3,274,873	11.60	9.50	0.40
2007	336,486	21.50	1,058,663	20.70	3,933,603	12.40	8.40	0.30
2006	498,741	23.30	1,376,403	23.90	6,381,434	11.90	8.80	0.40
2005	323,380	22.00	672,437	22.40	3,038,472	12.40	9.60	0.50
2004	683,113	24.10	1,218,206	26.10	3,407,280	14.00	10.10	0.60
2003	708,487	23.20	1,127,298	18.80	2,765,303	12.50	10.40	0.60
2002	651,611	17.30	1,265,031	18.80	2,218,039	23.80	9.70	0.50
2001	647,119	15.10	1,285,029	15.70	2,387,491	11.80	10.00	0.50
2000	394,037	14.80	860,246	14.50	3,475,554	12.50	9.60	0.50
1999	525,970	21.10	1,042,224	16.70	2,848,626	13.30	9.70	0.50
1998	376,255	14.80	865,487	14.00	2,038,932	11.60	9.30	0.40
1997	550,949	18.50	1,142,169	15.10	2,367,265	12.30	9.60	0.50
1996	564,016	19.30	1,224,357	17.90	2,051,175	10.70	10.00	0.50
1995	602,628	12.70	1,632,366	12.90	2,024,031	12.10	9.20	0.40
1994	557,403	12.10	1,921,848	13.60	4,302,429	11.20	8.60	0.30
1993	590,338	15.90	1,590,195	15.50	2,594,149	13.60	8.70	0.40
1992	556,026	15.10	1,836,941	15.60	2,565,212	14.60	8.50	0.30
1991	488,193	16.00	1,335,923	17.60	2,031,277	30.20	8.50	0.40
1990	722,352	16.00	2,298,692	16.10	3,298,860	24.00	8.40	0.30
1989	1,749,275	13.90	5,448,002	13.30	2,289,602	16.30	8.30	0.30
1988	217,743	39.00	3,318,868	24.60	1,673,140	18.00	9.40	0.10
1987	559,073	15.80	1,390,142	15.70	885,377	27.90	8.80	0.40
1986	453,024	28.00	1,298,595	24.40	578,593	36.00	9.30	0.30
1985	629,242	20.50	1,670,056	22.50	1,881,666	58.10	8.70	0.40
1984	1,223,695	26.20	4,439,243	30.50	2,503,282	21.50	8.70	0.30

Table III.20 Croaker, Atlantic recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	792,039	36.00	2,373,074	28.30	999,169	36.40	8.70	0.30
1982	521,277	24.90	1,040,373	22.90	1,138,384	47.50	9.80	0.50
1981	1,703,800	52.70	3,178,177	50.00	1,803,849	42.50	9.50	0.50

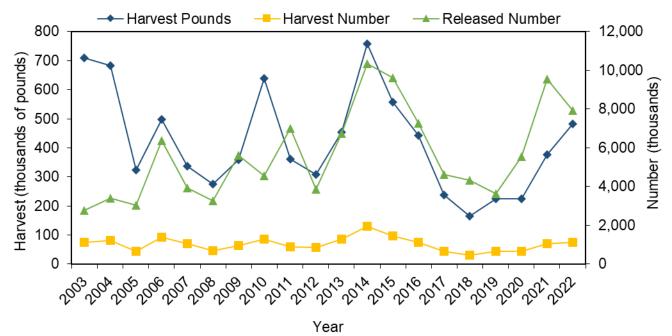


Figure III.15 Croaker, Atlantic recreational catch in North Carolina by year.

Table III.21 Croaker, Atlantic recreational catch by state, 2022.

Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
481,721	28.20	1,110,382	27.90	7,914,042	17.90	9.30	0.40
22,483	41.80	64,397	45.60	467,349	21.80	9.10	0.30
577,555	20.50	942,037	20.40	2,901,874	29.90	10.80	0.60
152,231	32.00	394,967	30.20	2,056,650	25.60	9.20	0.40
21,043	31.50	55,408	31.00	1,537,746	21.40	8.80	0.40
33,048	99.80	91,584	99.80	74,058	42.50	9.20	0.40
240,275	22.90	545,062	22.20	8,359,506	16.00	9.30	0.40
554,254	24.10	1,969,042	25.40	7,193,201	22.40	8.30	0.30
	Pounds 481,721 22,483 577,555 152,231 21,043 33,048 240,275	Pounds PSE (lb) 481,721 28.20 22,483 41.80 577,555 20.50 152,231 32.00 21,043 31.50 33,048 99.80 240,275 22.90	Pounds PSE (lb) Number 481,721 28.20 1,110,382 22,483 41.80 64,397 577,555 20.50 942,037 152,231 32.00 394,967 21,043 31.50 55,408 33,048 99.80 91,584 240,275 22.90 545,062	Pounds PSE (lb) Number (num) 481,721 28.20 1,110,382 27.90 22,483 41.80 64,397 45.60 577,555 20.50 942,037 20.40 152,231 32.00 394,967 30.20 21,043 31.50 55,408 31.00 33,048 99.80 91,584 99.80 240,275 22.90 545,062 22.20	Pounds PSE (lb) Number (num) Number 481,721 28.20 1,110,382 27.90 7,914,042 22,483 41.80 64,397 45.60 467,349 577,555 20.50 942,037 20.40 2,901,874 152,231 32.00 394,967 30.20 2,056,650 21,043 31.50 55,408 31.00 1,537,746 33,048 99.80 91,584 99.80 74,058 240,275 22.90 545,062 22.20 8,359,506	Pounds PSE (lb) Number (num) Number (release) 481,721 28.20 1,110,382 27.90 7,914,042 17.90 22,483 41.80 64,397 45.60 467,349 21.80 577,555 20.50 942,037 20.40 2,901,874 29.90 152,231 32.00 394,967 30.20 2,056,650 25.60 21,043 31.50 55,408 31.00 1,537,746 21.40 33,048 99.80 91,584 99.80 74,058 42.50 240,275 22.90 545,062 22.20 8,359,506 16.00	Harvest Pounds PSE (Ib) Harvest Number PSE (num) Released Number PSE (release) Length (inches) 481,721 28.20 1,110,382 27.90 7,914,042 17.90 9.30 22,483 41.80 64,397 45.60 467,349 21.80 9.10 577,555 20.50 942,037 20.40 2,901,874 29.90 10.80 152,231 32.00 394,967 30.20 2,056,650 25.60 9.20 21,043 31.50 55,408 31.00 1,537,746 21.40 8.80 33,048 99.80 91,584 99.80 74,058 42.50 9.20 240,275 22.90 545,062 22.20 8,359,506 16.00 9.30

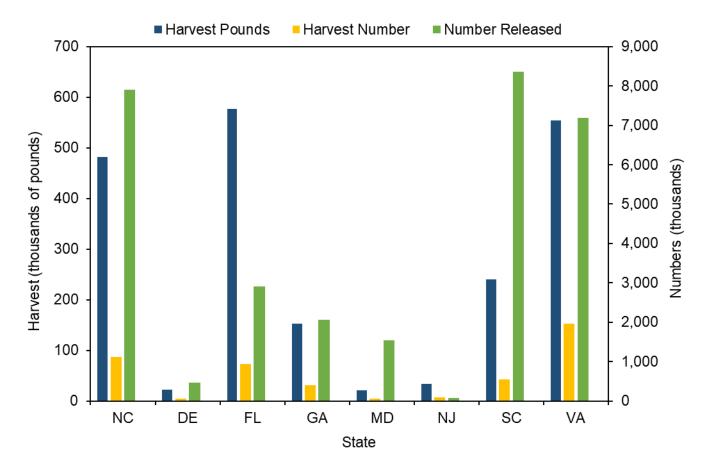


Figure III.16 Croaker, Atlantic recreational catch by state, 2022.

Table III.22 Dolphinfish recreational catch in North Carolina by year.

	Harvest	PSE	Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	(lb)	Number	(num)	Number	(release)	Length (inches)	Weight (lb)
2022	962,267	25.30	117,803	25.30	521	90.70	28.00	8.20
2021	1,945,342	19.10	268,012	17.20	25,108	72.30	26.00	7.30
2020	2,149,038	22.00	262,372	19.20	26,902	62.10	27.90	8.20
2019	3,147,384	20.40	458,086	18.90	35,286	50.60	25.70	6.90
2018	3,318,532	14.80	495,435	15.60	27,959	42.10	25.60	6.70
2017	2,223,509	21.10	279,932	20.70	3,035	39.10	28.00	7.90
2016	5,099,647	18.90	480,860	17.20	2,520	61.40	31.10	10.60
2015	5,610,008	24.80	740,023	23.00	73,872	79.80	27.00	7.60
2014	2,933,166	25.90	403,203	26.90	6,731	55.90	27.00	7.30
2013	2,277,519	16.50	322,769	18.40	5,315	55.00	26.60	7.10
2012	3,335,644	13.50	426,877	13.00	4,800	37.50	28.40	7.80
2011	4,950,235	16.70	638,543	15.30	16,217	87.80	27.70	7.80
2010	3,754,430	15.90	615,081	17.80	5,759	50.40	25.20	6.10
2009	6,380,552	18.30	595,967	17.40	4,480	51.70	32.00	10.70
2008	3,227,899	17.30	362,023	15.40	2,393	56.70	29.20	8.90
2007	5,729,879	15.60	591,835	14.30	6,908	53.20	30.40	9.70
2006	4,300,459	13.40	551,924	13.40	32,911	39.80	27.80	7.80
2005	5,664,028	17.80	634,260	17.10	3,264	66.70	29.20	8.90
2004	2,445,482	15.80	323,140	16.30	6,905	58.60	27.60	7.60
2003	3,029,205	22.00	245,651	19.40	13,985	57.10	31.90	12.30
2002	4,853,768	14.60	400,736	13.10	3,699	45.30	30.50	12.10
2001	4,669,172	20.70	344,865	17.20	4,781	44.80	31.90	13.50
2000	4,631,849	16.50	516,491	15.60	17,396	32.00	28.40	9.00
1999	3,280,273	19.70	395,167	17.70	10,406	55.20	28.30	8.30
1998	1,792,198	19.60	241,733	18.60	9,249	40.80	27.00	7.40
1997	3,400,820	15.00	372,989	14.50	6,320	35.20	28.80	9.10
1996	1,514,866	24.10	213,861	21.60	2,154	43.80	26.30	7.10
1995	2,324,560	14.40	295,178	13.70	9,620	34.30	27.50	7.90
1994	1,791,880	15.60	268,417	15.30	9,402	27.70	25.50	6.70
1993	1,527,078	16.30	291,297	16.10	3,190	30.70	22.90	5.20
1992	927,165	21.40	167,690	21.30	6,936	51.80	22.70	5.50
1991	1,298,933	18.70	254,975	18.70	7,025	33.20	23.00	5.10
1990	986,307	26.70	209,476	27.30	1,452	57.40	23.20	4.70
1989	1,653,574	24.60	231,953	29.10	1,696	67.20	25.30	7.10
1988	205,599	43.50	81,487	33.90	31,262	102.10	23.80	2.50
1987	489,338	24.80	93,044	26.00	79	73.70	22.70	5.30
1986	478,136	32.10	49,810	30.10	589	108.70	28.70	9.60
1985	246,722	60.10	19,155	59.60	-	-	33.80	12.90
1984	1,446	75.70	1,639	75.70	-	-	15.60	0.90

Table III.22 Dolphinfish recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	196,959	51.20	21,325	57.00	-	-	28.00	9.20
1982	139,778	57.00	18,745	50.80	-	-	27.20	7.50
1981	195,755	83.60	28,065	85.70	-	-	26.20	7.00

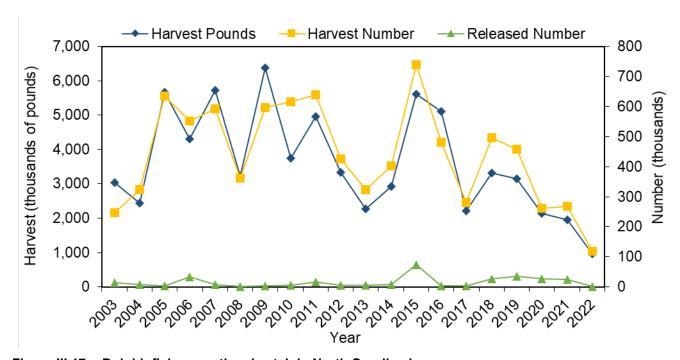


Figure III.17 Dolphinfish recreational catch in North Carolina by year.

Table III.23 Dolphinfish recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	962,267	25.30	117,803	25.30	521	90.70	27.90	8.20
Connecticut	16,994	86.80	6,966	89.10	0	-	18.60	2.40
Delaware	74,319	55.80	26,429	71.80	16,277	66.90	18.60	2.80
Florida	4,579,738	16.10	661,457	14.90	394,279	21.40	25.10	6.10
Maryland	282,405	52.30	68,992	50.60	4,636	107.80	22.00	4.10
Massachusetts	411,757	58.50	53,407	53.10	64,273	81.10	27.50	7.70
New Jersey	143,756	45.90	43,453	40.60	4,801	62.80	19.50	3.30
New York	71,814	49.20	17,423	49.70	0	-	21.50	4.10
Rhode Island	38,142	50.50	5,930	49.60	513	86.90	25.40	6.40
South Carolina	1,303,491	40.80	99,763	40.10	3,254	104.20	34.80	13.10
Virginia	136,192	67.00	33,440	68.60	38,648	92.00	21.00	4.10

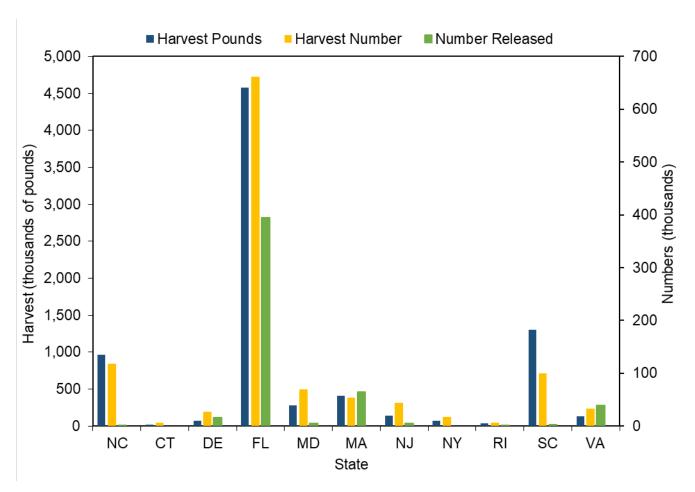


Figure III.18 Dolphinfish recreational catch by state, 2022.

Table III.24 Drum, Black recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	1,710,528	56.30	264,634	43.90	647,304	31.70	19.00	6.50
2021	359,481	17.50	121,454	19.00	681,121	29.00	16.00	3.00
2020	612,932	16.50	213,320	14.70	704,357	18.90	16.30	2.90
2019	404,452	20.10	156,401	19.90	756,749	16.60	15.70	2.60
2018	428,273	28.30	134,624	27.20	1,450,855	21.60	16.50	3.20
2017	856,081	46.90	355,544	47.80	2,336,352	22.10	16.10	2.40
2016	1,322,547	46.60	459,078	55.60	2,530,596	29.90	16.70	2.90
2015	780,876	18.60	276,126	20.10	1,791,758	21.90	16.90	2.80
2014	230,834	32.90	109,307	38.50	1,964,749	27.20	15.00	2.10
2013	2,709,269	25.80	1,511,995	17.60	497,334	27.70	12.90	1.80
2012	879,401	20.40	556,482	20.90	397,155	18.70	12.70	1.60
2011	823,423	18.30	1,259,216	20.90	711,755	23.10	10.00	0.70
2010	812,699	23.60	650,010	24.80	427,577	27.40	11.30	1.30
2009	421,788	21.20	449,901	26.50	411,358	28.30	10.60	0.90
2008	1,232,589	27.90	925,963	22.70	548,931	25.20	12.40	1.30
2007	697,822	19.70	876,178	24.90	832,132	25.60	10.70	0.80
2006	431,212	25.60	276,257	22.50	265,369	29.00	13.40	1.60
2005	509,328	30.80	465,076	29.40	376,363	25.60	10.50	1.10
2004	566,484	20.50	296,531	21.10	255,753	44.20	13.50	1.90
2003	1,926,671	32.30	1,265,995	42.60	481,742	21.20	11.10	1.50
2002	1,791,703	20.20	846,855	18.50	215,810	34.50	14.10	2.10
2001	446,202	24.80	400,983	29.50	325,234	32.20	11.20	1.10
2000	685,687	35.60	293,983	30.10	112,470	28.20	15.20	2.30
1999	561,678	18.40	374,245	16.70	267,723	25.40	12.90	1.50
1998	164,280	21.90	105,349	22.20	95,834	25.50	12.10	1.60
1997	277,316	22.90	106,854	19.80	62,498	26.70	15.50	2.60
1996	608,460	22.60	468,766	19.70	176,061	33.60	12.40	1.30
1995	713,652	22.80	931,269	25.80	227,608	21.10	10.60	0.80
1994	272,820	43.30	132,517	37.40	9,122	52.00	14.70	2.10
1993	90,014	24.50	98,091	27.40	15,780	41.40	10.70	0.90
1992	52,009	33.10	30,466	34.40	3,362	100.60	13.30	1.70
1991	24,452	33.90	18,451	36.40	4,026	48.90	11.40	1.30
1990	7,471	45.60	7,797	53.50	8,694	99.70	9.60	1.00
1989	3,459	86.20	649	71.20	398	100.50	18.00	5.30
1988	-	-	13,363	45.30	5,520	102.30	14.70	0.00
1987	91,522	40.10	90,119	57.40	1,528	78.40	10.80	1.00
1986	77,384	66.90	30,377	60.20	6,793	100.60	16.00	2.50
1985	12,217	59.90	17,735	58.40	0	-	10.40	0.70
1984	-	-	-	-	-	-	-	-

Table III.24 Drum, Black recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	-	-	-	-	-	-	-	-
1982	662	98.50	2,699	98.50	0	-	4.70	0.20
1981	-	-	-	_	-	-	-	-

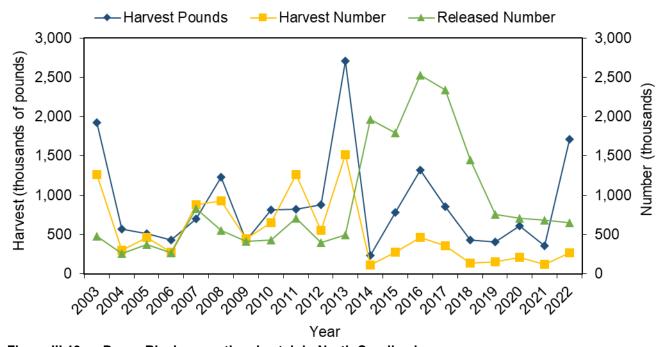


Figure III.19 Drum, Black recreational catch in North Carolina by year.

Table III.25 Drum, Black recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	1,710,528	56.30	264,634	43.90	647,304	31.70	19.30	6.50
Delaware	1,412	79.00	54	71.00	7,064	55.20	35.10	26.30
Florida	2,395,463	49.70	367,912	31.40	345,227	29.70	21.70	6.70
Georgia	295,514	28.70	111,492	28.80	168,502	29.40	16.00	2.70
Maryland	19,580	76.60	2,945	72.80	10,268	65.60	22.20	6.60
New Jersey	190,561	68.00	8,594	62.40	59,745	72.70	34.40	22.20
New York	18,897	85.80	422	85.80	0	-	45.30	44.80
South Carolina	319,324	29.40	92,122	29.30	647,853	28.70	17.50	3.50
Virginia	18,130	95.30	1,231	88.50	44,621	54.10	29.30	14.70

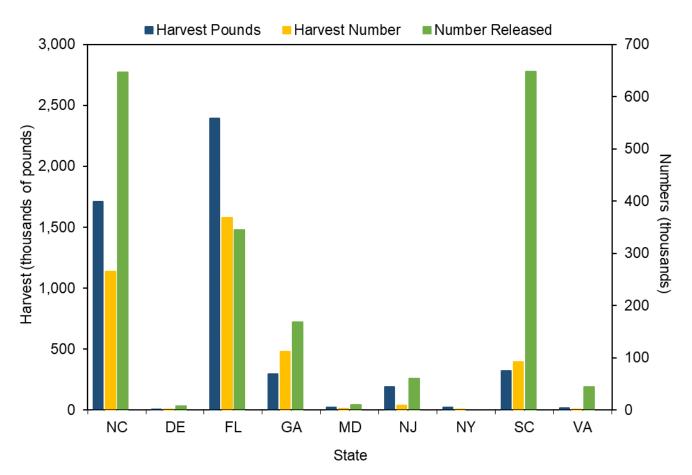


Figure III.20 Drum, Black recreational catch by state, 2022.

Table III.26 Drum, Red recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length	Mean Weight
		, ,		, ,		, ,	(inches)	(lb)
2022	1,615,108	15.40	336,280	15.10	2,160,742	15.60	22.00	4.80
2021	1,479,550	11.60	325,662	11.40	2,545,371	19.00	22.00	4.50
2020	1,758,789	11.80	413,419	11.30	2,686,150	12.90	21.20	4.30
2019	436,219	24.20	97,186	22.80	2,976,601	17.40	21.50	4.50
2018	1,452,358	18.60	299,577	19.10	1,729,260	15.30	22.70	4.80
2017	1,475,852	18.00	353,716	17.00	2,165,656	13.00	21.40	4.20
2016	633,496	18.40	169,195	22.10	3,203,452	30.50	20.10	3.70
2015	567,730	26.10	143,876	24.50	1,308,072	27.20	20.70	3.90
2014	1,674,595	18.20	324,303	18.80	1,086,967	13.30	22.90	5.20
2013	2,214,045	13.90	520,758	13.30	1,892,171	11.60	21.70	4.30
2012	648,342	12.60	152,005	13.10	4,939,534	11.40	21.10	4.30
2011	737,853	18.10	156,484	16.70	587,369	13.40	21.90	4.70
2010	835,143	12.80	179,828	12.20	1,670,693	10.10	22.00	4.60
2009	1,028,339	18.60	214,317	18.80	1,238,158	16.00	22.50	4.80
2008	523,607	18.60	112,938	17.40	1,510,133	14.40	22.00	4.60
2007	789,430	14.80	157,577	15.20	818,037	13.90	22.60	5.00
2006	569,699	18.90	127,412	17.50	1,042,564	15.20	21.20	4.50
2005	470,914	22.10	103,275	19.90	967,892	37.50	21.80	4.60
2004	245,163	29.70	58,543	26.00	369,326	13.30	21.10	4.20
2003	359,181	19.10	73,202	18.90	215,277	18.10	21.80	4.90
2002	571,102	21.00	127,559	19.60	1,515,679	17.20	21.40	4.50
2001	290,901	18.60	57,929	18.10	538,370	20.10	22.40	5.00
2000	655,251	16.90	127,165	16.10	443,747	18.60	22.40	5.20
1999	701,002	15.50	151,062	15.10	633,951	13.80	22.10	4.60
1998	843,571	16.20	164,693	15.30	388,288	14.30	22.50	5.10
1997	98,079	28.90	22,829	28.60	426,993	15.40	19.40	4.30
1996	391,364	19.70	90,177	24.30	97,663	22.90	20.20	4.30
1995	692,063	14.60	151,145	13.70	373,695	15.50	21.20	4.60
1994	349,317	22.50	72,245	29.40	185,906	18.60	21.20	4.80
1993	538,175	20.10	107,235	19.20	442,230	40.80	21.70	5.00
1992	233,100	27.00	48,099	26.40	140,866	25.10	22.20	4.80
1991	345,911	23.90	111,787	24.20	336,524	21.60	18.10	3.10
1990	261,688	31.90	98,374	33.40	46,812	49.00	17.00	2.70
1989	718,961	45.90	234,788	43.20	15,246	40.90	18.00	3.10
1988	163,965	28.10	532,944	52.30	98,940	65.40	15.60	0.30
1987	759,124	35.50	242,703	34.00	50,274	38.70	17.30	3.10
1986	648,779	51.10	310,934	50.70	-	-	16.10	2.10
1985	175,291	25.60	57,702	33.30	_	-	18.00	3.00
1984	5,942,933	28.20	420,096	23.20	7,719	99.20	30.20	14.10

Table III.26 Drum, Red recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	186,762	32.70	106,833	35.20	1,153	97.10	14.90	1.70
1982	155,015	31.40	48,728	19.50	-	-	18.00	3.20
1981	98,426	61.10	37,380	53.50	10,497	96.80	15.90	2.60

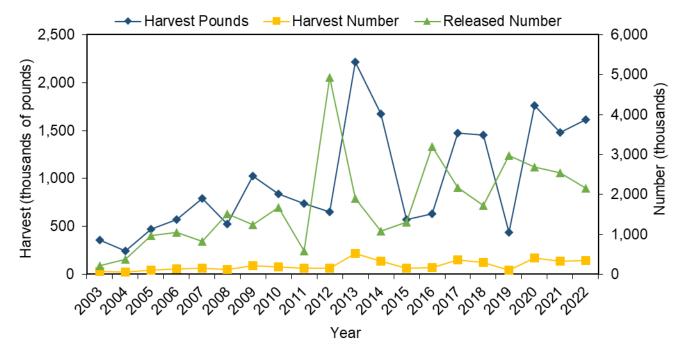


Figure III.21 Drum, Red recreational catch in North Carolina by year.

Table III.27 Drum, Red recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	1,615,108	15.40	336,280	15.10	2,160,742	15.60	22.00	4.80
Florida	1,605,556	27.70	406,391	27.80	4,188,940	15.30	21.30	4.00
Georgia	1,081,410	17.20	607,512	17.70	1,814,251	19.00	16.10	1.80
South Carolina	584,289	17.40	219,659	16.60	1,289,714	13.00	18.20	2.70
Virginia	762,729	25.50	163,962	25.30	770,731	42.00	22.20	4.70

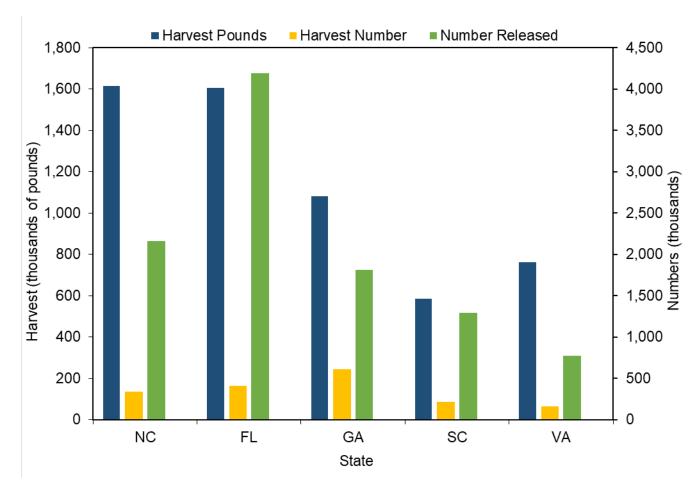


Figure III.22 Drum, Red recreational catch by state, 2022.

Table III.28 Flounder, Southern recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
2022	166,102	25.50	70,945	27.70	2,792,144	-	18.00	2.30
2021	560,440	36.50	266,421	38.00	1,940,051	-	17.00	2.10
2020	398,769	20.70	152,244	19.00	1,678,494	-	17.80	2.60
2019	387,203	23.30	163,045	19.10	1,353,286	-	17.60	2.40
2018	495,289	18.50	217,805	19.30	1,002,753	-	17.20	2.30
2017	451,126	16.80	221,321	18.70	1,988,000	-	16.00	2.00
2016	695,713	16.70	299,273	16.10	2,178,145	-	16.40	2.30
2015	558,303	17.70	249,166	18.50	1,709,189	-	15.80	2.20
2014	447,337	16.90	209,228	17.00	1,856,280	-	16.10	2.10
2013	869,223	22.10	374,215	23.70	2,357,529	-	16.60	2.30
2012	701,698	10.80	290,035	10.60	2,434,621	-	16.50	2.40
2011	942,373	13.20	388,647	13.10	2,087,604	-	17.60	2.40
2010	1,149,899	11.60	556,812	11.50	2,835,142	-	17.00	2.10
2009	692,704	14.70	329,117	15.90	1,889,921	-	16.40	2.10
2008	807,867	16.50	349,860	16.20	2,532,079	-	16.80	2.30
2007	572,064	16.90	279,916	18.20	1,075,735	-	17.20	2.00
2006	761,069	21.80	352,942	17.90	1,287,601	-	16.80	2.20
2005	675,856	17.30	298,307	16.20	997,132	-	16.70	2.30
2004	827,593	18.40	347,492	15.20	1,537,924	-	17.50	2.40
2003	621,985	15.70	293,793	15.40	860,052	-	17.50	2.10
2002	789,539	15.00	366,671	13.60	1,415,247	-	17.40	2.20
2001	567,568	13.70	304,791	13.50	990,335	-	17.00	1.90
2000	607,053	24.30	326,712	28.00	942,560	-	15.80	1.90
1999	184,969	31.90	78,321	29.50	209,956	-	16.40	2.40
1998	205,569	20.10	96,124	18.40	411,939	-	16.00	2.10
1997	560,323	14.50	209,038	14.10	873,901	-	16.90	2.70
1996	339,228	21.90	173,400	19.10	449,876	-	16.20	2.00
1995	271,703	19.20	127,106	17.20	459,800	-	16.30	2.10
1994	323,869	20.50	168,237	19.40	562,915	-	16.00	1.90
1993	127,860	22.60	83,811	25.40	370,372	-	15.20	1.50
1992	219,720	24.30	115,329	24.60	433,576	-	15.70	1.90
1991	489,865	21.10	257,319	14.90	791,778	-	15.40	1.90
1990	216,960	22.70	138,106	23.00	152,895	-	14.70	1.60
1989	199,850	36.00	119,047	30.60	125,192	-	15.10	1.70
1988	11,563	60.30	93,973	35.60	71,905	-	14.80	0.10
1987	251,316	39.10	180,600	34.00	131,915	-	14.10	1.40
1986	192,989	39.70	123,122	35.80	30,940	-	14.70	1.60
1985	206	99.20	216	99.20	0	-	10.80	1.00
1984	25,889	58.40	30,193	62.30	5,755	-	12.90	0.90

¹ Flounder releases are not recorded to species; released number was calculated by assigning a ratio of observed flounder by species to reported flounder genus release estimates. PSEs are not available for this analysis.

Table III.28 Flounder, Southern recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	93,073	75.10	136,158	67.10	0	-	12.00	0.70
1982	114,267	50.20	142,311	55.80	5,393	-	11.10	0.80
1981	27,647	87.60	18,988	78.30	717	-	13.60	1.50

¹ Flounder releases are not recorded to species; released number was calculated by assigning a ratio of observed flounder by species to reported flounder genus release estimates. PSEs are not available for this analysis.

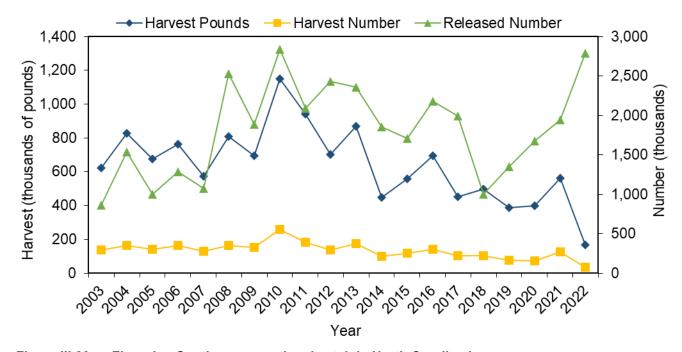


Figure III.23 Flounder, Southern recreational catch in North Carolina by year.

Table III.29 Flounder, Southern recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	166,102	25.50	70,945	27.70	18.40	2.30
Florida	789,854	40.80	465,339	38.30	16.20	1.70
Georgia	222,552	23.60	166,493	23.00	14.60	1.30
South Carolina	525,086	20.60	237,178	20.00	17.50	2.20
Virginia	510	100.70	257	100.70	17.70	2.00

¹Released flounder are not always recorded to species level. Numbers released are not shown by state.

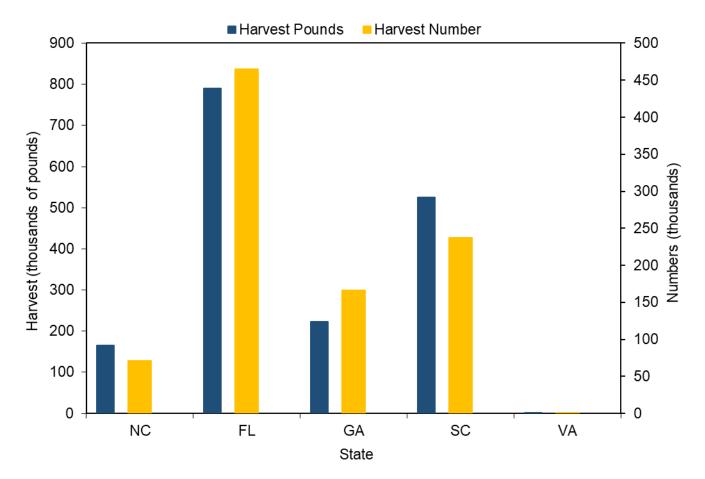


Figure III.24 Flounder, Southern recreational catch by state, 2022.

Table III.30 Flounder, Summer recreational catch in North Carolina by year.

0000		(lb)	Number	PSE (num)	Released Number ¹	PSE (release)¹	Length (inches)	Weight (lb)
2022	22,151	36.00	10,591	35.00	314,007		17.00	2.10
2021	27,492	38.90	13,863	37.30	1,187,109	-	17.00	2.00
2020	37,935	29.60	24,699	31.30	705,247	-	15.50	1.50
2019	52,872	31.20	34,895	31.70	467,942	-	15.90	1.50
2018	92,032	25.40	57,913	25.60	300,195	-	15.90	1.60
2017	147,426	28.70	91,193	28.20	977,285	-	16.20	1.60
2016	110,392	27.10	65,494	27.20	664,388	-	16.20	1.70
2015	157,437	23.60	99,263	23.30	856,849	-	16.00	1.60
2014	215,294	21.60	150,201	21.30	1,478,527	-	15.70	1.40
2013	196,002	19.10	123,742	18.90	1,359,319	-	16.00	1.60
2012	287,522	16.40	176,553	16.50	1,452,828	-	16.30	1.60
2011	311,573	15.90	186,877	15.90	1,009,389	-	16.20	1.70
2010	341,310	14.20	245,839	14.80	1,486,980	-	15.50	1.40
2009	307,692	23.20	219,321	23.70	1,894,409	-	15.70	1.40
2008	132,743	18.00	88,501	17.50	939,708	-	15.70	1.50
2007	379,387	19.90	251,068	18.50	1,299,735	-	15.60	1.50
2006	326,684	17.50	254,653	18.30	977,039	-	15.30	1.30
2005	289,495	23.20	202,797	22.60	734,860	-	15.50	1.40
2004	467,869	26.00	318,632	22.20	1,283,788	-	15.70	1.50
2003	273,895	19.30	177,360	19.20	763,794	-	15.30	1.50
2002	435,113	14.10	366,467	14.40	1,376,069	-	14.70	1.20
2001	577,139	11.50	424,615	11.20	1,836,338	-	15.10	1.40
2000	780,211	13.00	611,081	13.20	2,007,411	-	15.20	1.30
1999	466,028	16.00	357,645	15.00	1,097,385	-	15.10	1.30
1998	780,861	13.30	599,776	13.10	2,942,394	-	15.10	1.30
1997	597,973	12.20	463,367	12.10	1,560,563	-	15.10	1.30
1996	582,987	15.90	486,480	15.70	1,243,934	-	15.10	1.20
1995	344,315	13.50	241,409	11.80	955,117	-	15.10	1.40
1994	947,445	21.50	767,804	20.20	2,094,265	-	15.20	1.20
1993	716,004	13.50	593,005	13.60	2,457,437	-	14.40	1.20
1992	562,855	16.50	458,311	16.70	1,868,903	-	14.40	1.20
1991	622,637	15.10	567,660	15.30	1,398,056	-	13.90	1.10
1990	1,236,371	25.30	1,112,750	22.40	2,293,475	-	14.00	1.10
1989	792,196	18.70	559,131	16.40	509,719	-	14.60	1.40
1988	138,242	26.20	1,469,995	17.90	1,895,950	-	13.20	0.10
1987	403,096	17.50	530,793	18.40	1,096,193	-	12.70	0.80
1986	3,753,337	79.50	3,228,832	65.40	688,243	-	14.20	1.20
1985	2,153,031	45.30	2,012,982	41.50	476,231	-	13.60	1.10
1984	2,025,350	52.40	1,695,404	29.70	736,472	-	13.80	1.20

¹Flounder releases are not recorded to species; released number was calculated by assigning a ratio of observed flounder by species to reported flounder genus release estimates. PSEs are not available for this analysis.

Table III.30 Flounder, Summer recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	986,346	21.60	1,522,625	21.30	601,360	-	12.40	0.60
1982	2,028,678	28.50	2,263,184	22.30	1,240,516	-	13.00	0.90
1981	1,806,863	26.40	2,862,881	35.60	654,626	-	11.30	0.60

¹Flounder releases are not recorded to species; released number was calculated by assigning a ratio of observed flounder by species to reported flounder genus release estimates. PSEs are not available for this analysis.

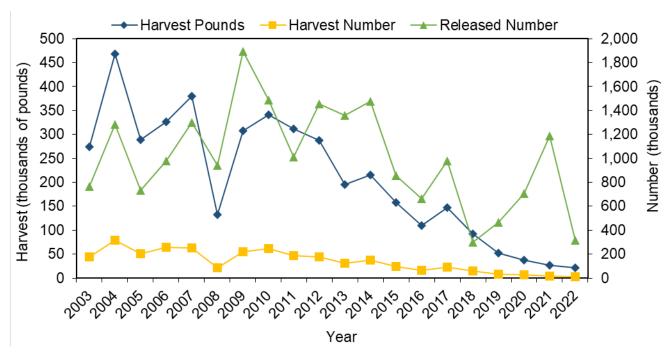


Figure III.25 Flounder, Summer recreational catch in North Carolina by year.

Table III.31 Flounder, Summer recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	22,151	36.00	10,591	35.00	17.20	2.10
Connecticut	411,598	34.50	158,793	38.00	19.00	2.60
Delaware	253,283	18.20	93,521	17.00	18.60	2.70
Florida	729	100.00	870	100.00	13.60	0.80
Georgia	1,202	99.80	1,363	99.80	13.50	0.90
Maryland	185,647	46.00	86,031	45.70	17.90	2.20
Massachusetts	198,199	32.30	88,013	28.50	18.00	2.30
New Jersey	3,552,155	10.30	1,568,802	10.50	18.10	2.30
New York	2,840,199	13.20	886,365	13.20	20.10	3.20
Rhode Island	330,908	19.20	97,797	18.00	20.10	3.40
Virginia	839,164	18.90	385,560	19.00	18.00	2.20

¹Released flounder are not always recorded to species level. Numbers released are not shown by state.

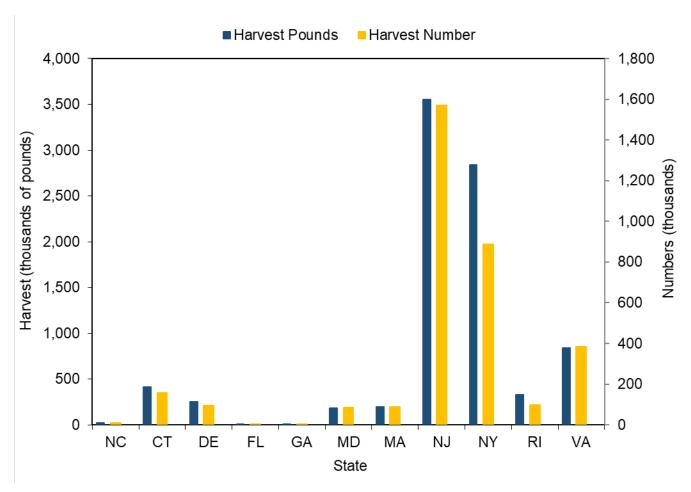


Figure III.26 Flounder, Summer recreational catch by state, 2022.

Table III.32 Grouper, Gag recreational catch in North Carolina by year.

Voca	Harvest	DCE (IL)	Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	PSE (lb)	Number	(num)	Number	(release)	Length (inches)	Weight (lb)
2022	53,621	66.60	4,319	60.90	46,844	40.60	29.00	12.40
2021	75,472	27.40	8,405	23.70	23,431	25.70	26.00	9.00
2020	7,194	38.10	950	47.30	18,694	35.40	25.00	7.60
2019	81,372	59.50	7,569	56.90	9,684	57.50	26.80	10.80
2018	1,326	54.00	171	53.50	1,070	75.10	25.40	7.80
2017	48,086	96.20	3,688	96.00	17,832	33.80	29.50	13.00
2016	52,660	72.80	3,890	62.10	27,599	39.00	29.90	13.50
2015	47,547	74.60	3,447	66.50	73,193	33.90	30.20	13.80
2014	14,596	55.20	1,484	59.80	23,751	42.50	27.30	9.80
2013	40,921	41.90	4,703	39.80	16,738	24.70	26.40	8.70
2012	155,017	27.60	13,194	27.30	45,047	29.10	27.90	11.70
2011	75,069	49.50	5,837	49.70	33,292	48.20	28.80	12.90
2010	80,042	43.30	6,183	42.00	39,103	39.40	29.10	12.90
2009	336,547	48.30	21,879	40.60	18,275	53.20	30.30	15.40
2008	172,429	39.40	12,483	41.20	45,233	29.90	30.20	13.80
2007	277,250	31.80	23,966	32.00	113,880	61.10	28.20	11.60
2006	372,020	37.00	25,243	35.60	9,972	43.20	30.80	14.70
2005	227,171	37.60	19,354	36.10	33,837	39.10	29.30	11.70
2004	399,365	60.00	28,327	48.90	20,902	46.80	29.40	14.10
2003	163,552	48.00	12,089	45.30	8,354	79.60	29.20	13.50
2002	103,079	61.40	7,772	55.00	32,289	77.00	28.80	13.30
2001	68,797	37.60	7,642	34.80	3,866	55.00	26.50	9.00
2000	30,367	56.80	4,503	56.30	1,284	95.40	24.10	6.70
1999	33,795	56.30	3,111	48.80	474	99.90	26.90	10.90
1998	56,007	61.30	5,369	54.40	1,390	97.40	27.10	10.40
1997	123,240	62.30	11,786	65.20	7,806	73.60	26.10	10.50
1996	33,776	32.10	3,533	32.00	3,300	50.40	26.80	9.60
1995	100,323	60.00	15,125	62.10	11,695	31.80	23.60	6.60
1994	116,292	34.60	17,517	36.50	6,644	44.90	23.80	6.60
1993	75,674	52.60	18,779	57.30	19,845	47.90	20.60	4.00
1992	81,785	47.40	8,514	47.40	5,510	51.00	25.50	9.60
1991	122,985	59.50	22,606	42.30	1,192	60.80	18.70	5.40
1990	194,360	45.60	37,994	37.50	-	-	19.00	5.10
1989	62,695	37.30	18,094	40.30	12,847	100.60	18.00	3.50
1988	15,396	73.90	11,053	45.60	-	-	19.60	1.40
1987	157,784	64.70	23,698	62.80	-	-	22.00	6.70
1986	-	-	-	-	1,302	96.80	-	-
1985	22,405	76.10	18,121	56.70	15,431	100.80	11.30	1.20
1984	128,967	73.90	22,176	67.30	-	-	21.40	5.80

Table III.32 Grouper, Gag recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	-	-	-	-	-	-	-	_
1982	1,231	69.80	5,282	69.60	2,583	98.10	5.50	0.20
1981	53,332	102.40	23,261	102.40	17,894	99.40	14.40	2.30

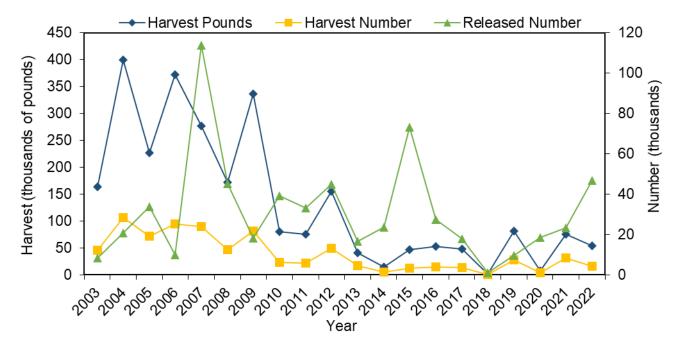


Figure III.27 Grouper, Gag recreational catch in North Carolina by year.

Table III.33 Grouper, Gag recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	53,621	66.60	4,319	60.90	46,844	40.60	28.60	12.40
Florida	30,139	46.80	2,318	60.30	35,822	36.70	26.80	9.60
South Carolina	67,080	75.30	4,047	67.90	83,347	31.30	32.10	16.60

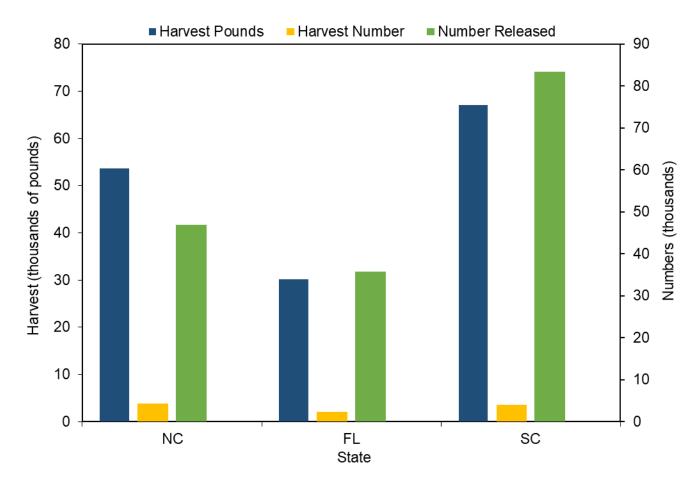


Figure III.28 Grouper, Gag recreational catch by state, 2022.

Table III.34 Grunt, White recreational catch in North Carolina by year.

.,	Harvest	PSE	Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	(lb)	Number	(num)	Number	(release)	Length (inches)	Weight (lb)
2022	20,257	36.40	19,597	45.30	52,092	44.90	11.00	1.00
2021	32,327	33.30	21,849	30.10	13,810	61.10	12.00	1.50
2020	82,979	47.60	54,012	44.80	32,186	53.60	12.20	1.50
2019	88,164	53.60	78,808	53.90	51,294	58.40	11.00	1.10
2018	16,551	34.00	11,486	33.20	6,551	38.90	12.00	1.40
2017	58,656	42.80	36,459	42.50	49,159	61.10	12.50	1.60
2016	85,197	40.80	49,190	38.90	72,791	66.60	12.70	1.70
2015	75,878	35.50	42,614	34.40	30,399	49.10	12.70	1.80
2014	85,941	59.80	48,030	58.90	4,406	51.60	13.40	1.80
2013	44,343	42.30	25,864	40.00	11,631	46.60	13.50	1.70
2012	169,755	30.30	102,155	30.90	19,332	65.00	12.90	1.70
2011	66,981	34.30	36,911	34.60	25,807	43.50	13.00	1.80
2010	81,365	46.70	52,062	47.60	14,384	44.20	12.40	1.60
2009	182,294	30.50	109,271	30.80	5,058	59.00	12.60	1.70
2008	302,233	32.90	204,033	32.30	17,906	82.90	12.40	1.50
2007	275,721	28.90	175,591	28.70	14,319	52.20	12.60	1.60
2006	235,456	40.60	151,440	39.20	31,998	71.00	12.60	1.60
2005	345,702	37.70	207,542	35.30	54,688	73.60	12.70	1.70
2004	264,518	30.60	184,996	29.30	45,327	70.60	11.90	1.40
2003	236,464	33.70	146,426	34.60	17,556	94.30	11.60	1.60
2002	337,495	31.50	167,107	29.80	-	-	13.40	2.00
2001	161,692	30.50	96,771	30.50	6,527	100.80	12.60	1.70
2000	9,287	85.20	10,024	84.30	525	99.40	10.20	0.90
1999	31,252	47.30	24,205	46.40	-	-	12.40	1.30
1998	35,638	63.80	21,867	55.00	6,237	65.00	13.10	1.60
1997	76,137	48.80	47,047	42.20	4,743	98.80	13.10	1.60
1996	77,026	33.90	59,115	32.30	4,334	71.60	12.30	1.30
1995	103,531	28.40	107,570	26.70	67,511	59.50	11.20	1.00
1994	390,128	25.90	374,511	25.30	91,513	81.10	11.60	1.00
1993	232,814	22.10	226,891	22.90	18,595	50.50	11.60	1.00
1992	162,891	25.00	103,421	23.90	44,852	47.20	12.40	1.60
1991	142,869	26.10	109,555	25.90	21,148	43.50	12.40	1.30
1990	1,043,097	82.10	619,517	77.00	-	-	12.80	1.70
1989	90,970	27.60	72,351	27.70	7,433	71.00	12.60	1.30
1988	41,990	59.10	56,397	43.90	2,964	80.80	14.20	0.70
1987	62,947	36.80	36,676	37.40	-	-	12.80	1.70
1986	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-
1984	196,511	87.50	191,040	74.60	-	-	12.00	1.00

Table III.34 Grunt, White recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	2,305	107.80	2,282	107.80	-	-	14.30	1.00
1982	513	114.10	140	114.10	-	-	15.70	3.70
1981	40,930	69.10	33,023	73.50	639	100.60	11.20	1.20

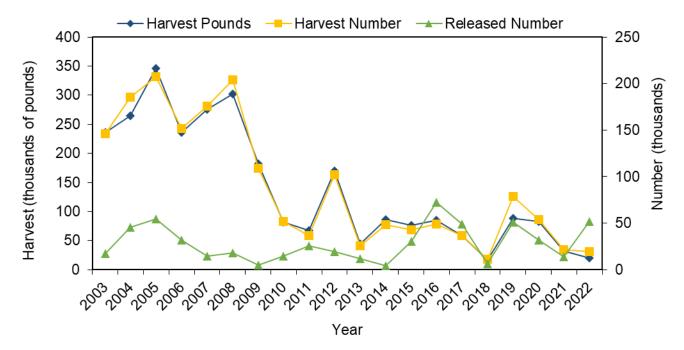


Figure III.29 Grunt, White recreational catch in North Carolina by year.

Table III.35 Grunt, White recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	20,257	36.40	19,597	45.30	52,092	44.90	10.60	1.00
Florida	171,174	32.10	281,394	27.70	303,645	43.40	9.40	0.70
Georgia	83	86.90	39	86.90	81,975	58.80	14.10	2.10
South Carolina	71,039	48.30	41,270	44.20	32,075	51.40	12.40	1.70

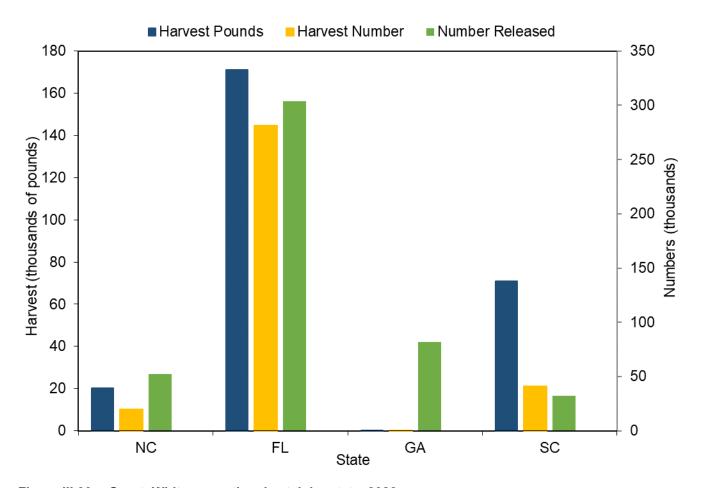


Figure III.30 Grunt, White recreational catch by state, 2022.

Table III.36 Kingfish, Gulf recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
2022	612,823	43.10	958,034	44.50	343,520	-	12.00	0.60
2021	341,573	29.70	436,241	28.60	1,339,862	-	12.00	0.80
2020	109,237	31.70	144,127	26.90	1,114,081	-	12.10	0.80
2019	440,502	70.40	730,866	72.00	1,965,756	-	11.10	0.60
2018	161,101	38.20	247,241	39.10	854,041	-	11.60	0.70
2017	271,422	30.10	364,215	27.00	1,091,051	-	12.10	0.70
2016	262,512	35.20	504,926	37.30	1,448,848	-	10.80	0.50
2015	372,465	29.40	589,899	28.10	1,031,454	-	11.20	0.60
2014	550,685	32.70	852,684	27.70	2,348,027	-	11.40	0.60
2013	479,276	22.50	888,648	21.10	1,864,788	-	10.40	0.50
2012	541,883	15.20	1,025,099	15.20	1,947,002	-	10.40	0.50
2011	336,462	26.10	453,644	23.90	841,224	-	11.90	0.70
2010	493,400	18.20	863,479	17.00	1,485,368	-	10.80	0.60
2009	397,010	31.30	706,957	30.00	1,094,812	-	10.20	0.60
2008	290,414	18.80	580,344	18.20	866,656	-	10.40	0.50
2007	207,483	37.80	254,403	31.80	481,080	-	12.00	0.80
2006	78,755	51.50	125,527	45.70	207,277	-	11.20	0.60
2005	126,239	45.20	249,866	48.40	418,836	-	9.90	0.50
2004	463,847	41.30	717,508	35.00	973,597	-	11.20	0.60
2003	95,117	23.70	181,630	22.90	591,299	-	10.40	0.50
2002	74,139	32.30	182,540	31.90	223,538	-	9.70	0.40
2001	76,862	30.30	145,004	31.50	73,634	-	10.50	0.50
2000	40,405	41.20	69,305	39.10	54,619	-	10.10	0.60
1999	95,232	44.00	179,229	39.70	289,397	-	10.00	0.50
1998	120,728	38.00	185,792	35.80	240,290	-	10.70	0.60
1997	72,318	24.10	152,589	23.30	91,727	-	9.60	0.50
1996	78,418	31.20	171,754	28.00	201,896	-	9.80	0.50
1995	69,275	44.60	115,661	40.60	132,066	-	11.10	0.60
1994	33,563	33.60	109,292	43.70	73,681	-	8.80	0.30
1993	39,444	35.80	72,245	32.30	37,840	-	10.60	0.50
1992	17,831	49.20	39,043	46.00	29,296	-	10.20	0.50
1991	84,655	35.30	174,380	33.40	87,321	-	9.60	0.50
1990	2,627	59.40	9,274	63.60	5,549	-	9.20	0.30
1989	24,423	63.20	34,710	73.10	308	-	11.30	0.70
1988	-	-	532	100.90	13,042	-	11.60	-
1987	58,702	66.30	109,963	54.90	15,768	-	9.90	0.50
1986	51,288	59.80	74,570	56.70	-	-	11.20	0.70
1985	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-
11/:								

¹ Kingfish releases are not recorded to species; released number was calculated by assigning a ratio of observed kingfish by species to reported kingfish genus release estimates. PSEs are not available for this analysis.

Table III.36 Kingfish, Gulf recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	34,468	101.40	120,072	101.40	-	-	11.80	0.30
1982	-	-	_	-	-	-	-	-
1981	-	-	-	-	_	-	-	-

¹Kingfish releases are not recorded to species; released number was calculated by assigning a ratio of observed kingfish by species to reported kingfish genus release estimates. PSEs are not available for this analysis.

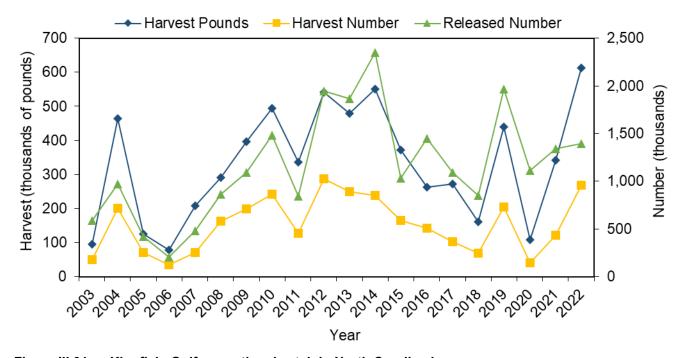


Figure III.31 Kingfish, Gulf recreational catch in North Carolina by year.

Table III.37 Kingfish, Gulf recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	612,823	43.10	958,034	44.50	11.50	0.60
Florida	179,001	38.20	314,078	38.20	11.70	0.60
Georgia	232	101.40	702	101.40	9.90	0.30
South Carolina	77	103.60	140	103.60	10.60	0.60

¹ Released kingfish are not always recorded to species level. Numbers released are not shown by state.

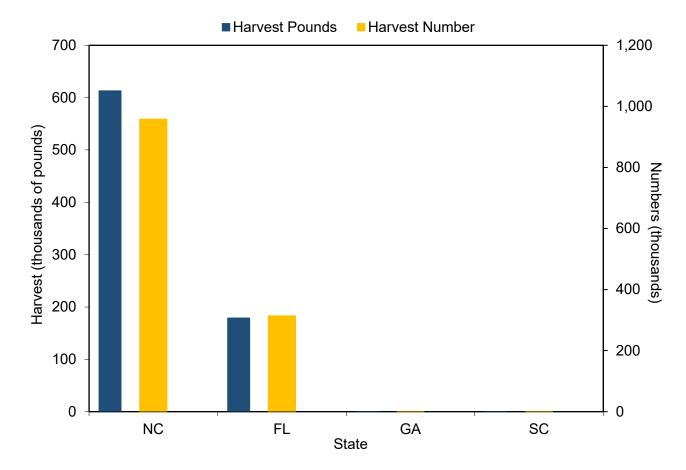


Figure III.32 Kingfish, Gulf recreational catch by state, 2022.

Table III.38 Kingfish, Northern recreational catch in North Carolina by year.

2022 253,673 62,10 452,182 64,10 453,073 - 11,00 0.60 2021 3,018 56,00 5,799 55,80 19,019 - 11,00 0.50 2020 8,508 76,80 14,421 77,00 32,504 - 11,60 0.60 2019 1,050 102,70 2,381 102,70 2,983 - 10,90 0.40 2018 5,808 68,10 16,413 62,20 32,834 - 9,20 0.40 2016 1,075 71,80 1,972 64,30 143,968 - 13,20 1.00 2016 1,075 71,80 1,972 64,30 8,656 - 10,80 0.50 2015 9,085 54,90 16,981 64,90 47,636 - 10,90 0.50 2014 2,775 70,50 5,219 74,50 35,775 - 11,20 0.50 2013 22,997 36,20 50,344 38,00 116,394 - 10,90 0.50 2014 2,775 70,50 32,40 33,775 - 11,20 0.50 2012 20,380 30,80 36,233 32,00 47,919 - 11,30 0.60 2014 9,818 34,30 139,736 29,40 183,329 - 12,20 0.70 2010 19,975 32,80 34,100 31,60 91,382 - 11,10 0.60 2008 32,458 46,00 61,460 48,10 61,811 - 10,10 0.50 2008 32,458 46,00 61,460 48,10 61,811 - 10,10 0.50 2006 34,827 34,10 181,801 30,10 340,846 - 12,10 0,70 2006 134,827 34,10 181,801 30,10 340,846 - 12,10 0,70 2005 23,100 35,00 44,175 38,20 67,243 - 11,10 0.60 2004 172,324 23,10 310,701 22,00 531,778 - 11,10 0.60 2004 172,324 23,10 310,701 22,00 531,778 - 11,10 0.60 2002 212,454 58,20 353,668 56,80 121,335 - 11,70 0.60 2001 287,564 24,70 420,398 24,50 160,446 - 12,00 0.70 2002 212,454 58,20 353,668 56,80 121,335 - 11,70 0.60 2004 172,324 23,10 310,701 22,00 531,778 - 11,10 0.60 2005 23,100 35,00 44,175 38,20 67,243 - 11,10 0.60 2006 349,766 30,20 372,700 27,80 283,462 - 1,80 0.70 2007 298,915 22,50 41,862 24,50 60,446 - 12,00 0.70 2008 33,504 41,333 33,334 30,00 159,132 - 11,10 0.60 2099 275,272 24,60 483,334	Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
2020 8,508 76.80 14,421 77.00 32,504 - 11.60 0.60 2019 1,050 102.70 2,381 102.70 2,983 - 10.90 0.40 2017 59,681 50.40 59,267 46.30 143,968 - 13.20 1.00 2016 1,075 71.80 1,972 64.30 8,656 - 10.80 0.50 2015 9,085 54.90 16,981 64.90 47,636 - 10.90 0.50 2014 2,775 70.50 52.19 74.50 35,775 - 11.20 0.50 2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 <td< td=""><td>2022</td><td>253,673</td><td>62.10</td><td>452,182</td><td>64.10</td><td>453,073</td><td>-</td><td></td><td></td></td<>	2022	253,673	62.10	452,182	64.10	453,073	-		
2019 1,050 102.70 2,381 102.70 2,983 - 10.90 0.40 2018 5,808 68.10 16.413 62.20 32,834 - 9.20 0.40 2016 1,075 71.80 1,972 64.30 8,656 - 10.80 0.50 2015 9,085 54.90 16,981 64.90 47,636 - 10.90 0.50 2014 2,775 70.50 52,219 74.50 35,775 - 11.20 0.50 2013 22,997 36.20 50,344 38.00 116,394 - 10.90 0.50 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2008 32,458 46.00 61,460 48.10 61,811 - 10.60 0.50 2005 <td< td=""><td>2021</td><td>3,018</td><td>56.00</td><td>5,799</td><td>55.80</td><td>19,019</td><td>-</td><td>11.00</td><td>0.50</td></td<>	2021	3,018	56.00	5,799	55.80	19,019	-	11.00	0.50
2018 5,808 68.10 16,413 62.20 32,834 - 9.20 0.40 2017 59,681 50.40 59,267 46.30 143,968 - 13.20 1.00 2015 9,085 54,90 16,981 64.90 47,636 - 10.90 0.50 2014 2,775 70.50 5,219 74.50 35,775 - 11.20 0.50 2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2005	2020	8,508	76.80	14,421	77.00	32,504	-	11.60	0.60
2017 59,681 50.40 59,267 46.30 143,968 - 13.20 1.00 2016 1,075 71.80 1,972 64.30 8,656 - 10.80 0.50 2014 2,775 70.50 5,219 74.50 35,775 - 11.20 0.50 2013 22,997 36.20 50,344 38.00 116,394 - 10.90 0.50 2012 20.380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 199,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2007	2019	1,050	102.70	2,381	102.70	2,983	-	10.90	0.40
2016 1,075 71.80 1,972 64.30 8,656 - 10.80 0.50 2015 9,085 54.90 16,981 64.90 47,636 - 10.90 0.50 2013 22,997 36.20 50,344 38.00 116,394 - 10.90 0.50 2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005	2018	5,808	68.10	16,413	62.20	32,834	-	9.20	0.40
2015 9,085 54.90 16,981 64.90 47,636 - 10.90 0.50 2014 2,775 70.50 5,219 74.50 35,775 - 11.20 0.50 2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,999 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005	2017	59,681	50.40	59,267	46.30	143,968	-	13.20	1.00
2014 2,775 70.50 5,219 74.50 35,775 - 11.20 0.50 2013 22,997 36.20 50,344 38.00 116,394 - 10.90 0.50 2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2005 23,100 35.00 44,175 38.20 67,243 - 11.10 0.60 2003 <td>2016</td> <td>1,075</td> <td>71.80</td> <td>1,972</td> <td>64.30</td> <td>8,656</td> <td>-</td> <td>10.80</td> <td>0.50</td>	2016	1,075	71.80	1,972	64.30	8,656	-	10.80	0.50
2013 22,997 36.20 50,344 38.00 116,394 - 10.90 0.50 2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 11.10 0.60 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61.811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.10 0.60 2004<	2015	9,085	54.90	16,981	64.90	47,636	-	10.90	0.50
2012 20,380 30.80 36,233 32.00 47,919 - 11.30 0.60 2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 200	2014	2,775	70.50	5,219	74.50	35,775	-		0.50
2011 95,818 34.30 139,736 29.40 183,329 - 12.20 0.70 2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70	2013	22,997	36.20	50,344	38.00	116,394	-	10.90	0.50
2010 19,975 32.80 34,100 31.60 91,382 - 11.10 0.60 2009 71,909 56.00 143,485 54,50 201,994 - 10.60 0.50 2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 <td< td=""><td>2012</td><td>20,380</td><td>30.80</td><td></td><td>32.00</td><td>47,919</td><td>-</td><td>11.30</td><td>0.60</td></td<>	2012	20,380	30.80		32.00	47,919	-	11.30	0.60
2009 71,909 56.00 143,485 54.50 201,994 - 10.60 0.50 2008 32,488 46.00 61,460 48.10 61,811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70	2011	95,818	34.30	139,736	29.40	183,329	-	12.20	0.70
2008 32,458 46.00 61,460 48.10 61,811 - 10.10 0.50 2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60	2010	19,975	32.80	34,100	31.60	91,382	-	11.10	0.60
2007 396,193 22.30 642,696 23.50 724,674 - 11.30 0.60 2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60	2009	71,909	56.00	143,485	54.50	201,994	-	10.60	0.50
2006 134,827 34.10 181,801 30.10 340,846 - 12.10 0.70 2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60	2008	32,458	46.00	61,460	48.10	61,811	-	10.10	0.50
2005 23,100 35.00 44,175 38.20 67,243 - 11.00 0.50 2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60	2007	396,193	22.30	642,696	23.50	724,674	-	11.30	0.60
2004 172,324 23.10 310,701 22.00 531,778 - 11.10 0.60 2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50	2006	134,827	34.10	181,801	30.10	340,846	-	12.10	0.70
2003 249,726 30.20 372,700 27.80 283,462 - 11.80 0.70 2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50	2005	23,100	35.00	44,175	38.20	67,243	-	11.00	0.50
2002 212,454 58.20 353,668 56.80 121,335 - 11.70 0.60 2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 -	2004	172,324	23.10	310,701	22.00	531,778	-	11.10	0.60
2001 287,564 24.70 420,398 24.50 160,446 - 12.00 0.70 2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 -	2003	249,726	30.20	372,700	27.80	283,462	-	11.80	0.70
2000 289,915 22.50 417,862 21.60 241,234 - 11.80 0.70 1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 -	2002	212,454	58.20	353,668	56.80	121,335	-	11.70	0.60
1999 238,571 27.00 383,272 28.90 299,884 - 10.70 0.60 1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1989 140,012 27.10 265,905 22.70 167,986 -	2001	287,564	24.70	420,398	24.50	160,446	-	12.00	0.70
1998 137,907 21.20 242,398 21.30 142,127 - 11.10 0.60 1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1988 132,736 36.10 481,341 25.20 120,946 -	2000	289,915	22.50	417,862	21.60	241,234	-	11.80	0.70
1997 469,791 25.30 842,731 30.00 159,132 - 11.10 0.60 1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - <	1999	238,571	27.00	383,272	28.90	299,884	-	10.70	0.60
1996 256,912 24.60 483,334 23.00 189,885 - 11.20 0.50 1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - <	1998	137,907	21.20	242,398	21.30	142,127	-	11.10	0.60
1995 212,476 19.70 411,338 23.70 309,653 - 10.60 0.50 1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - <	1997	469,791	25.30	842,731	30.00	159,132	-	11.10	0.60
1994 318,758 21.60 549,205 22.90 259,787 - 11.40 0.60 1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - <	1996	256,912	24.60	483,334	23.00	189,885	-	11.20	0.50
1993 373,909 20.80 549,598 21.60 155,593 - 11.10 0.70 1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1995	212,476	19.70	411,338	23.70	309,653	-	10.60	0.50
1992 438,409 30.90 647,146 31.90 288,167 - 11.40 0.70 1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1994	318,758	21.60	549,205	22.90	259,787	-	11.40	0.60
1991 420,489 20.90 742,323 19.80 243,595 - 10.50 0.60 1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1993	373,909	20.80	549,598	21.60	155,593	-	11.10	0.70
1990 275,272 42.40 570,434 46.60 75,686 - 10.80 0.50 1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1992	438,409	30.90	647,146	31.90	288,167	-	11.40	0.70
1989 140,012 27.10 265,905 22.70 167,986 - 10.00 0.50 1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1991	420,489	20.90	742,323	19.80	243,595	-	10.50	0.60
1988 132,736 36.10 481,341 25.20 120,946 - 10.80 0.30 1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1990	275,272	42.40	570,434	46.60	75,686	-	10.80	0.50
1987 133,461 55.90 223,179 44.70 23,463 - 10.60 0.60 1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40	1989	140,012	27.10	265,905	22.70	167,986	-	10.00	0.50
1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40		132,736	36.10	481,341	25.20	120,946	-	10.80	0.30
1986 174,515 53.90 397,269 66.10 332,833 - 10.00 0.40 1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40		133,461	55.90	223,179	44.70	23,463	-	10.60	0.60
1985 248,958 41.30 649,491 45.40 122,044 - 9.50 0.40		174,515	53.90	397,269	66.10		-	10.00	0.40
1004 233 054 50 90 553 712 50 90 156 110 10 20 0 40		248,958	41.30	649,491	45.40	122,044	-	9.50	0.40
1904 255,004 59.00 505,712 59.00 150,110 - 10.20 0.40	1984	233,054	59.80	553,712	59.80	156,118	-	10.20	0.40

¹ Kingfish releases are not recorded to species; released number was calculated by assigning a ratio of observed kingfish by species to reported kingfish genus release estimates. PSEs are not available for this analysis.

Table III.38 Kingfish, Northern recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	126,473	26.60	362,227	29.90	131,928	-	9.60	0.30
1982	517,808	30.40	1,456,919	27.60	152,822	-	9.00	0.40
1981	492,976	55.90	599,072	54.70	349,173	-	10.90	0.80

¹ Kingfish releases are not recorded to species; released number was calculated by assigning a ratio of observed kingfish by species to reported kingfish genus release estimates. PSEs are not available for this analysis.

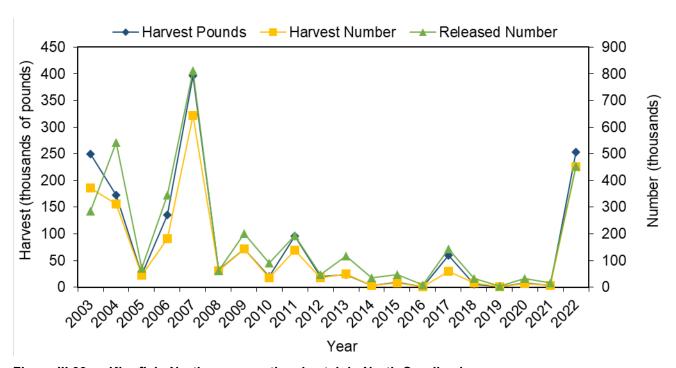


Figure III.33 Kingfish, Northern recreational catch in North Carolina by year.

Table III.39 Kingfish, Northern recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	253,673	62.10	452,182	64.10	11.20	0.60
Connecticut	4,883	100.80	3,164	100.80	14.40	1.50
Delaware	36,309	56.00	49,064	56.50	11.40	0.70
Florida	457	106.00	648	106.00	12.10	0.70
Massachusetts	82,532	94.90	51,654	88.40	14.30	1.60
New Jersey	77,844	97.00	119,997	97.70	11.10	0.60
New York	72,849	90.50	153,869	88.30	9.80	0.50
Rhode Island	1,000	78.70	792	76.70	13.20	1.30
Virginia	17	76.70	42	75.00	10.00	0.40

¹ Released kingfish are not always recorded to species level. Numbers released are not shown by state.

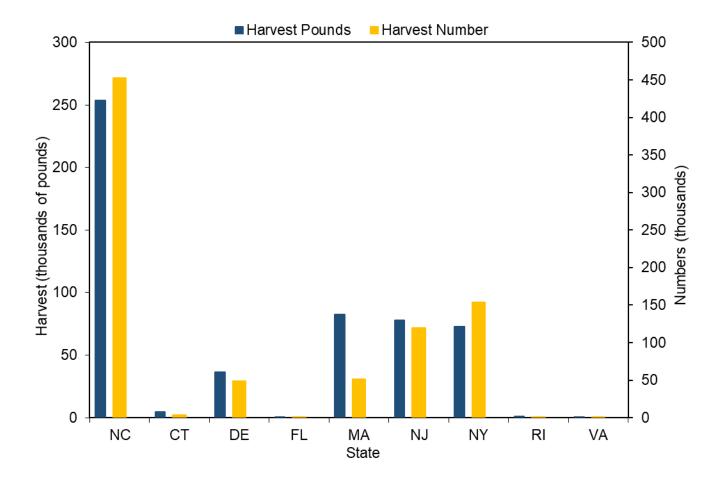


Figure III.34 Kingfish, Northern recreational catch by state, 2022.

Table III.40 Kingfish, Southern recreational catch in North Carolina by year.

Year	Harvest	PSE	Harvest	PSE	Released	PSE	Mean Length	Mean Weight
1 541	Pounds	(lb)	Number	(num)	Number ¹	(release) ¹	(inches)	(lb)
2022	764,545	26.30	1,392,621	26.70	1,925,053	-	11.00	0.50
2021	1,239,058	29.30	1,809,068	27.50	4,230,004	-	12.00	0.70
2020	334,824	19.80	553,204	19.30	2,314,505	-	11.00	0.60
2019	439,552	23.80	767,259	29.00	2,183,265	-	11.00	0.60
2018	312,829	20.00	497,134	19.80	1,293,857	-	12.00	0.60
2017	584,459	22.40	1,116,869	23.00	2,994,666	-	11.00	0.50
2016	771,534	26.50	1,422,584	26.80	2,765,072	-	11.00	0.50
2015	1,138,715	28.20	2,103,634	30.00	5,501,449	-	11.00	0.50
2014	1,544,862	46.30	2,477,383	44.10	4,003,170	-	12.00	0.60
2013	959,787	17.80	2,021,612	19.40	4,471,609	-	10.00	0.50
2012	695,368	15.40	1,255,035	14.60	1,670,729	-	11.00	0.60
2011	570,239	16.90	1,075,153	16.20	1,604,093	-	11.00	0.50
2010	1,003,198	16.20	1,660,599	15.10	2,888,773	-	11.00	0.60
2009	1,017,152	25.40	1,848,709	22.50	3,414,288	-	11.00	0.60
2008	623,055	17.90	1,127,632	17.60	1,416,166	-	11.00	0.60
2007	422,405	19.50	809,793	20.90	1,202,664	-	11.00	0.50
2006	511,690	27.20	1,110,253	28.80	1,960,933	-	11.00	0.50
2005	536,532	20.60	977,260	21.60	1,328,501	-	11.00	0.50
2004	625,932	22.50	969,985	23.20	1,023,307	-	11.00	0.60
2003	462,481	21.40	678,724	19.80	1,045,686	-	11.00	0.70
2002	595,860	21.50	913,852	21.00	623,815	-	12.00	0.70
2001	836,967	22.60	1,562,340	22.60	825,114	-	11.00	0.50
2000	1,287,295	19.70	1,961,242	17.80	1,648,043	-	11.00	0.70
1999	303,576	30.20	526,930	27.80	338,161	-	12.00	0.60
1998	179,739	20.80	309,630	22.10	216,917	-	11.00	0.60
1997	191,974	20.80	291,768	21.80	97,647	-	11.00	0.70
1996	442,030	53.40	818,201	53.50	268,505	-	11.00	0.50
1995	534,642	27.10	941,581	28.00	530,343	-	11.00	0.60
1994	336,757	21.90	717,391	21.30	375,427	-	10.00	0.50
1993	358,694	27.00	811,942	32.90	196,534	-	10.00	0.40
1992	473,074	37.30	1,014,172	38.00	365,828	-	10.00	0.50
1991	619,990	25.20	1,333,319	25.30	537,821	-	10.00	0.50
1990	730,594	29.40	1,491,941	27.60	746,283	-	10.00	0.50
1989	176,268	26.80	333,403	24.20	139,412	-	10.00	0.50
1988	767,747	51.10	2,364,330	33.20	361,760	-	10.00	0.30
1987	635,579	33.10	1,320,531	32.50	229,325	-	11.00	0.50
1986	557,581	47.50	1,332,830	45.90	1,090,924	-	10.00	0.40
1985	164,462	37.20	289,954	36.80	141,654	-	11.00	0.60
1984	131,531	31.80	359,602	30.70	11,955	-	10.00	0.40

¹ Kingfish releases are not recorded to species; released number was calculated by assigning a ratio of observed kingfish by species to reported kingfish genus release estimates. PSEs are not available for this analysis.

Table III.40 Kingfish, Southern recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	53,202	52.40	103,604	58.90	11,535	-	10.00	0.50
1982	119,582	94.30	289,561	92.90	128,818	-	9.00	0.40
1981	122,272	34.80	313,835	38.80	121,871	-	8.00	0.40

¹ Kingfish releases are not recorded to species; released number was calculated by assigning a ratio of observed kingfish by species to reported kingfish genus release estimates. PSEs are not available for this analysis.

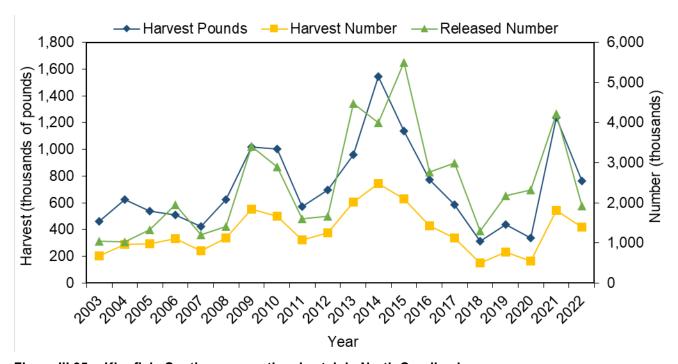


Figure III.35 Kingfish, Southern recreational catch in North Carolina by year.

Table III.41 Kingfish, Southern recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	764,545	26.30	1,392,621	26.70	11.00	0.50
Delaware	13,366	75.10	19,638	69.80	11.30	0.70
Florida	231,529	33.80	399,043	38.40	11.40	0.60
Georgia	806,880	20.90	1,605,490	22.10	10.60	0.50
Maryland	11,435	66.20	15,736	68.70	11.50	0.70
New Jersey	251,800	69.30	555,237	69.10	10.60	0.50
South Carolina	241,887	34.40	534,203	37.50	10.50	0.50
Virginia	394,855	20.50	798,471	20.40	10.50	0.50

¹ Released kingfish are not always recorded to species level. Numbers released are not shown by state.

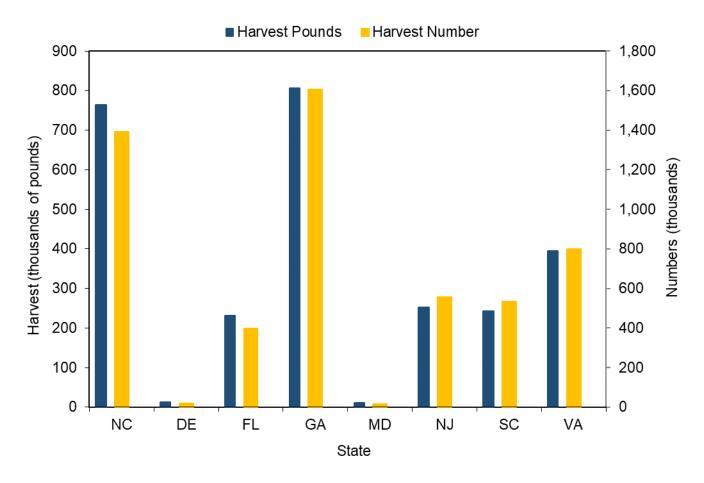


Figure III.36 Kingfish, Southern recreational catch by state, 2022.

Table III.42 Mackerel, King recreational catch in North Carolina by year.

Year Pounds (lb) Number (num) Number (release) Leftgh (lchches) 2022 375,164 43.10 38,512 31.80 12,996 45.90 32.00 9.70 2020 1,563,082 17.90 58,174 17.00 24,099 28.80 32.00 9.70 2020 1,376,229 20.30 146,423 20.20 155,593 31.80 31.60 9.40 2019 1,446,939 24.80 184,962 23.70 115,350 42.10 29.70 7.80 2018 1,018,459 30.10 102,675 19.00 75,614 32.60 30.30 9.90 2016 963,139 41.70 108,151 43.40 43.909 31.60 30.40 8.90 2015 1,168,255 52.50 95,705 37.20 16,877 52.40 33.30 12.20 2014 1,213,096 22.90 72,288 22.70 35,075 92.80 38.70 16		Homiost	PSE	Homiost	PSE	Dalagood	PSE	Mean	Mean
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2002 1,242,058 42.40 104,631 40.70 20,811 49.10 33.00 11.90 2001 2,046,022 16.20 145,290 12.80 12,381 41.80 34.50 14.10 2000 2,250,512 17.90 196,979 20.80 26,009 41.10 32.00 11.40 1999 1,034,465 19.50 104,483 18.60 120,296 34.90 31.60 9.90 1998 1,163,739 18.20 112,383 17.50 9,155 43.00 31.50 10.40 1997 1,797,936 14.40 206,601 13.10 57,739 25.50 30.00 8.70 1996 1,097,226 19.60 119,418 23.20 15,465 48.80 31.00 9.20 1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60<	2004	2,276,035		191,584	17.70	184,384			
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2000 2,250,512 17.90 196,979 20.80 26,009 41.10 32.00 11.40 1999 1,034,465 19.50 104,483 18.60 120,296 34.90 31.60 9.90 1998 1,163,739 18.20 112,383 17.50 9,155 43.00 31.50 10.40 1997 1,797,936 14.40 206,601 13.10 57,739 25.50 30.00 8.70 1996 1,097,226 19.60 119,418 23.20 15,465 48.80 31.00 9.20 1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 <td>2002</td> <td>1,242,058</td> <td></td> <td>104,631</td> <td></td> <td>20,811</td> <td>49.10</td> <td>33.00</td> <td>11.90</td>	2002	1,242,058		104,631		20,811	49.10	33.00	11.90
1999 1,034,465 19.50 104,483 18.60 120,296 34.90 31.60 9.90 1998 1,163,739 18.20 112,383 17.50 9,155 43.00 31.50 10.40 1997 1,797,936 14.40 206,601 13.10 57,739 25.50 30.00 8.70 1996 1,097,226 19.60 119,418 23.20 15,465 48.80 31.00 9.20 1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30	2001	2,046,022	16.20	145,290	12.80	12,381	41.80	34.50	14.10
1998 1,163,739 18.20 112,383 17.50 9,155 43.00 31.50 10.40 1997 1,797,936 14.40 206,601 13.10 57,739 25.50 30.00 8.70 1996 1,097,226 19.60 119,418 23.20 15,465 48.80 31.00 9.20 1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70	2000	2,250,512	17.90	196,979	20.80	26,009	41.10	32.00	
1997 1,797,936 14.40 206,601 13.10 57,739 25.50 30.00 8.70 1996 1,097,226 19.60 119,418 23.20 15,465 48.80 31.00 9.20 1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90	1999	1,034,465	19.50	104,483	18.60	120,296	34.90	31.60	9.90
1996 1,097,226 19.60 119,418 23.20 15,465 48.80 31.00 9.20 1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20	1998	1,163,739	18.20	112,383	17.50	9,155	43.00	31.50	10.40
1995 1,240,901 14.50 135,796 14.30 7,544 43.50 30.70 9.10 1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30	1997	1,797,936	14.40	206,601	13.10	57,739	25.50	30.00	8.70
1994 1,709,740 17.40 177,608 20.70 5,792 55.80 31.60 9.60 1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70	1996	1,097,226	19.60	119,418	23.20	15,465	48.80	31.00	9.20
1993 1,224,744 16.20 121,704 15.70 3,607 68.60 31.70 10.10 1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9	1995		14.50	135,796	14.30	7,544	43.50	30.70	9.10
1992 1,435,826 15.20 165,568 13.80 2,933 39.60 30.20 8.70 1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90	1994	1,709,740	17.40	177,608	20.70	5,792	55.80	31.60	9.60
1991 2,590,951 20.40 258,306 17.60 8,856 47.90 31.30 10.00 1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90	1993	1,224,744	16.20	121,704	15.70	3,607	68.60	31.70	10.10
1990 2,502,999 25.90 273,144 22.30 4,295 71.10 29.60 9.20 1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90	1992	1,435,826	15.20	165,568	13.80	2,933	39.60	30.20	8.70
1989 1,163,894 15.40 113,376 16.60 5,225 59.60 31.70 10.30 1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90	1991	2,590,951	20.40	258,306	17.60	8,856	47.90	31.30	10.00
1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90	1990	2,502,999	25.90	273,144	22.30	4,295	71.10	29.60	9.20
1988 521,744 26.70 162,764 15.10 8,186 50.40 30.90 3.20 1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90	1989	1,163,894	15.40	113,376	16.60	5,225	59.60	31.70	10.30
1987 1,767,178 23.90 199,521 18.10 13,526 80.60 29.20 8.90 1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90		521,744	26.70	162,764	15.10	8,186	50.40	30.90	3.20
1986 1,593,772 31.20 173,390 28.90 102 103.80 32.30 9.20 1985 2,695,124 42.80 273,004 41.70 - - 30.00 9.90		1,767,178	23.90	199,521	18.10		80.60	29.20	8.90
1985 2,695,124 42.80 273,004 41.70 30.00 9.90									
·		2,695,124	42.80	273,004	41.70	-	-	30.00	9.90
1,220,020 00.00 101,020 00.00	1984	1,228,325	39.80	131,026	36.80	-	-	30.90	9.40

Table III.42 Mackerel, King recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	738,215	48.30	115,637	47.50	-	-	28.80	6.40
1982	1,477,554	24.80	177,616	26.40	-	-	29.30	8.30
1981	2,040,176	50.00	191,655	53.80	-	-	30.90	10.60

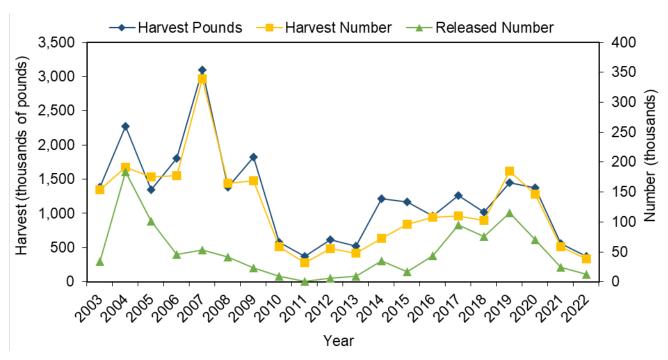


Figure III.37 Mackerel, King recreational catch in North Carolina by year.

Table III.43 Mackerel, King recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	375,164	43.10	38,512	31.80	12,996	45.90	31.80	9.70
Florida	3,128,326	13.40	310,469	14.40	69,835	27.30	31.60	9.70
Georgia	325,319	58.30	29,838	64.90	7,294	94.60	34.70	10.90
South Carolina	409,757	52.60	18,953	50.30	23,605	68.80	41.90	21.60
Virginia	18	106.80	10	77.00	0	-	21.40	2.80

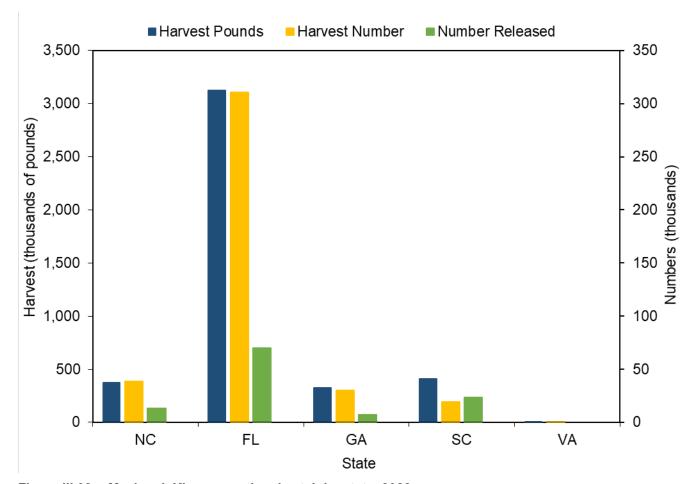


Figure III.38 Mackerel, King recreational catch by state, 2022.

Table III.44 Mackerel, Spanish recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	1,841,527	15.60	1,898,755	16.90	2,268,283	29.70	14.00	1.00
2021	1,894,535	16.80	1,312,929	14.80	1,294,525	19.50	16.00	1.40
2020	1,843,314	14.50	1,286,131	13.60	1,267,210	26.70	15.60	1.40
2019	1,694,247	22.40	1,478,890	19.60	1,340,366	21.80	15.00	1.10
2018	1,156,702	14.50	1,012,889	13.90	1,019,418	30.40	15.00	1.10
2017	1,094,778	18.30	995,706	18.00	688,062	21.40	14.80	1.10
2016	907,400	16.30	918,352	16.40	546,950	19.50	14.30	1.00
2015	981,867	15.60	835,011	14.30	514,714	17.70	14.70	1.20
2014	1,193,442	14.70	1,028,925	15.20	814,064	21.20	14.90	1.20
2013	1,242,029	16.50	994,599	15.20	685,692	26.10	15.10	1.20
2012	1,327,350	10.40	995,852	9.60	591,792	16.40	15.10	1.30
2011	1,100,110	20.00	854,554	15.00	479,586	15.50	15.00	1.30
2010	1,116,099	17.50	927,116	22.00	701,634	33.00	15.20	1.20
2009	2,155,692	19.40	1,480,931	13.50	752,806	20.70	15.80	1.50
2008	1,234,030	15.20	1,013,980	13.10	806,280	18.50	15.20	1.20
2007	799,263	16.50	604,518	15.20	340,027	16.50	15.40	1.30
2006	624,488	20.50	439,736	15.70	165,098	22.50	16.00	1.40
2005	526,054	16.60	561,073	16.10	303,641	19.90	14.60	0.90
2004	819,978	20.00	534,720	18.70	317,189	26.90	16.70	1.50
2003	641,024	14.50	540,399	15.30	266,887	17.10	14.80	1.20
2002	987,238	16.10	787,125	17.10	309,546	16.90	15.30	1.30
2001	1,155,788	24.70	942,500	25.00	338,918	37.00	15.50	1.20
2000	1,175,351	19.30	1,102,777	17.70	451,910	19.20	15.20	1.10
1999	1,035,943	16.60	891,001	14.70	253,317	17.00	14.80	1.20
1998	488,951	13.40	374,804	13.80	145,746	20.90	15.30	1.30
1997	1,444,907	13.10	956,589	12.50	304,629	38.70	16.00	1.50
1996	709,589	17.40	533,333	14.90	184,518	16.80	15.90	1.30
1995	492,096	14.30	397,190	12.90	239,972	17.60	14.90	1.20
1994	724,589	11.20	641,980	11.00	292,919	13.40	15.00	1.10
1993	1,107,430	16.60	720,907	14.80	104,879	21.20	15.90	1.50
1992	1,171,718	10.70	879,444	10.70	250,614	16.30	15.10	1.30
1991	1,695,569	11.60	1,119,245	15.90	238,694	20.80	14.90	1.50
1990	1,462,072	14.10	1,011,861	13.60	111,977	22.80	15.50	1.40
1989	1,594,616	26.00	1,374,008	33.50	140,141	44.20	14.70	1.20
1988	580,007	25.20	1,375,328	14.20	15,891	33.90	16.70	0.40
1987	1,323,352	18.10	974,840	22.20	35,412	39.90	14.90	1.40
1986	1,055,730	37.80	872,052	39.20	442,501	85.70	15.10	1.20
1985	819,680	40.70	441,051	38.90	36,482	95.40	18.50	1.90
1984	807,486	49.10	559,885	48.90	4,374	100.60	14.70	1.40

Table III.44 Mackerel, Spanish recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	25,641	47.30	10,275	47.00	-	-	19.70	2.50
1982	1,411,461	53.60	889,793	55.50	-	-	15.50	1.60
1981	853,597	74.00	344,209	70.80	2,967	95.80	19.10	2.50

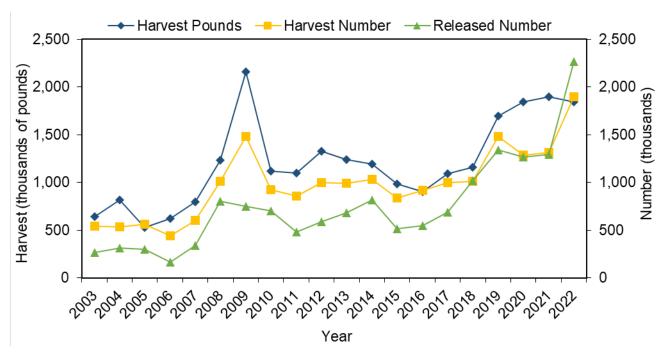


Figure III.39 Mackerel, Spanish recreational catch in North Carolina by year.

Table III.45 Mackerel, Spanish recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	1,841,527	15.60	1,898,755	16.90	2,268,283	29.70	14.10	1.00
Delaware	19,301	80.50	16,213	80.50	0	-	15.20	1.20
Florida	689,100	30.40	555,443	34.00	432,592	44.10	16.00	1.40
Georgia	39,885	69.10	12,583	60.00	38,885	67.20	21.30	3.20
Maryland	150,029	34.50	70,582	36.70	2,894	53.20	17.60	2.10
New Jersey	17,193	78.10	11,865	78.10	18,224	62.50	15.90	1.40
New York	1,978	101.10	1,435	101.10	1,458	100.90	14.70	1.40
Rhode Island	782	84.40	414	84.40	503	101.40	17.80	1.90
South Carolina	773,139	29.70	1,060,999	29.90	1,401,659	30.00	13.20	0.70
Virginia	489,083	60.90	380,446	59.30	188,201	51.00	15.20	1.30

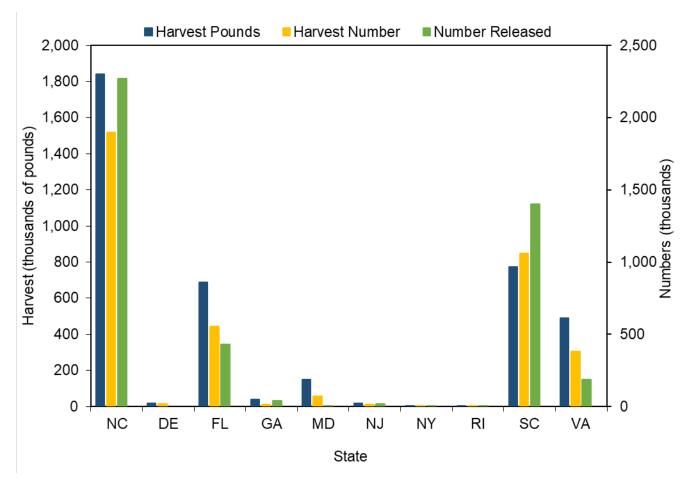


Figure III.40 Spanish Mackerel recreational catch by state, 2022.

Table III.46 Perch, Silver recreational catch in North Carolina by year.

	11- (11	DOE	D-I-	505	Mean	Mean
Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Length	Weight
				,		· · ·	(inches)	(lb)
2022	776	51.50	4,432	59.40	157,214	40.00	7.30	0.20
2021	34,609	89.90	156,481	90.20	135,156	32.30	7.00	0.20
2020	3,838	54.00	21,049	55.60	85,350	30.70	7.10	0.20
2019	7,520	39.90	32,444	49.20	244,868	29.60	6.90	0.20
2018	1,594	53.70	6,595	54.90	84,721	38.80	7.40	0.20
2017	24,532	45.10	133,676	44.20	441,052	36.70	7.30	0.20
2016	11,275	47.50	55,040	46.50	499,616	25.70	7.50	0.20
2015	8,832	64.90	41,707	64.70	98,138	36.20	7.60	0.20
2014	19,567	56.00	91,219	57.80	561,115	55.50	7.10	0.20
2013	10,662	37.10	60,246	39.70	227,334	32.20	6.70	0.20
2012	17,358	40.80	115,122	46.60	297,961	22.80	7.10	0.20
2011	25,729	53.30	112,595	45.30	219,913	24.80	7.20	0.20
2010	7,800	43.90	28,366	43.70	337,774	31.60	7.60	0.30
2009	28,241	55.50	92,414	52.10	479,403	61.30	8.00	0.30
2008	5,911	43.80	28,028	42.40	101,691	42.20	8.00	0.20
2007	64,738	60.30	372,042	58.90	1,288,217	26.30	6.50	0.20
2006	17,550	43.30	96,074	42.30	469,055	29.50	7.40	0.20
2005	25,698	71.10	80,394	74.80	158,168	45.20	8.70	0.30
2004	5,642	35.60	23,639	35.30	124,740	48.80	8.10	0.20
2003	43,470	58.70	182,504	59.90	87,483	34.40	8.00	0.20
2002	15,470	52.90	73,418	51.00	99,484	37.20	7.20	0.20
2001	14,117	41.00	51,060	40.10	107,180	34.50	7.80	0.30
2000	39,011	51.70	176,755	55.20	528,300	66.80	8.00	0.20
1999	50,588	33.20	246,919	35.40	571,776	28.80	7.40	0.20
1998	46,470	27.50	175,440	29.50	217,906	39.20	7.90	0.30
1997	55,458	29.60	224,084	31.60	258,693	35.20	8.00	0.20
1996	51,531	23.40	230,966	24.10	307,523	21.00	8.00	0.20
1995	49,943	23.80	225,251	24.50	291,561	23.10	8.10	0.20
1994	89,842	42.90	403,651	43.30	471,018	28.70	7.60	0.20
1993	36,155	38.20	136,122	38.50	236,460	33.60	7.40	0.30
1992	152,844	78.20	695,140	79.60	788,602	71.20	7.40	0.20
1991	94,995	34.70	374,812	32.90	230,575	36.20	7.20	0.30
1990	61,496	32.60	246,418	34.80	138,308	45.30	7.90	0.20
1989	108,807	45.80	433,885	45.90	64,075	56.10	7.40	0.30
1988	2,167	45.60	111,393	56.70	13,867	46.20	7.70	0.00
1987	17,430	49.30	86,348	53.30	292,245	77.20	7.10	0.20
1986	-	_	-	-	-	-	_	-
1985	-	-	-	-	-	-	-	-
1984	1,660	104.60	6,453	104.60	-	-	6.90	0.30

Table III.46 Perch, Silver recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	-	-	-	-	4,883	100.50	-	-
1982	29,496	53.00	133,240	51.80	9,143	96.40	6.60	0.20
1981	110,675	77.40	361,893	75.40	293,832	100.10	7.00	0.30

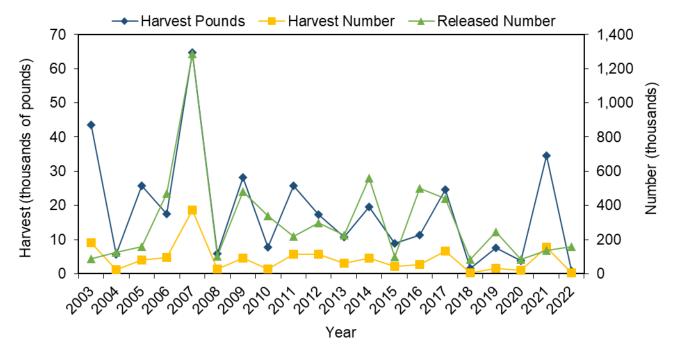


Figure III.41 Perch, Silver recreational catch in North Carolina by year.

Table III.47 Perch, Silver recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	776	51.5	4,432	59.4	157,214	40.0	7.3	0.2
Florida	12,285	79.0	58,439	83.0	177,998	65.0	7.3	0.2
Georgia	9,918	54.4	60,747	66.9	655,710	25.1	6.8	0.2
Maryland	585	100.6	2,654	100.6	773	97.8	7.6	0.2
South Carolina	8,838	82.3	39,147	84.0	131,088	68.3	7.6	0.2
Virginia	24,856	33.8	206,142	33.8	20,977	83.9	6.4	0.1

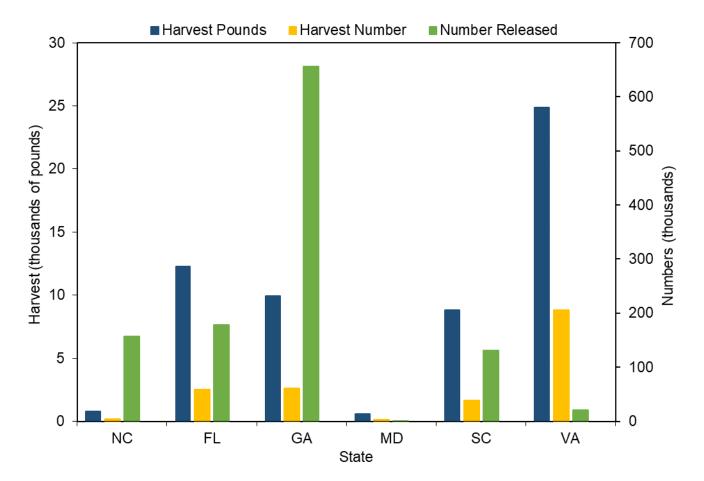


Figure III.42 Perch, Silver recreational catch by state, 2022.

Table III.48 Pigfish recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	448,404	32.00	1,190,673	31.20	2,179,940	22.20	8.00	0.40
2021	119,332	19.80	301,906	16.80	1,149,108	16.40	8.00	0.40
2020	147,533	23.10	454,825	22.10	855,547	17.50	7.90	0.30
2019	146,570	21.00	432,005	21.90	1,639,294	30.60	8.00	0.30
2018	163,686	21.40	418,174	21.50	1,385,059	15.40	8.30	0.40
2017	218,003	27.80	656,096	27.60	2,025,949	20.30	8.00	0.30
2016	443,062	23.70	1,316,198	22.80	2,452,668	14.20	8.00	0.30
2015	567,572	24.50	1,593,393	24.60	3,332,936	13.60	8.20	0.40
2014	354,667	24.10	1,278,934	26.70	2,764,971	16.80	7.20	0.30
2013	293,508	15.20	905,659	16.10	1,914,017	13.10	7.90	0.30
2012	417,432	18.30	1,098,940	18.80	1,793,064	9.80	7.90	0.40
2011	268,432	19.20	853,482	18.40	2,316,470	11.70	7.80	0.30
2010	180,599	18.20	552,530	17.80	2,394,225	13.30	7.80	0.30
2009	443,288	64.80	1,074,061	61.20	1,857,462	15.90	8.30	0.40
2008	141,247	24.00	478,273	21.60	1,502,518	23.50	7.80	0.30
2007	230,770	26.60	719,365	25.60	1,430,793	18.50	8.10	0.30
2006	265,398	23.60	662,750	23.80	968,477	19.10	8.20	0.40
2005	576,835	48.10	1,160,195	42.00	1,161,855	20.60	8.80	0.50
2004	282,523	25.30	696,142	26.10	1,739,120	16.90	8.90	0.40
2003	602,742	20.50	1,537,595	20.20	1,638,238	12.70	8.40	0.40
2002	361,066	39.50	1,039,007	32.80	1,363,433	25.00	8.20	0.30
2001	337,779	23.50	975,513	27.30	1,273,575	16.90	8.10	0.30
2000	638,461	42.70	1,381,170	42.30	1,511,814	12.10	8.60	0.50
1999	431,807	27.60	1,215,290	29.10	1,429,091	14.60	8.20	0.40
1998	417,500	20.60	1,105,932	17.80	1,467,194	11.00	8.10	0.40
1997	915,829	39.70	1,927,079	25.40	1,624,440	11.60	8.90	0.50
1996	531,526	34.60	1,205,209	14.40	1,687,914	11.70	8.60	0.40
1995	540,808	34.30	1,315,875	27.50	1,250,657	14.20	8.90	0.40
1994	288,078	21.80	986,517	20.30	1,437,191	12.70	7.90	0.30
1993	337,334	23.20	991,706	20.50	689,289	19.50	7.60	0.30
1992	454,908	21.30	1,223,061	19.60	1,047,346	21.60	8.10	0.40
1991	216,657	22.10	700,006	22.30	768,548	20.80	7.70	0.30
1990	370,588	36.90	1,204,166	37.80	614,860	22.00	7.40	0.30
1989	502,369	20.80	1,484,283	18.50	868,646	23.60	7.90	0.30
1988	212,347	29.40	2,159,214	21.00	1,314,408	20.60	9.90	0.10
1987	202,623	18.40	697,469	20.30	1,315,829	33.10	7.60	0.30
1986	70,893	24.20	291,274	21.80	361,666	45.70	7.60	0.30
1985	370,956	57.40	1,124,337	46.90	594,358	42.90	8.00	0.30
1984	90,817	27.80	388,380	27.80	316,711	32.50	7.20	0.20

Table III.48 Pigfish recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	341,084	47.20	1,501,731	42.30	626,674	42.30	7.00	0.20
1982	91,970	29.70	332,049	27.40	314,248	41.20	7.10	0.30
1981	765,505	70.80	1,747,773	68.70	805,724	53.80	7.80	0.40

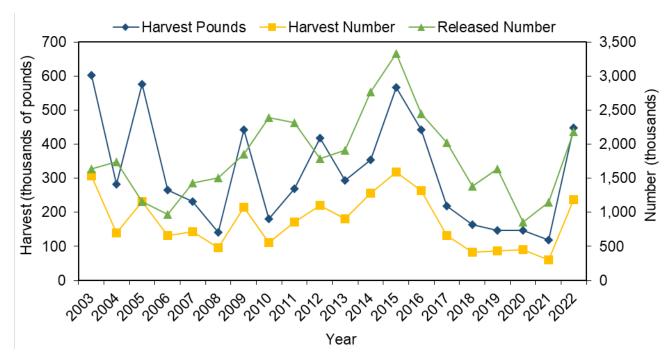


Figure III.43 Pigfish recreational catch in North Carolina by year.

Table III.49 Pigfish recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	448,404	32.00	1,190,673	31.20	2,179,940	22.20	8.20	0.40
Florida	55,953	58.10	158,331	55.10	117,572	40.80	7.80	0.40
Georgia	15,392	43.20	34,224	35.90	129,628	40.30	8.60	0.40
New Jersey	1,664	100.20	5,031	100.20	0	-	7.50	0.30
South Carolina	9,518	46.40	47,172	65.20	415,389	26.70	6.10	0.20
Virginia	24,372	76.50	75,563	76.60	612,460	44.40	7.40	0.30

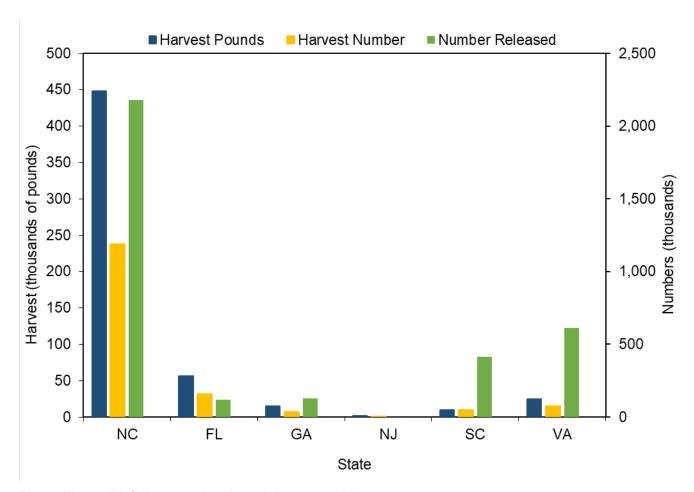


Figure III.44 Pigfish recreational catch by state, 2022.

Table III.50 Pinfish recreational catch in North Carolina by year.

Year	Harvest	PSE	Harvest	PSE	Released	PSE	Mean Length	Mean Weight
Tour	Pounds	(lb)	Number	(num)	Number	(release)	(inches)	(lb)
2022	448,404	32.00	1,190,673	31.20	2,179,940	22.20	8.00	0.40
2021	167,331	25.30	1,079,719	26.10	7,778,171	11.30	6.00	0.20
2020	170,160	33.60	869,751	30.30	6,926,966	12.30	6.10	0.20
2019	217,718	24.20	955,550	24.70	9,076,843	11.10	6.60	0.20
2018	188,046	18.60	886,712	18.70	9,646,310	10.70	6.40	0.20
2017	283,455	23.70	917,956	24.30	13,677,930	16.80	6.90	0.30
2016	246,720	19.70	1,236,741	19.90	16,905,448	13.60	6.40	0.20
2015	449,239	24.50	1,597,032	20.60	14,915,393	11.40	6.80	0.30
2014	281,547	15.80	1,453,062	17.20	19,323,896	10.70	6.10	0.20
2013	269,250	17.00	1,385,301	15.80	10,455,850	9.40	6.50	0.20
2012	165,384	13.90	1,015,905	14.60	11,864,052	8.70	5.70	0.20
2011	159,057	16.50	836,412	17.00	8,823,604	9.40	6.40	0.20
2010	122,854	14.30	757,425	14.80	10,754,559	8.60	6.00	0.20
2009	124,101	21.90	597,710	21.10	7,795,965	11.50	6.40	0.20
2008	142,016	21.20	640,886	22.50	6,799,842	10.60	6.60	0.20
2007	58,827	28.00	266,392	28.20	6,526,964	11.00	6.60	0.20
2006	94,334	25.10	435,252	28.20	9,116,690	15.10	7.00	0.20
2005	78,975	23.10	341,742	23.30	4,732,265	13.10	6.90	0.20
2004	140,151	53.10	593,170	51.90	7,921,980	11.30	6.30	0.20
2003	292,269	21.50	907,567	20.40	10,849,405	11.80	7.30	0.30
2002	208,331	20.50	935,556	20.60	11,286,432	11.50	6.90	0.20
2001	343,875	26.30	1,184,602	24.00	8,765,316	12.40	7.20	0.30
2000	507,292	25.60	1,538,661	23.70	8,768,301	9.80	7.10	0.30
1999	485,764	27.30	1,788,768	29.00	9,948,280	15.10	7.60	0.30
1998	198,105	17.60	745,818	18.30	10,298,769	11.50	7.30	0.30
1997	384,304	26.30	1,433,455	24.40	8,028,672	10.00	7.30	0.30
1996	312,611	19.40	1,153,500	20.30	5,918,281	11.10	7.70	0.30
1995	290,527	16.70	1,284,073	15.80	5,874,274	9.50	6.80	0.20
1994	234,871	18.00	839,191	14.80	4,554,486	8.70	7.30	0.30
1993	192,454	26.90	820,890	27.70	3,768,582	12.40	7.20	0.20
1992	306,380	18.60	1,279,980	19.70	5,201,693	14.80	6.40	0.20
1991	457,184	16.30	1,681,166	15.50	5,022,683	16.00	7.10	0.30
1990	269,299	31.20	1,088,540	35.40	1,767,177	17.90	6.90	0.20
1989	363,941	18.80	1,669,146	19.20	3,222,232	21.50	7.10	0.20
1988	39,987	43.40	1,003,998	22.50	2,164,666	17.90	7.80	0.00
1987	272,553	24.70	1,032,230	26.80	2,460,863	22.90	7.10	0.30
1986	441,510	33.20	2,027,283	32.40	1,521,360	27.50	7.10	0.20
1985	241,812	26.00	1,010,387	27.00	2,932,965	25.00	6.60	0.20
1984	200,568	43.30	890,149	42.80	552,524	43.30	6.30	0.20

Table III.50 Pinfish recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	81,875	31.00	390,949	31.90	208,494	43.60	6.60	0.20
1982	161,258	31.40	708,080	32.30	845,785	65.80	6.00	0.20
1981	49,621	47.60	209,529	49.70	608,999	36.50	6.00	0.20

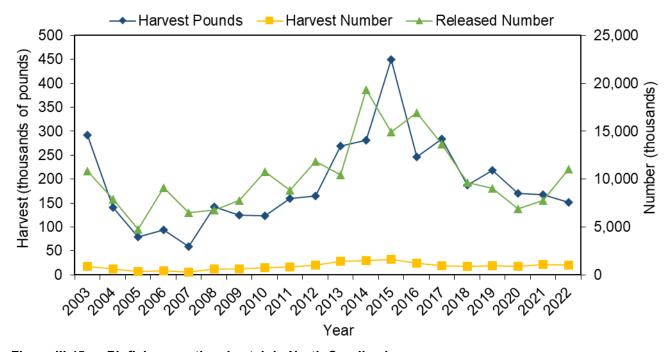


Figure III.45 Pinfish recreational catch in North Carolina by year.

Table III.51 Pinfish recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	151,153	25.40	1,016,021	25.00	11,083,511	13.30	6.30	0.10
Delaware	199	103.10	1,810	103.10	1,407	66.10	5.60	0.10
Florida	280,348	34.50	688,820	35.90	560,418	26.30	6.60	0.20
Georgia	4,362	57.60	22,270	62.90	349,707	44.30	6.20	0.20
New Jersey	90	102.30	812	102.30	356	80.70	5.60	0.10
South Carolina	55,893	40.20	276,625	31.40	3,059,652	21.60	6.20	0.20
Virginia	127	76.90	1,110	80.00	101,039	63.50	5.60	0.10

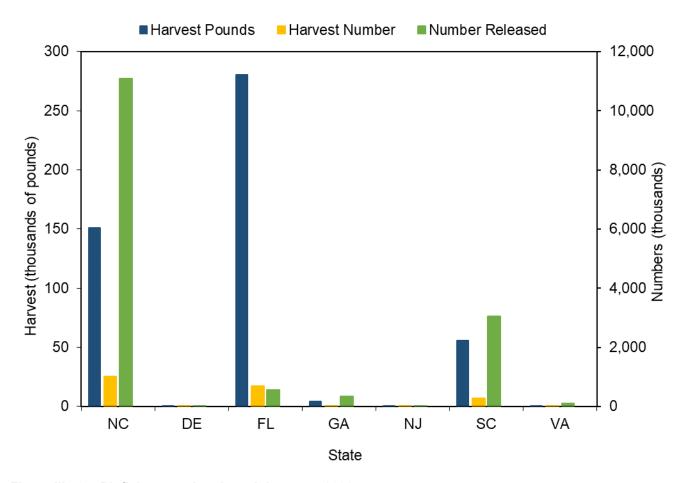


Figure III.46 Pinfish recreational catch by state, 2022.

Table III.52 Pompano, Florida recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	105,344	44.40	584,682	45.40	1,724,601	30.10	6.00	0.20
2021	218,191	43.50	348,053	36.20	1,153,404	27.00	8.00	0.60
2020	406,980	59.00	441,569	35.90	832,361	28.00	9.30	0.90
2019	769,603	46.10	1,734,862	50.30	1,668,678	35.00	7.80	0.40
2018	245,670	42.20	318,702	37.40	1,267,505	22.90	8.70	0.80
2017	290,660	54.50	730,412	54.40	1,681,692	31.70	7.40	0.40
2016	258,769	55.20	411,634	42.70	1,446,589	27.20	8.30	0.60
2015	306,213	42.80	722,558	36.00	883,312	25.90	7.10	0.40
2014	360,398	33.50	646,308	33.00	1,112,888	21.80	8.40	0.60
2013	735,833	21.40	1,978,916	25.30	2,967,947	20.80	7.30	0.40
2012	261,933	21.60	479,495	16.90	1,079,328	19.20	8.40	0.50
2011	275,846	17.60	698,273	18.40	1,421,287	17.10	7.50	0.40
2010	179,641	17.60	452,467	19.30	1,099,167	22.50	7.30	0.40
2009	257,813	20.90	580,096	20.60	755,251	18.80	8.00	0.40
2008	204,250	23.40	404,194	21.50	841,824	21.30	7.90	0.50
2007	121,883	23.80	259,331	27.40	757,063	22.90	8.20	0.50
2006	121,883	35.10	247,766	30.60	1,194,051	36.20	9.30	0.50
2005	211,710	32.80	407,705	26.50	719,238	26.70	7.90	0.50
2004	518,316	23.40	1,108,124	24.70	941,805	21.30	8.00	0.50
2003	483,289	21.60	770,738	24.90	946,984	31.70	8.30	0.60
2002	540,521	44.80	824,902	40.30	296,537	25.10	8.80	0.70
2001	236,463	39.70	684,843	38.20	611,086	35.00	7.60	0.30
2000	248,162	22.50	917,597	21.70	573,935	24.30	6.90	0.30
1999	118,669	35.20	279,252	31.50	134,019	18.10	8.70	0.40
1998	140,912	43.40	315,797	45.10	179,824	27.10	8.30	0.40
1997	106,688	21.70	191,428	21.70	180,314	25.10	8.40	0.60
1996	51,423	21.50	114,391	19.80	152,283	29.80	8.10	0.40
1995	84,051	24.60	236,431	25.30	229,570	33.90	7.80	0.40
1994	94,026	41.80	250,407	37.60	117,243	33.30	7.80	0.40
1993	232,975	34.60	634,341	33.00	406,586	26.30	7.30	0.40
1992	66,478	29.40	208,451	32.70	210,956	45.40	7.30	0.30
1991	166,520	19.20	375,936	18.60	254,900	38.00	7.60	0.40
1990	512,900	31.60	1,359,662	33.60	340,436	37.30	7.50	0.40
1989	146,074	30.80	255,632	28.70	108,002	44.30	7.80	0.60
1988	4,521	74.80	145,068	36.00	39,103	59.30	7.30	0.00
1987	126,931	23.00	304,243	22.90	37,598	69.50	8.20	0.40
1986	747,326	25.70	3,707,493	25.90	945,462	27.20	6.10	0.20
1985	240,533	42.50	872,182	44.50	299,428	53.20	7.00	0.30
1984	112,436	45.90	366,033	37.80	97,704	60.60	7.50	0.30

Table III.52 Pompano, Florida recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	38,848	76.30	218,848	75.70	10,145	84.50	6.40	0.20
1982	151,214	43.80	318,425	37.20	25,630	97.20	8.10	0.50
1981	85,455	36.00	266,744	36.50	34,727	51.20	6.90	0.30

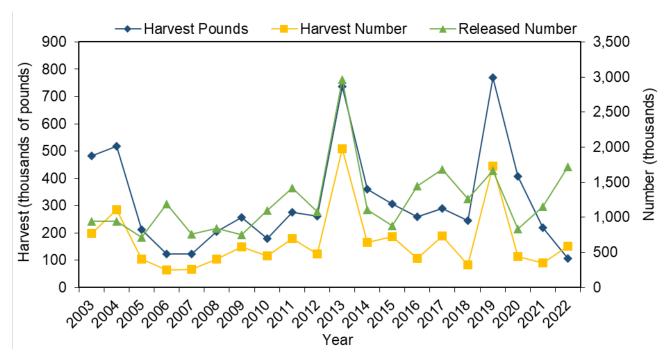


Figure III.47 Pompano, Florida recreational catch in North Carolina by year.

Table III.53 Pompano, Florida recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	105,344	44.40	584,682	45.40	1,724,601	30.10	6.30	0.20
Florida	991,358	40.60	738,690	41.70	521,465	53.90	11.90	1.40
Georgia	1,153	87.10	11,083	90.30	84,194	68.30	5.20	0.10
South Carolina	92,352	27.20	142,954	29.60	2,081,992	23.00	8.90	0.60

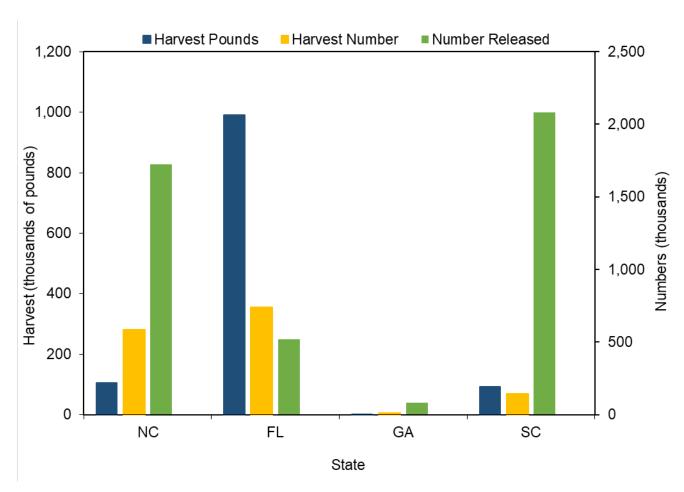


Figure III.48 Florida Pompano recreational catch by state, 2022.

Table III.54 Puffer, Northern recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length	Mean Weight
0000		70.80		<u> </u>		17.80	(inches)	(lb) 0.50
2022	966,751 229,518		1,902,264	30.00 21.20	2,650,698	17.80	8.00 8.00	0.50
2021	507,458	23.00 21.70	507,976 1,164,950	22.00	1,100,095 1,097,409	23.00	8.00	0.50
2020		29.90		29.50		19.30	7.80	0.40
2019	1,016,972	59.90 59.70	2,394,588	56.70	2,240,965		7.80	
2018	148,220		325,810		407,924	23.50		0.50
2017	258,605	24.70	518,342	26.70	1,878,428	41.10	8.30 8.20	0.50
2016	782,983	22.10	1,627,063	21.90	1,927,787	17.60		0.50
2015	1,334,104	28.10	2,752,120	31.10	3,645,599	18.10	8.10	0.50
2014	248,174	40.40	490,259	38.90	419,798	31.40	9.00	0.50
2013	449,032	28.60	899,150	37.30	347,152	32.10	8.30	0.50
2012	613,493	24.70	1,074,685	23.50	1,571,047	11.00	8.50	0.60
2011	579,923	24.00	923,100	22.40	1,220,673	17.90	9.00	0.60
2010	816,436	34.80	1,491,844	35.60	711,264	23.80	8.70	0.50
2009	108,035	31.10	194,158	32.30	40,466	35.10	8.60	0.60
2008	117,706	30.00	311,487	33.20	23,158	60.50	7.50	0.40
2007	93,648	42.70	153,264	41.30	33,626	52.70	9.10	0.60
2006	104,601	81.50	162,012	78.30	34,587	47.60	9.20	0.60
2005	147,256	53.70	237,213	49.30	195,199	53.30	9.00	0.60
2004	160,160	30.60	254,184	31.70	127,519	25.10	8.90	0.60
2003	660,167	58.50	800,863	55.30	51,113	43.50	9.50	0.80
2002	388,883	35.20	677,253	32.90	148,184	36.00	9.20	0.60
2001	397,663	21.30	589,195	20.60	134,411	28.30	9.10	0.70
2000	214,219	23.80	357,127	21.60	145,073	47.00	8.90	0.60
1999	221,457	32.70	317,116	33.20	23,021	43.30	9.40	0.70
1998	62,149	32.10	105,195	30.90	5,422	59.70	9.00	0.60
1997	190,897	28.70	270,814	23.70	138,325	42.50	9.00	0.70
1996	303,231	37.80	589,554	38.30	199,470	67.00	8.60	0.50
1995	113,401	43.60	205,423	43.80	80,369	38.90	9.00	0.60
1994	137,147	26.80	269,693	27.40	26,371	38.40	8.50	0.50
1993	314,595	23.80	550,285	25.30	157,392	26.50	8.60	0.60
1992	1,010,094	49.30	1,904,200	47.50	943,183	36.10	8.40	0.50
1991	112,519	23.60	203,294	22.00	323,876	20.20	8.30	0.60
1990	282,577	51.10	517,184	42.90	506,381	24.40	8.50	0.50
1989	392,438	27.90	617,918	25.90	370,925	20.40	8.40	0.60
1988	48,731	45.70	1,655,165	70.10	756,303	50.10	8.90	0.00
1987	37,047	38.00	87,707	40.20	323,750	76.00	8.00	0.40
1986	155,760	57.00	446,691	56.50	877,411	36.10	8.40	0.30
1985	93,993	84.50	166,909	80.00	178,786	46.30	8.30	0.60
1984	2,385	68.40	10,619	68.40	62,316	36.30	7.40	0.20

Table III.54 Puffer, Northern recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	4,662	70.00	16,404	66.90	96,363	60.10	8.70	0.30
1982	37,737	45.40	83,764	39.00	67,046	43.30	7.80	0.50
1981	3,014	83.90	6,027	73.40	57,396	62.20	8.00	0.50

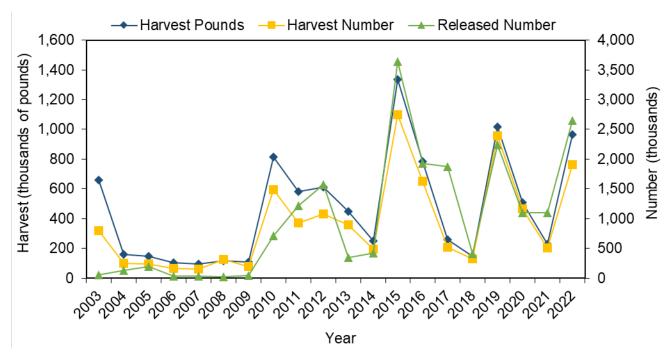


Figure III.49 Puffer, Northern recreational catch in North Carolina by year.

Table III.55 Puffer, Northern recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	966,751	29.70	1,902,264	30.00	2,650,698	17.80	8.30	0.50
Delaware	152	97.80	595	97.40	507	69.60	6.50	0.30
Maryland	786	100.80	1,189	100.80	2,369	71.10	7.60	0.70
New Jersey	292,336	55.90	519,447	51.70	840,724	37.70	8.00	0.60
New York	413,535	74.20	981,191	64.50	635,607	52.30	7.80	0.40
South Carolina	418	100.80	1,895	100.80	39,216	45.30	7.30	0.20
Virginia	1,004	33.50	1,522	33.40	115,312	46.80	7.90	0.70

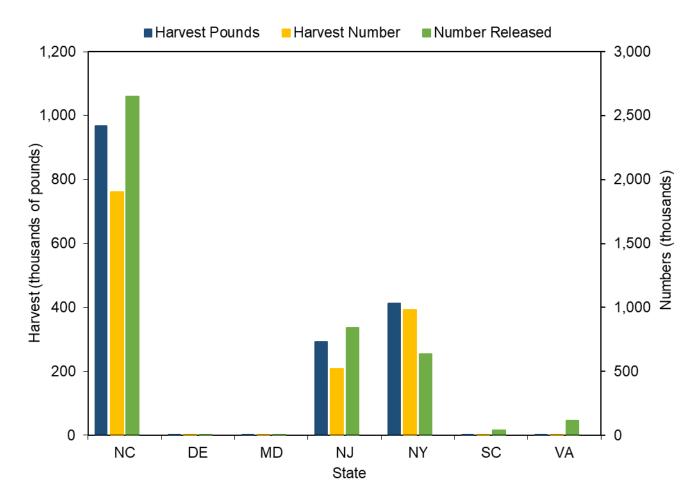


Figure III.50 Puffer, Northern recreational catch by state, 2022.

Table III.56 Seatrout, Spotted recreational catch in North Carolina by year.

2022 3,756,040 15.10 1,963,400 14.20 10,863,780 - 17.40 1.90 2021 2,241,421 12.00 1,223,508 11.30 6,332,064 - 17.00 1.80 2020 3,632,315 11.40 2,053,354 11.10 6,215,778 - 17.00 1.80 2019 3,334,163 11.60 1,937,250 11.40 7,185,562 - 16.70 1.70 2018 658,555 18.40 449,473 18.60 15,245,249 - 15.70 1.50 2017 2,157,198 14.80 1,217,834 14.80 5,151,510 - 17.00 1.80 2016 1,724,492 14.50 978,624 13.10 6,533,887 - 16.80 1.80 2015 430,579 22.60 249,260 21.90 4,883,109 - 16.90 1.70 2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2013 1,881,881 12.10 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.90 2010 2,770,028 12.00 630,748 26.50 8,034,670 - 17.50 2.00 2009 2,878,160 16.50 1,872,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2006 2,034,469 16.70 1,241,296 14.80 3,558,110 - 15.90 1.60 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2008 2,034,469 16,70 1,241,296 14.80 3,558,110 - 15.90 1.60 2009 2,034,691 13.00 560,834 20.20 934,206 - 15.30 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2001 659,893 18.00 499,556 16.70 1,208,974 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2001 659,893 18.00 499,556 16.70 1,208,974 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2001 659,893 18.00 499,556 16.70 1,208,974 - 14.20 1.10 2099 1,878,913 21.00 1,084,111 17.60 1,168,909 - 16.40	Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
2020 3,632,315 11.40 2,053,354 11.10 6,215,778 - 17.00 1.80 2019 3,334,163 11.60 1,937,250 11.40 7,185,562 - 16.70 1.70 2017 2,157,198 14.80 1,217,834 14.80 5,151,510 - 17.00 1.80 2016 1,724,492 14.50 978,624 13.10 6,533,887 - 16.80 1.80 2015 430,579 22.60 249,260 21.90 4,883,109 - 16.90 1.70 2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2013 1,881,881 12.10 1,107,957 11.90 4,312,436 - 16.80 1.70 2011 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 <td>2022</td> <td>3,756,040</td> <td>15.10</td> <td>1,963,400</td> <td>14.20</td> <td>10,863,780</td> <td>-</td> <td>17.40</td> <td>1.90</td>	2022	3,756,040	15.10	1,963,400	14.20	10,863,780	-	17.40	1.90
2019 3,334,163 11.60 1,937,250 11.40 7,185,562 - 16.70 1.70	2021	2,241,421	12.00	1,223,508	11.30	6,332,064	-	17.00	1.80
2018 658,555 18.40 449,473 18.60 15,245,249 - 15.70 1.50 2017 2,157,198 14.80 1,217,834 14.80 5,151,510 - 17.00 1.80 2015 430,579 22.60 249,260 21.90 4,883,109 - 16.90 1.70 2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2013 1,881,881 12.10 1,107,957 11.90 4,312,436 - 16.80 1.70 2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.90 2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,857,890 14.80 3,558,110 - 15.60	2020	3,632,315	11.40	2,053,354	11.10	6,215,778	-	17.00	1.80
2017 2,157,198 14.80 1,217,834 14.80 5,151,510 - 17.00 1.80 2016 1,724,492 14.50 978,624 13.10 6,533,887 - 16.80 1.80 2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2013 1,881,881 12.10 1,107,957 11.90 4,312,436 - 16.80 1.70 2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,488,377 - 17.00 1.90 2010 1,277,174 28.00 630,748 26.50 8,034,670 - 17.50 2.00 2008 2,878,160 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 </td <td>2019</td> <td>3,334,163</td> <td>11.60</td> <td>1,937,250</td> <td>11.40</td> <td>7,185,562</td> <td>-</td> <td>16.70</td> <td>1.70</td>	2019	3,334,163	11.60	1,937,250	11.40	7,185,562	-	16.70	1.70
2016 1,724,492 14.50 978,624 13.10 6,533,887 - 16.80 1.80 2015 430,579 22.60 249,260 21.90 4,883,109 - 16.90 1.70 2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2013 1,881,881 12.10 1,107,957 11.90 4,312,436 - 16.80 1.70 2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.90 2010 1,277,174 28.00 630,748 26.50 8.034,670 - 17.50 2.00 2008 2,114,130 16.50 1,872,973 14.30 4,509,440 - 15.60 1.50 2008 2,154,413,30 16.50 1,372,973 14.30 3,572,351 - 15.50 <td>2018</td> <td>658,555</td> <td>18.40</td> <td>449,473</td> <td>18.60</td> <td>15,245,249</td> <td>-</td> <td>15.70</td> <td>1.50</td>	2018	658,555	18.40	449,473	18.60	15,245,249	-	15.70	1.50
2015 430,579 22.60 249,260 21,90 4,883,109 - 16.90 1.70 2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.90 2010 1,277,174 28.00 630,748 26.50 8,034,670 - 17.50 2.00 2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,441,778 16.60 2,722,351 - 15.50 1.60 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 <td>2017</td> <td>2,157,198</td> <td>14.80</td> <td>1,217,834</td> <td>14.80</td> <td>5,151,510</td> <td>-</td> <td>17.00</td> <td>1.80</td>	2017	2,157,198	14.80	1,217,834	14.80	5,151,510	-	17.00	1.80
2014 1,451,592 16.10 725,086 13.90 3,950,447 - 17.60 2.00 2013 1,881,881 12.10 1,107,957 11.90 4,312,436 - 16.80 1.70 2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.99 2010 1,277,174 28.00 630,748 26.50 8,034,670 - 17.50 2.00 2008 2,878,160 16.50 1,357,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,377,890 14.80 3,558,110 - 15.50 1.60 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.50 1.40 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50	2016	1,724,492	14.50	978,624	13.10	6,533,887	-	16.80	1.80
2013 1,881,881 12.10 1,107,957 11.90 4,312,436 - 16.80 1.70 2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.50 2.00 2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90	2015	430,579	22.60	249,260	21.90	4,883,109	-	16.90	1.70
2012 2,720,028 12.00 1,602,836 10.40 4,967,987 - 16.50 1.70 2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.90 2010 1,277,174 28.00 630,748 26.50 8,034,670 - 17.50 2.00 2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70	2014	1,451,592	16.10	725,086	13.90	3,950,447	-	17.60	2.00
2011 1,353,388 11.50 723,502 11.20 7,486,377 - 17.00 1.90 2010 1,277,174 28.00 630,748 26.50 8,034,670 - 17.50 2.00 2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90	2013	1,881,881	12.10	1,107,957	11.90	4,312,436	-	16.80	1.70
2010 1,277,174 28.00 630,748 26.50 8,034,670 - 17.50 2.00 2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.60 1.50 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50	2012	2,720,028	12.00	1,602,836	10.40	4,967,987	-	16.50	1.70
2009 2,878,160 16.50 1,857,890 16.80 5,369,092 - 16.00 1.50 2008 2,114,130 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2001 1,095,729 22.30 728,906 21.90 645,107 - 15.50	2011	1,353,388	11.50	723,502	11.20	7,486,377	-	17.00	1.90
2008 2,114,130 16.50 1,372,973 14.30 4,509,440 - 15.60 1.50 2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,987,729 22.30 728,906 21.90 645,107 - 15.50	2010	1,277,174	28.00	630,748	26.50	8,034,670	-	17.50	2.00
2007 1,998,275 14.20 1,241,296 14.80 3,558,110 - 15.90 1.60 2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40	2009	2,878,160	16.50	1,857,890	16.80	5,369,092	-	16.00	1.50
2006 2,034,469 16.70 1,444,778 16.60 2,722,351 - 15.50 1.40 2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60	2008	2,114,130	16.50	1,372,973	14.30	4,509,440	-	15.60	1.50
2005 1,695,036 26.50 1,517,647 31.90 3,744,921 - 14.20 1.10 2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 <td>2007</td> <td>1,998,275</td> <td>14.20</td> <td></td> <td>14.80</td> <td>3,558,110</td> <td>-</td> <td>15.90</td> <td>1.60</td>	2007	1,998,275	14.20		14.80	3,558,110	-	15.90	1.60
2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20	2006	2,034,469	16.70	1,444,778	16.60	2,722,351	-	15.50	1.40
2004 728,027 21.30 560,834 20.20 934,206 - 15.30 1.30 2003 515,678 19.50 388,715 20.80 903,292 - 14.70 1.30 2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20	2005	1,695,036	26.50	1,517,647	31.90	3,744,921	-	14.20	1.10
2002 957,824 23.20 746,908 26.60 1,829,880 - 14.90 1.30 2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 <td>2004</td> <td>728,027</td> <td>21.30</td> <td>560,834</td> <td>20.20</td> <td></td> <td>-</td> <td>15.30</td> <td>1.30</td>	2004	728,027	21.30	560,834	20.20		-	15.30	1.30
2001 659,893 18.00 499,556 16.70 1,210,336 - 14.90 1.30 2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 <td>2003</td> <td>515,678</td> <td>19.50</td> <td>388,715</td> <td>20.80</td> <td>903,292</td> <td>-</td> <td>14.70</td> <td>1.30</td>	2003	515,678	19.50	388,715	20.80	903,292	-	14.70	1.30
2000 1,095,729 22.30 728,906 21.90 645,107 - 15.50 1.50 1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40	2002	957,824	23.20	746,908	26.60	1,829,880	-	14.90	1.30
1999 1,878,913 21.00 1,080,411 17.60 1,168,909 - 16.40 1.70 1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1989 950,200 26.80 574,228 21.90 369,017	2001	659,893	18.00	499,556	16.70	1,210,336	-	14.90	1.30
1998 1,125,898 18.30 702,274 16.80 351,114 - 16.40 1.60 1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1987 1,476,034 24.80 1,137,734 25.50 573,181		1,095,729	22.30	728,906	21.90		-	15.50	1.50
1997 1,025,110 16.00 779,611 16.10 480,093 - 15.30 1.30 1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1980 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 <	1999	1,878,913	21.00	1,080,411	17.60	1,168,909	-	16.40	1.70
1996 699,078 23.00 575,357 27.40 1,028,974 - 14.60 1.20 1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 <td< td=""><td></td><td>1,125,898</td><td>18.30</td><td>702,274</td><td>16.80</td><td>351,114</td><td>-</td><td>16.40</td><td>1.60</td></td<>		1,125,898	18.30	702,274	16.80	351,114	-	16.40	1.60
1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - </td <td>1997</td> <td>1,025,110</td> <td>16.00</td> <td>779,611</td> <td>16.10</td> <td>480,093</td> <td>-</td> <td>15.30</td> <td>1.30</td>	1997	1,025,110	16.00	779,611	16.10	480,093	-	15.30	1.30
1995 1,221,065 13.50 863,057 14.90 764,503 - 15.60 1.40 1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - </td <td>1996</td> <td>699,078</td> <td>23.00</td> <td>575,357</td> <td>27.40</td> <td>1,028,974</td> <td>-</td> <td>14.60</td> <td>1.20</td>	1996	699,078	23.00	575,357	27.40	1,028,974	-	14.60	1.20
1994 1,207,520 14.80 798,937 13.90 601,148 - 16.00 1.50 1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - <td></td> <td>1,221,065</td> <td>13.50</td> <td>863,057</td> <td>14.90</td> <td>764,503</td> <td>-</td> <td>15.60</td> <td>1.40</td>		1,221,065	13.50	863,057	14.90	764,503	-	15.60	1.40
1993 857,720 17.30 569,327 16.30 542,137 - 15.70 1.50 1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50	1994		14.80		13.90	601,148	-	16.00	1.50
1992 1,390,746 21.90 908,233 19.40 476,405 - 15.60 1.50 1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50							-	15.70	
1991 1,360,530 13.10 988,049 13.10 719,372 - 15.10 1.40 1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50							-	15.60	
1990 424,443 19.70 385,413 32.90 235,091 - 14.20 1.10 1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50		1,360,530		988,049	13.10	719,372	-	15.10	1.40
1989 950,200 26.80 574,228 21.90 369,017 - 15.60 1.70 1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50							-		
1988 81,667 41.90 828,913 36.70 196,066 - 13.20 0.10 1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50	1989	950,200	26.80	574,228	21.90	369,017	-	15.60	1.70
1987 1,476,034 24.80 1,137,734 25.50 573,181 - 13.90 1.30 1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50		•					-		
1986 1,022,380 25.10 954,354 19.00 63,506 - 13.60 1.10 1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50		· ·				•	-		
1985 452,658 31.40 309,555 27.50 7,361 - 14.40 1.50							-		
						•	-		
1904 105,514 55.00 154,750 41.90 42,455 - 12.00 0.70	1984	103,514	35.80	154,750	41.90	42,465	-	12.60	0.70

¹ Seatrout releases are not always recorded to species level; released number was calculated by assigning a ratio of observed seatrout by species to reported seatrout genus release estimates. PSE are not available for this analysis.

Table III.56 Seatrout, Spotted recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	167,186	27.40	220,129	26.70	26,685	-	13.10	0.80
1982	308,947	29.30	342,781	32.00	-	-	12.50	0.90
1981	235,405	44.40	132,606	42.60	2,031	-	15.90	1.80

¹ Seatrout releases are not always recorded to species level; released number was calculated by assigning a ratio of observed seatrout by species to reported seatrout genus release estimates. PSE are not available for this analysis.

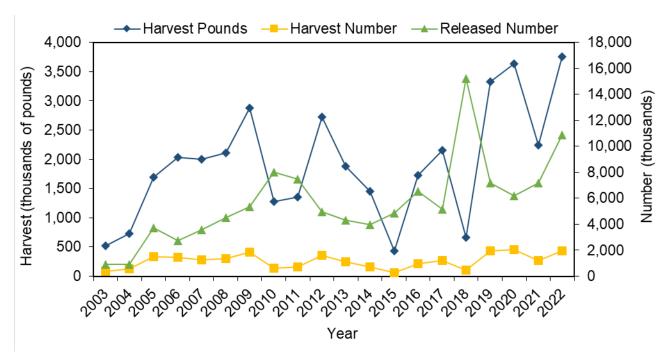


Figure III.51 Seatrout, Spotted recreational catch in North Carolina by year.

Table III.57 Seatrout, Spotted recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	3,756,040	15.10	1,963,400	14.20	17.40	1.90
Florida	519,335	18.50	337,142	19.40	16.50	1.50
Georgia	1,268,493	23.40	952,260	22.10	15.20	1.30
Maryland	12,902	59.20	8,739	67.10	16.40	1.50
South Carolina	423,318	24.90	281,274	23.40	16.00	1.50
Virginia	549,095	54.40	248,150	55.00	18.00	2.20

¹Released seatrout are not always recorded to species level. Numbers released are not shown by state.

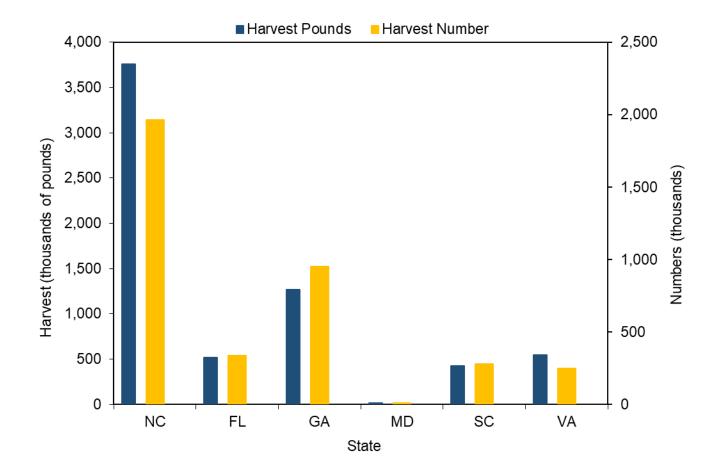


Figure III.52 Seatrout, Spotted recreational catch by state, 2022.

Table III.58 Shark, Dogfish family recreational catch in North Carolina by year.

	Harvest		Harvest	PSE	Released	PSE	Mean	Mean
Year	Pounds	PSE (lb)	Number	(num)	Number	(release)	Length	Weight
0000		50.70	5,214			` '	(inches)	(lb)
2022	14,461	53.70	,	52.30	81,219	52.60	-	-
2021	117,447	84.80 65.00	21,587 3,073	82.50 60.30	442,370 533,257	84.40 44.60	-	-
2020	16,763	60.30	•	56.30	·	37.20	<u>-</u>	-
2019	50,477		8,962		277,815		-	-
2018	43,732	80.50	7,514	74.10	237,213	62.40	-	-
2017	5,616	87.00	683	84.50	113,453	42.20	-	-
2016	359,844	64.00	33,490	63.00	181,165	30.90	-	-
2015	38,340	76.70	8,314	61.70	777,052	43.90	-	-
2014	11,978	90.40	1,992	88.20	709,206	29.40	-	-
2013	88,216	71.40	52,026	77.60	2,100,519	39.90	-	-
2012	10,522	82.40	1,600	75.70	197,177	33.40	-	-
2011	108,348	43.50	28,719	43.10	607,971	24.80	-	-
2010	26,626	45.50	8,859	46.00	362,012	22.00	-	-
2009	43,216	81.10	2,000	81.10	175,626	45.60	-	-
2008	17,414	66.50	20,340	69.20	405,531	55.60	-	-
2007	36,342	100.90	5,405	100.90	187,272	34.40	-	-
2006	71,369	65.10	5,775	56.60	150,924	27.10	-	-
2005	275,611	64.50	37,180	64.90	792,947	75.00	-	-
2004	31,524	75.20	2,574	78.80	919,204	33.20	-	-
2003	2,958	98.30	3,105	88.80	145,851	59.50	-	-
2002	22,922	83.40	8,675	87.30	115,577	30.50	-	-
2001	5,374	99.80	6,843	99.80	229,402	29.60	-	-
2000	9,693	87.60	1,151	88.20	109,351	33.00	-	-
1999	17,941	85.70	9,663	89.90	71,050	66.10	-	-
1998	22,939	54.60	3,373	53.00	79,758	47.20	-	-
1997	11,492	72.10	5,589	79.80	28,748	32.90	-	-
1996	22,267	46.40	9,125	42.40	35,227	29.60	-	-
1995	26,696	48.80	7,679	44.80	123,209	36.00	-	-
1994	37,456	35.20	12,774	32.20	61,539	27.00	-	-
1993	58,258	33.50	15,065	36.40	51,097	37.20	-	-
1992	144,564	56.10	26,865	48.00	262,281	33.90	-	-
1991	321,441	43.40	52,948	37.10	235,289	27.60	17.30	2.70
1990	476,110	57.20	57,110	46.00	568,100	26.60	25.60	2.50
1989	557,726	56.70	83,267	40.80	284,839	36.30	-	-
1988	300,069	76.20	121,457	38.40	254,187	34.20	26.90	3.90
1987	572,154	34.60	227,905	33.80	244,347	36.70	34.80	6.70
1986	151,531	36.40	66,439	29.10	338,364	69.40	-	-
1985	342,451	62.30	86,890	35.30	100,912	36.40	-	-
1984	436,508	67.10	144,554	34.10	395,503	56.20	-	-

Table III.58 Shark, Dogfish family recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	121,639	68.90	31,275	51.50	76,028	52.40	-	
1982	-	-	9,118	71.60	51,953	46.50	-	-
1981	91,705	83.30	90,299	77.10	478,085	58.90	-	-

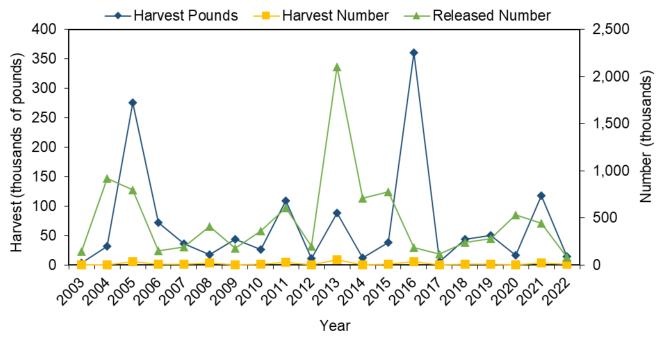


Figure III.53 Shark, Dogfish family recreational catch in North Carolina by year.

Table III.59 Shark, Dogfish family recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	14,461	53.70	5,214	52.30	81,219	52.60	-	-
Connecticut	7,117	68.10	841	55.60	275,084	19.70	-	-
Delaware	1,243	97.40	2,676	72.90	227,473	22.20	-	-
Maine	4,701	70.80	741	68.40	132,891	46.10	-	-
Massachusetts	18,446	91.30	4,323	84.50	224,044	38.30	-	-
New Hampshire	1,376	40.60	305	44.00	108,092	27.60	-	-
New Jersey	5,458	97.10	1,651	97.10	1,854,156	17.90	-	-
New York	47,358	60.50	9,719	41.90	923,742	25.20	-	-
Rhode Island	11,049	52.10	1,617	52.10	187,497	18.10	-	-
Virginia	6,835	95.50	1,215	93.80	2,099	76.20	-	-

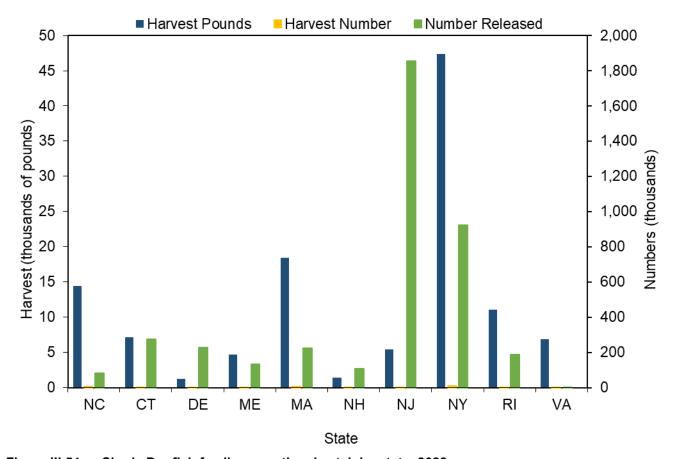


Figure III.54 Shark, Dogfish family recreational catch by state, 2022.

Table III.60 Shark, Pelagic recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
2022	-	-	-	-	-	-	-	-
2021	-	-	111	98.10	20	96.90	-	-
2020	-	-	-	-	38	62.50	-	-
2019	-	-	-	-	888	65.70	-	-
2018	160,155	73.10	2,043	73.10	38	63.00	-	-
2017	4,917	62.20	66	64.10	33	86.20	-	-
2016	-	-	-	-	3,512	79.00	-	-
2015	479,443	75.90	5,097	76.10	987	91.80	-	-
2014	2,082	51.50	26	54.60	296	110.50	-	-
2013	1,219	100.80	28	100.80	1,865	97.10	-	-
2012	17,323	73.60	291	76.70	13	98.30	-	-
2011	4,803	68.00	78	76.40	-	-	-	-
2010	12,324	88.10	77	83.20	96	99.20	-	-
2009	8,123	57.50	91	58.80	-	-	-	-
2008	2,536	81.40	28	81.40	-	-	-	-
2007	7,223	74.90	78	74.30	151	109.90	-	-
2006	9,605	64.60	93	55.20	1,103	94.70	-	-
2005	231,185	96.90	3,052	97.60	1,049	89.10	-	-
2004	66,257	91.50	452	88.80	-	-	-	-
2003	2,418	101.30	31	101.30	-	-	-	-
2002	12,764	90.90	40	76.60	-	-	-	-
2001	27,610	43.00	182	44.00	107	100.40	-	-
2000	22,234	61.00	173	47.90	-	-	-	-
1999	1,607	100.90	41	100.90	-	-	-	-
1998	8,689	53.10	167	42.70	45	75.40	-	-
1997	19,477	60.60	119	61.40	-	-	-	-
1996	1,351	100.10	14	100.10	-	-	-	-
1995	4,892	57.00	126	44.20	-	-	-	-
1994	3,892	81.00	248	85.50	1,700	71.30	-	-
1993	3,910	92.10	31	72.10	-	-	-	-
1992	8,983	59.50	298	63.60	1,669	104.80	-	-
1991	26,514	66.20	143	46.10	-	-	-	-
1990	12,187	100.40	97	100.40	15,599	96.60	-	-
1989	6,243	77.30	310	77.30	1,449	77.50	-	-
1988	627,246	111.10	3,819	110.40	-	-	-	-
1987	115,089	98.80	1,374	91.10	-	-	-	-
1986	53,657	98.40	544	98.40	6	101.50	-	-
1985	716,914	84.40	8,595	82.00	-	-	-	-
1984	263,436	99.90	13,131	99.90	1,637	77.10	-	-

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

Table III.60 Shark, Pelagic recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
1983	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-
1981	-	_	_	-	-	-	-	-

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

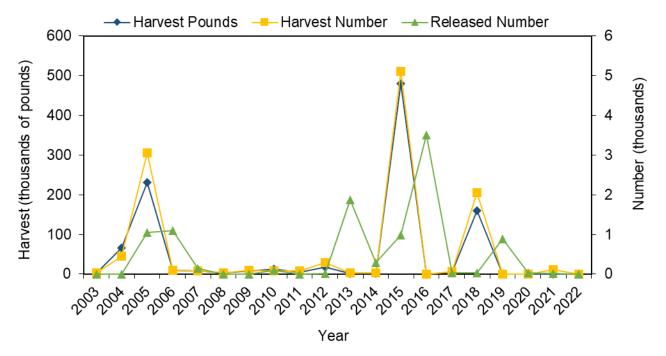


Figure III.55 Shark, Pelagic recreational catch in North Carolina by year.

Table III.61 Shark, Pelagic recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
Maine	143,318	101.60	443	101.60	3,381	52.10	-	-
Maryland	77,292	38.60	297	38.60	5,050	82.80	-	-
New Jersey	2,730,289	96.90	4,626	96.50	1,195	99.30	-	-
New York	222,435	96.00	772	96.00	22,292	52.30	-	-

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

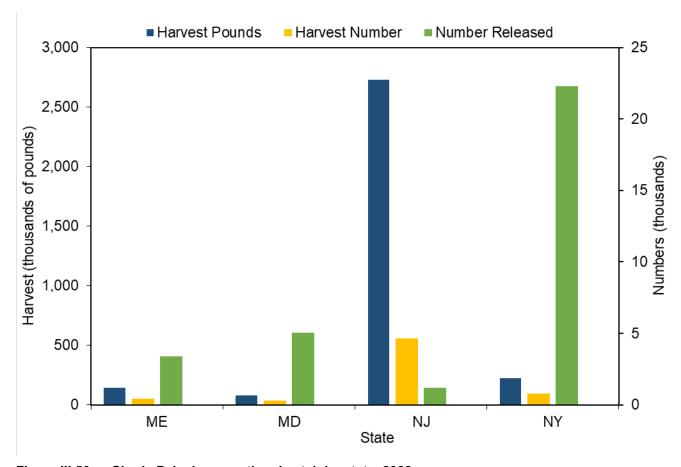


Figure III.56 Shark, Pelagic recreational catch by state, 2022.

Table III.62 Sheepshead recreational catch in North Carolina by year.

		DOF	11	DOF	D-I-	505	Mean	Mean
Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Length	Weight
		, ,		, ,		· · ·	(inches)	(lb)
2022	1,024,623	18.20	387,924	17.20	570,444	18.50	14.00	2.60
2021	928,130	18.60	324,540	15.70	873,080	17.00	14.00	2.90
2020	592,774	21.20	247,390	23.90	518,140	20.80	13.40	2.40
2019	590,150	24.70	221,419	21.70	312,479	26.20	13.90	2.70
2018	735,738	20.10	343,772	22.50	524,967	17.70	12.80	2.10
2017	810,633	19.60	282,480	19.40	910,841	22.70	13.90	2.90
2016	375,328	25.30	149,085	26.20	212,471	23.20	13.80	2.50
2015	520,382	20.80	181,554	22.20	160,447	22.60	14.20	2.90
2014	389,583	20.80	185,267	20.40	224,062	20.40	12.60	2.10
2013	1,220,357	15.90	784,747	20.10	391,809	20.30	11.10	1.60
2012	797,963	19.30	346,609	15.80	269,226	23.20	12.70	2.30
2011	522,896	30.10	196,844	25.60	78,821	26.00	13.90	2.70
2010	966,467	19.50	327,223	17.60	190,823	22.30	14.40	3.00
2009	577,311	23.80	362,439	23.30	299,221	25.20	11.40	1.60
2008	1,007,914	33.80	503,666	30.20	172,604	22.40	11.90	2.00
2007	1,456,396	29.50	433,872	30.10	334,014	34.20	14.90	3.40
2006	445,182	33.40	137,312	32.80	90,502	45.30	14.80	3.20
2005	340,227	41.90	87,504	40.00	65,863	80.50	16.20	3.90
2004	453,372	26.40	86,554	23.80	40,263	44.60	16.90	5.20
2003	983,640	25.20	294,989	23.40	85,877	31.80	14.50	3.30
2002	781,567	25.00	181,197	23.20	68,317	24.40	16.00	4.30
2001	654,527	30.00	183,781	28.60	66,594	38.50	15.20	3.60
2000	780,622	20.60	355,192	21.00	94,963	28.20	13.10	2.20
1999	758,153	31.90	255,885	22.30	124,676	29.00	14.50	3.00
1998	209,825	23.00	151,473	21.20	109,454	38.40	11.00	1.40
1997	308,381	32.50	209,662	37.80	55,258	31.80	11.00	1.50
1996	256,911	25.50	77,750	22.90	12,798	30.80	14.90	3.30
1995	407,729	20.20	157,769	20.70	39,779	31.30	13.90	2.60
1994	197,128	22.10	92,098	20.10	31,965	29.40	13.10	2.10
1993	289,634	23.50	221,442	27.40	51,981	34.70	10.90	1.30
1992	434,509	39.20	206,241	37.70	48,565	44.10	12.40	2.10
1991	154,193	32.30	67,277	22.10	34,505	28.30	12.00	2.30
1990	161,180	27.50	103,041	32.00	18,679	38.40	11.00	1.60
1989	243,496	26.30	136,175	30.90	17,747	73.30	11.90	1.80
1988	50,046	53.30	152,971	41.60	7,766	84.20	13.10	0.30
1987	172,377	58.00	52,061	37.20	70,117	89.00	14.30	3.30
1986	399,925	59.80	132,061	62.00	8,283	100.20	15.00	3.00
1985	42,573	75.90	12,691	72.40	-	-	15.40	3.40
1984	32,152	93.90	21,156	93.90	-	-	11.40	1.50

Table III.62 Sheepshead recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	19,285	100.50	5,930	100.50	-	-	18.30	3.30
1982	183,768	69.60	61,765	74.80	-	-	15.40	3.00
1981	262,503	54.80	83,626	45.10	12,772	78.90	12.40	3.10

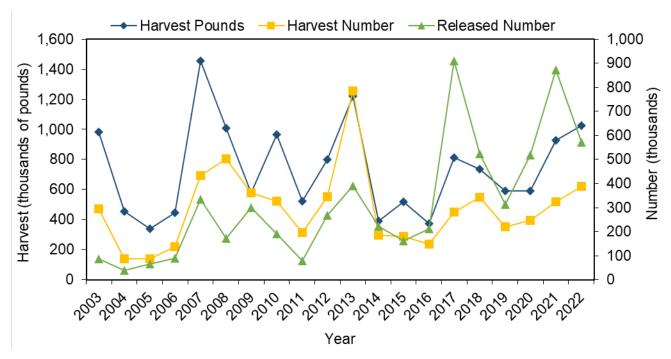


Figure III.57 Sheepshead recreational catch in North Carolina by year.

Table III.63 Sheepshead recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	1,024,623	18.20	387,924	17.20	570,444	18.50	13.70	2.60
Delaware	22,165	44.70	3,678	40.70	10,813	39.60	18.50	6.00
Florida	1,657,657	22.10	660,281	20.90	659,352	22.70	13.60	2.30
Georgia	1,349,263	45.60	579,823	41.20	283,323	27.90	13.00	2.30
Maryland	18,245	94.80	7,367	90.00	2,963	78.20	12.80	2.50
New Jersey	19,885	66.00	3,460	58.10	7,155	66.50	18.20	5.70
South Carolina	1,021,920	31.70	264,604	31.40	521,997	27.40	16.00	3.90
Virginia	130,909	53.30	18,260	52.80	26,850	62.00	19.10	7.20

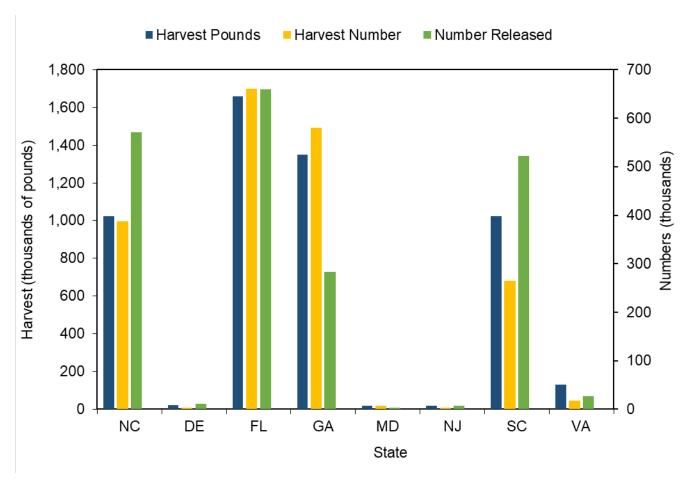


Figure III.58 Sheepshead recreational catch by state, 2022.

Table III.64 Spot recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	375,168	35.40	1,197,145	34.40	2,331,484	24.10	8.10	0.30
2021	435,231	22.40	1,199,080	19.40	2,357,567	19.90	8.00	0.40
2020	297,813	17.70	920,512	17.70	1,673,676	17.90	8.10	0.30
2019	851,998	27.70	2,822,884	27.60	2,356,120	27.30	7.70	0.30
2018	597,511	24.20	2,068,865	24.30	2,062,163	19.40	8.40	0.30
2017	909,796	50.80	2,418,331	44.80	1,902,281	28.20	8.10	0.40
2016	558,799	25.30	1,928,716	25.30	1,831,415	22.00	7.90	0.30
2015	833,390	20.60	2,572,738	19.60	2,984,629	15.30	8.10	0.30
2014	2,877,483	25.90	8,343,467	23.90	4,043,710	12.50	8.20	0.30
2013	1,789,251	17.50	6,120,985	15.70	5,513,732	12.10	7.90	0.30
2012	760,276	22.20	2,677,082	21.40	2,995,879	13.20	7.90	0.30
2011	2,201,947	20.70	6,480,714	19.50	4,993,544	11.50	8.20	0.30
2010	1,173,173	19.40	3,830,384	19.30	3,615,808	14.40	8.10	0.30
2009	1,427,956	20.10	4,197,640	20.30	4,847,202	12.60	8.40	0.30
2008	1,382,428	20.50	3,970,431	19.70	3,817,529	15.40	8.30	0.30
2007	2,737,144	20.90	8,728,295	21.30	4,049,250	17.30	9.10	0.30
2006	3,995,432	40.40	11,109,551	39.40	8,196,592	15.40	8.90	0.40
2005	3,652,186	19.80	10,105,205	19.20	4,407,100	16.20	8.40	0.40
2004	3,682,623	14.40	7,845,322	12.40	2,899,319	12.50	9.20	0.50
2003	4,220,534	17.30	9,717,824	17.70	2,970,990	13.00	8.70	0.40
2002	3,017,466	19.20	8,456,981	21.80	1,569,579	11.90	8.30	0.40
2001	4,519,545	15.90	10,043,845	15.10	2,804,349	16.20	8.80	0.40
2000	2,598,813	31.40	6,121,384	31.60	1,366,746	14.10	8.60	0.40
1999	2,565,546	22.50	5,736,185	21.90	2,343,795	15.80	9.10	0.40
1998	4,596,119	29.40	11,797,824	29.80	2,379,578	23.40	8.60	0.40
1997	2,129,481	15.80	4,529,620	15.30	1,110,650	12.30	8.70	0.50
1996	2,461,892	19.40	6,729,366	18.00	2,234,354	11.40	8.50	0.40
1995	3,214,061	20.20	8,199,743	21.40	2,214,819	15.10	8.50	0.40
1994	4,571,386	40.30	14,032,650	38.60	2,365,031	11.90	8.20	0.30
1993	2,879,162	30.80	6,877,688	25.90	1,445,961	21.00	8.40	0.40
1992	1,431,733	18.40	5,043,969	20.60	2,908,974	23.20	7.60	0.30
1991	3,066,857	18.30	9,894,562	17.80	3,454,466	20.80	7.60	0.30
1990	2,453,645	26.60	7,920,697	24.60	2,868,842	30.10	7.60	0.30
1989	3,566,280	19.70	10,246,429	18.80	1,995,653	23.50	7.90	0.40
1988	544,890	42.80	7,023,874	23.10	5,019,090	26.70	7.70	0.10
1987	2,251,362	25.10	6,206,621	23.90	1,549,262	33.10	8.00	0.40
1986	1,726,927	31.40	7,611,684	31.50	1,968,905	36.80	7.50	0.20
1985	8,830,039	32.30	25,539,489	29.90	1,456,600	29.30	8.20	0.30
1984	2,141,016	31.50	9,307,957	31.70	2,902,722	19.50	7.30	0.20

Table III.64 Spot recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	4,362,435	22.00	12,396,777	20.30	1,754,638	37.70	7.70	0.40
1982	2,048,343	18.30	7,583,890	18.30	1,762,765	39.70	7.40	0.30
1981	5,983,808	68.80	17,992,817	72.10	2,771,801	66.10	7.40	0.30

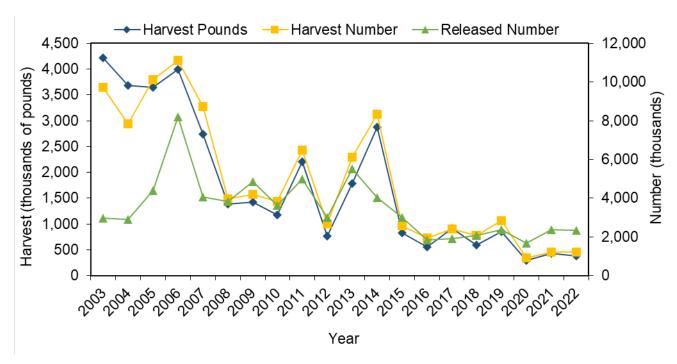


Figure III.59 Spot recreational catch in North Carolina by year.

Table III.65 Spot recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	375,168	35.40	1,197,145	34.40	2,331,484	24.10	8.10	0.30
Delaware	21,381	35.70	79,460	35.20	473,868	24.00	8.20	0.30
Florida	20,586	66.40	68,340	70.50	59,608	59.10	8.40	0.30
Georgia	12,712	46.10	43,773	45.80	310,532	32.30	7.60	0.30
Maryland	427,557	16.80	1,638,380	16.50	3,671,723	15.70	7.00	0.30
New Jersey	26,411	66.70	108,648	69.70	1,324,071	71.20	7.00	0.20
South Carolina	281,240	76.70	747,290	74.40	192,706	24.00	8.20	0.40
Virginia	1,285,186	17.90	8,928,353	19.80	7,767,650	23.30	6.00	0.10

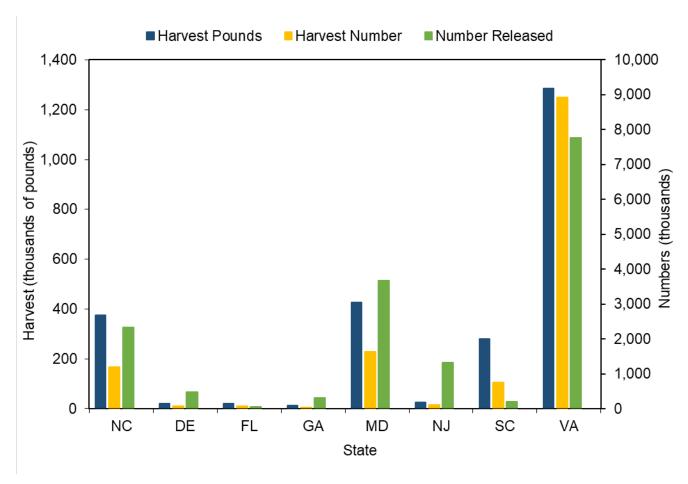


Figure III.60 Spot recreational catch by state, 2022.

Table III.66 Tuna, Yellowfin recreational catch in North Carolina by year.

Year Pounds (lb) Number (num) Number (release) Leftgh (inches) 2022 1.450,166 28.90 38.924 26.30 6.890 81.10 38.00 37.30 2021 1.365,679 21.50 49.158 21.30 3.509 82.10 34.00 27.80 2020 2.429,665 17.70 83.766 17.90 32.574 84.30 35.10 29.00 2019 1.190,484 20.00 44.864 20.40 2,333 53.20 33.90 26.50 2018 1.977,741 27.10 61.171 31.30 3,739 46.00 36.20 32.30 2016 3.164,911 24.10 80.458 23.20 28.643 63.70 39.30 39.30 2015 1,079,798 24.50 89.59 25.20 2,196 44.00 35.00 28.30 2013 1,705,605 19.50 52,907 18.10 1.229 51.40 37.00 32.20<		Harvest	PSE	Harvest	PSE	Released	PSE	Mean	Mean
1,450,166 29.90 38,924 26.30 6.890 81.10 38.00 37.30	Year								
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Table III.66 Tuna, Yellowfin recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	559,880	72.80	17,153	70.30	-	-	35.30	32.60
1982	-	_	-	-	-	-	-	-
1981	94,325	111.50	3,877	107.20	-	-	38.80	24.30

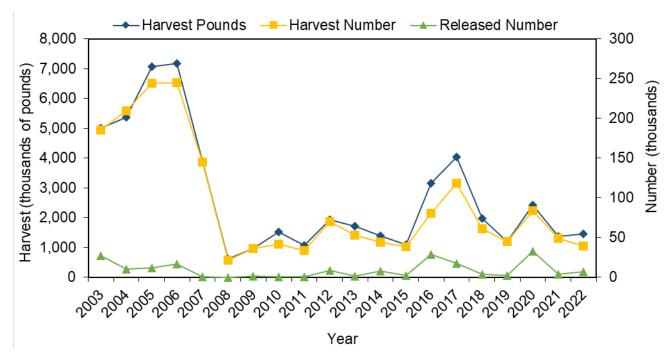


Figure III. 61 Tuna, Yellowfin recreational catch in North Carolina by year.

Table III.67 Tuna, Yellowfin recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	1,450,166	28.9	38,924	26.3	6,890	81.1	38.4	37.3
Connecticut	257,894	75.3	6,411	77.2	-	-	39.5	40.2
Delaware	110,340	51.6	3,980	52.0	9,557	100.7	34.3	27.7
Florida	3,557	100.1	97	100.1	8	100.1	38.4	36.7
Maryland	2,129,340	46.3	47,175	47.7	5,292	87.4	41.5	45.1
Massachusetts	85,779	102.7	2,514	102.7	8,836	102.3	37.8	34.1
New Jersey	2,652,299	34.2	69,733	34.1	38,983	39.8	38.0	38.0
New York	2,603,087	38.6	40,479	36.0	12,810	73.6	46.9	64.3
Rhode Island	881,930	34.8	20,960	34.0	895	55.6	40.8	42.1
Virginia	168,693	75.8	3,827	75.7	-	-	41.3	44.1

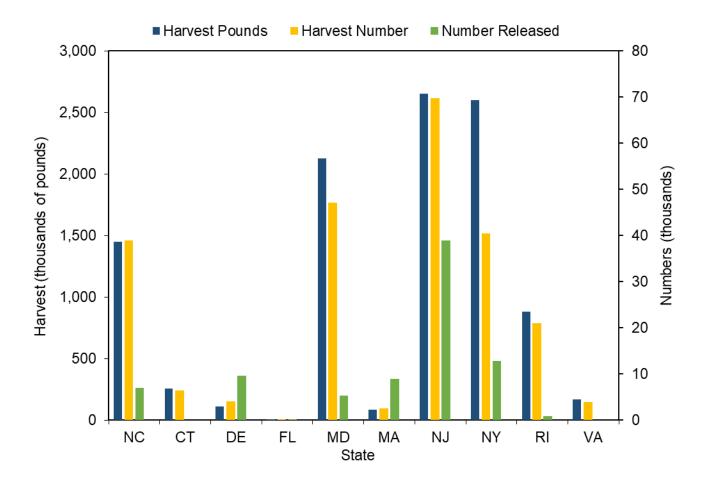


Figure III.62 Tuna, Yellowfin recreational catch by state, 2022.

Table III.68 Tunny, Little recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
2022	234,924	15.70	38,772	18.60	127,255	33.70	59	17.30
2021	118,785	9.50	17,096	10.30	52,788	15.50	29	8.80
2020	594,800	25.90	92,899	32.00	171,564	13.20	42	12.90
2019	185,095	10.60	27,360	9.00	80,205	14.10	32	10.40
2018	315,761	19.10	47,892	23.00	110,716	29.00	35	12.70
2017	334,366	30.20	39,213	30.90	119,648	16.90	18	6.40
2016	337,845	14.50	41,076	15.20	145,700	28.40	25	9.40
2015	207,891	10.50	22,855	10.60	87,239	19.70	33	11.50
2014	189,271	30.10	27,469	37.20	273,165	35.60	26	9.50
2013	218,471	23.10	28,669	31.70	108,149	36.70	19	6.90
2012	140,026	21.40	18,393	15.20	59,160	18.70	33	11.30
2011	55,290	14.20	7,807	17.80	30,347	22.00	22	9.20
2010	49,291	34.80	7,373	35.40	66,459	25.40	20	8.10
2009	139,433	27.70	17,018	29.40	83,453	21.60	16	7.40
2008	76,229	28.40	12,376	29.30	33,205	14.70	15	4.60
2007	29,493	40.60	3,098	37.80	115,324	25.70	7	2.60
2006	29,943	14.90	3,319	15.20	39,901	9.90	10	3.70
2005	69,869	48.50	6,938	54.10	68,636	11.30	10	3.20
2004	95,090	25.50	7,955	23.60	62,965	10.50	13	6.10
2003	79,071	26.40	12,294	20.10	24,662	7.20	13	3.60
2002	61,385	26.80	13,717	21.40	89,706	32.60	9	2.20
2001	53,956	19.70	8,702	21.90	78,517	18.40	14	4.10
2000	85,780	26.40	13,931	25.00	41,590	15.60	12	3.50
1999	90,008	17.80	15,895	15.60	77,884	30.00	18	5.50
1998	200,845	21.20	25,206	19.80	75,618	17.30	21	6.80
1997	222,312	16.30	31,786	15.10	48,107	16.50	26	9.40
1996	301,131	38.00	64,335	47.00	23,050	23.70	28	8.30
1995	122,539	35.50	16,417	42.00	10,469	13.50	37	13.10
1994	130,178	9.40	17,253	11.30	8,751	15.70	34	10.70
1993	167,719	11.10	19,761	12.50	12,841	47.80	38	14.30
1992	199,209	11.90	27,543	10.80	39,215	16.20	51	17.10
1991	163,420	13.10	22,813	12.40	43,851	36.40	31	9.10
1990	101,446	14.70	14,427	16.10	24,132	13.60	42	11.70
1989	403,624	29.70	39,113	25.90	32,514	29.80	60	20.50
1988	8,626	19.80	13,495	22.70	15,332	34.80	3	0.80
1987	245,566	12.60	27,352	10.30	8,162	43.10	66	21.30
1986	299,670	6.30	25,394	8.00	3,857	51.90	56	19.10
1985	592,229	7.40	72,466	8.50	2,533	100.00	54	18.00
1984	45,356	38.90	5,518	38.70	-		39	14.20

Table III.68 Tunny, Little recreational catch in North Carolina by year (continued).

	Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
_	1983	1,117,720	-	85,196	-	-	-	47	15.8
	1982	75,054	-	7,041	-	-	-	26	8.0
	1981	-	-	-	_	-	-	-	-

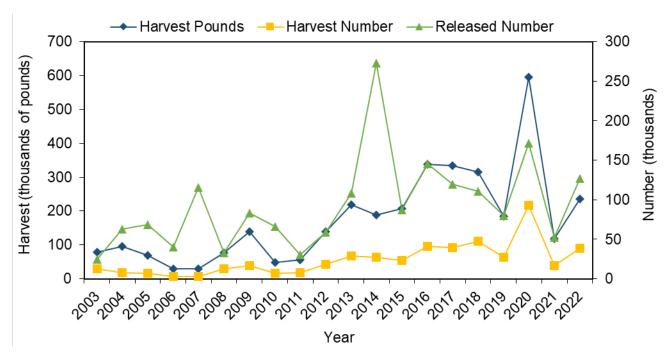


Figure III. 63 Tunny, Little recreational catch in North Carolina by year.

Table III.69 Tunny, Little recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	234,922	25.10	38,772	26.70	127,255	41.30	22.00	6.10
Delaware	406	87.30	49	86.10	6,768	72.90	24.50	8.40
Florida	2,361,217	15.30	379,773	15.30	430,186	19.40	19.10	4.60
Georgia	30,746	72.40	6,641	72.40	-	-	21.00	4.60
Maryland	21,902	35.60	4,855	35.00	674	93.50	19.70	4.50
Massachusetts	118,957	64.80	19,115	64.80	317,008	28.30	22.30	6.20
New Jersey	86,711	69.40	14,958	70.40	56,567	39.10	22.00	5.80
New York	18,045	77.20	2,438	72.80	170,809	54.00	23.50	7.40
Rhode Island	1,047,462	32.60	173,092	33.70	315,367	32.70	22.40	6.10
South Carolina	7,921	72.30	1,722	77.90	32,277	53.60	20.80	4.60
Virginia	4,788	98.60	876	98.60	-	-	21.30	5.50

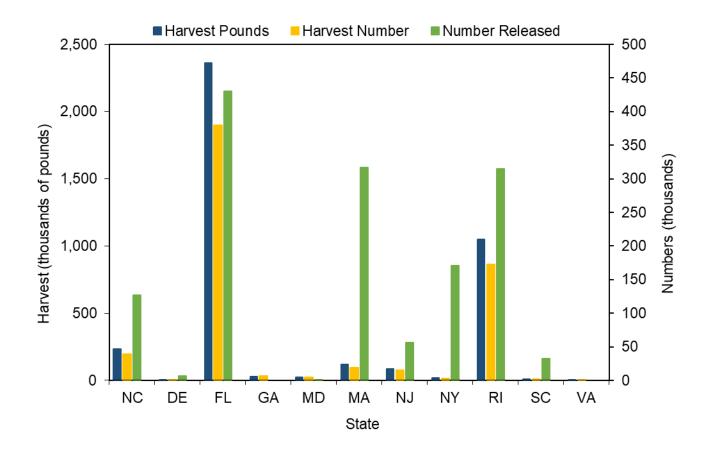


Figure III.64 Tunny, Little recreational catch by state, 2022.

Table III.70 Wahoo recreational catch in North Carolina by year.

Year	Harvest Number	PSE	Harvest Pounds	PSE (lb)	Released Number	PSE (release)	Mean Length	Mean Weight
		(num)			Number	(release)	(inches)	(lb)
2022	232,436	27.30	9,657	27.40	-	-	47.00	24.30
2021	9,760	31.90	244,048	28.80	-	-	46.00	25.00
2020	19,055	22.90	462,937	19.90	87	99.30	46.90	24.30
2019	17,098	17.60	454,391	17.20	23	100.30	47.10	26.60
2018	10,690	26.30	280,644	25.30	182	94.20	47.70	26.30
2017	30,305	29.10	842,604	31.00	-	-	48.80	27.80
2016	39,565	21.90	1,056,969	22.80	5	110.20	48.10	26.70
2015	36,920	25.20	983,232	23.20	608	101.30	47.90	26.60
2014	29,362	26.90	804,473	27.50	22	103.40	48.20	27.40
2013	11,951	26.70	319,866	25.90	337	97.90	48.40	26.80
2012	37,423	14.90	994,195	15.00	12	99.70	48.20	26.60
2011	21,501	27.90	611,319	32.00	40	99.70	49.00	28.40
2010	19,703	23.10	571,575	26.40	2,532	69.60	49.00	29.00
2009	42,129	57.90	1,696,717	67.50	48	97.90	53.60	40.30
2008	21,777	26.40	527,736	25.50	-	-	46.10	24.20
2007	47,890	43.20	1,495,127	56.10	-	-	50.40	31.20
2006	21,834	21.80	490,904	23.10	594	63.80	45.00	22.50
2005	41,364	45.80	1,249,160	47.60	-	-	48.10	30.20
2004	61,153	51.00	2,220,765	55.80	-	-	52.30	36.30
2003	21,274	37.60	662,567	34.60	-	-	48.20	31.10
2002	32,783	20.60	1,056,010	25.00	398	99.90	48.00	32.20
2001	17,889	28.90	473,926	30.60	-	-	46.10	26.50
2000	18,183	24.70	412,824	25.60	1,126	97.40	44.90	22.70
1999	17,341	20.60	387,342	19.90	-	-	44.70	22.30
1998	11,195	19.00	253,128	19.00	51	-	46.00	23.00
1997	19,587	18.70	464,335	18.30	152	-	45.60	23.70
1996	15,259	19.00	397,335	19.00	1,300	-	48.00	26.00
1995	21,726	21.40	476,289	23.60	14	-	45.40	21.90
1994	12,182	17.00	308,986	18.10	1,286	-	47.00	25.40
1993	7,673	25.10	208,325	38.80	-	-	46.90	27.10
1992	6,326	20.70	1,726,842	86.30	1,061	70.10	53.90	273.00
1991	5,068	28.70	121,382	30.60	17	99.70	45.60	24.00
1990	5,290	28.30	114,060	29.30	-	-	44.50	21.60
1989	6,674	25.30	194,287	27.90	-	-	46.80	29.10
1988	2,043	33.90	14,342	59.70	-	-	47.90	7.00
1987	6,400	50.20	172,708	62.10	42	97.90	46.60	27.00
1986	11,085	31.80	474,402	30.70	-	-	53.20	42.80
1985	3,182	91.70	294,797	93.30	-	-	73.00	92.70
1984	1,637	77.10	21,298	77.10	-	-	44.10	13.00

Table III.70 Wahoo recreational catch in North Carolina by year (continued).

Year	Harvest Number	PSE (num)	Harvest Pounds	PSE (lb)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
1983	3,210	101.60	58,854	101.50	-	-	39.20	18.30
1982	-	-	-	-	-	-	-	-
1981	4,423	67.50	69,008	67.60	-	-	41.00	15.60

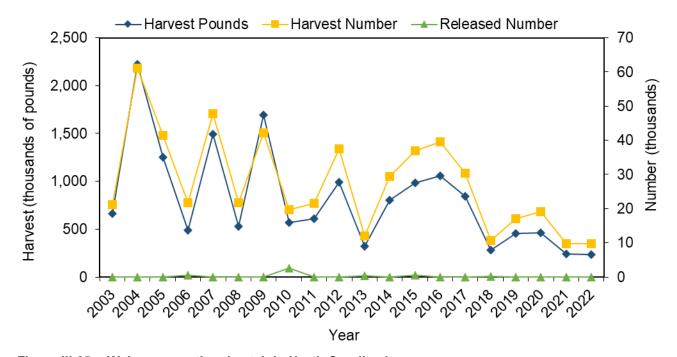


Figure III.65 Wahoo recreational catch in North Carolina by year.

Table III.71 Wahoo recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches)	Mean Weight (lb)
North Carolina	232,436	27.30	9,657	27.40	-	-	47.30	24.10
Florida	1,209,125	44.90	61,927	39.60	9,209	79.80	44.90	21.50
Maryland	48,894	85.40	893	85.40	-	-	71.00	54.80
South Carolina	1,106,445	50.00	46,087	48.20	1,587	83.90	47.30	24.00

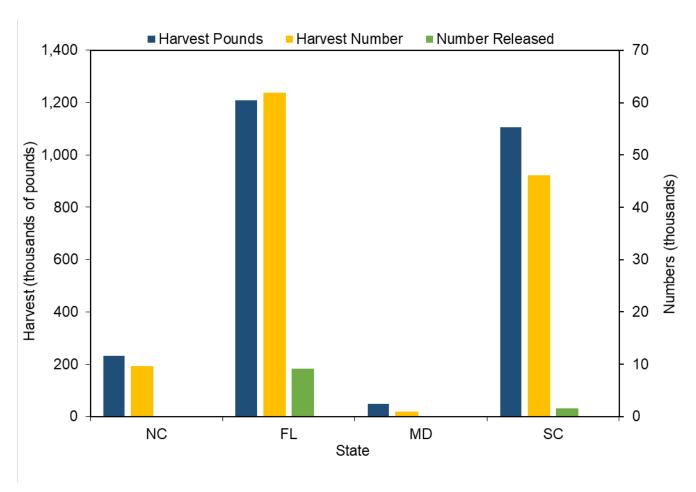


Figure III.66 Wahoo recreational catch by state, 2022.

Table III.72 Weakfish recreational catch in North Carolina by year.

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
2022	105,060	20.30	112,095	21.50	1,925,321	-	13.00	0.90
2021	103,449	20.00	91,032	19.00	1,030,828	-	14.00	1.10
2020	105,729	35.30	82,124	32.40	386,364	-	15.00	1.30
2019	43,252	22.00	39,061	21.40	269,146	-	14.50	1.10
2018	29,924	40.50	30,935	39.50	299,496	_	13.40	1.00
2017	55,944	26.50	51,795	23.60	351,613	-	14.20	1.10
2016	83,702	26.30	77,341	25.80	1,097,615	-	14.00	1.10
2015	157,269	26.50	143,543	26.60	1,652,582	-	14.00	1.10
2014	70,988	24.50	71,912	24.80	1,067,344	-	13.80	1.00
2013	66,720	23.20	63,090	24.20	257,367	-	14.20	1.10
2012	95,952	22.00	96,947	26.40	396,620	_	13.80	1.00
2011	62,543	26.60	48,727	24.90	380,366	-	14.70	1.30
2010	103,903	17.40	110,770	16.90	914,004	-	13.60	0.90
2009	245,358	28.80	204,814	23.50	626,742	-	14.80	1.20
2008	209,470	22.80	203,779	22.00	470,805	-	13.80	1.00
2007	202,583	19.80	191,192	19.70	600,987	-	14.20	1.10
2006	302,775	19.60	343,092	18.10	1,047,135	_	13.60	0.90
2005	281,710	20.00	297,605	19.50	702,685	_	14.00	0.90
2004	428,627	18.40	395,268	18.50	614,762	-	14.50	1.10
2003	309,412	17.60	291,168	18.40	422,294	-	14.10	1.10
2002	215,402	23.80	214,040	21.80	917,803	-	13.90	1.00
2001	325,447	20.10	317,974	19.00	2,831,044	-	14.10	1.00
2000	179,599	20.10	147,397	19.20	852,262	_	14.80	1.20
1999	420,706	17.70	313,427	15.60	687,884	-	15.40	1.30
1998	487,884	25.30	450,645	21.80	669,125	-	14.30	1.10
1997	313,767	15.20	333,852	13.90	506,509	-	13.60	0.90
1996	121,291	18.40	138,577	18.00	361,153	-	14.00	0.90
1995	118,177	25.10	103,190	24.80	225,976	-	15.20	1.10
1994	276,435	18.30	336,188	18.10	477,521	_	13.20	0.80
1993	230,010	43.90	293,966	43.20	157,478	-	12.50	0.80
1992	53,214	24.90	72,064	27.20	69,585	-	12.30	0.70
1991	286,349	31.10	358,273	33.60	32,083	-	12.00	0.80
1990	104,761	19.40	149,508	20.40	30,295	-	12.20	0.70
1989	331,840	26.60	456,191	24.00	65,500	-	12.00	0.70
1988	175,178	53.00	650,224	24.30	175,284	_	12.70	0.30
1987	3,442,746	61.50	2,403,361	53.90	250,581	-	15.10	1.40
1986	1,455,912	27.10	2,049,746	28.90	694,759	-	13.00	0.70
1985	796,974	23.20	1,010,772	17.90	2,638	-	12.00	0.80
1984	252,873	29.00	555,640	38.30	35,101	-	10.90	0.50

¹ Seatrout releases are not recorded to species; released number was calculated by assigning a ratio of observed seatrout by species to reported seatrout genus release estimates. PSEs are not available for this analysis.

Table III.72 Weakfish recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number ¹	PSE (release) ¹	Mean Length (inches)	Mean Weight (lb)
1983	749,910	64.70	596,354	48.60	16,387	-	13.90	1.30
1982	348,645	64.90	255,080	57.00	61,048	-	13.90	1.40
1981	1,130,066	21.60	1,623,557	17.60	78,196	-	11.80	0.70

¹ Seatrout releases are not recorded to species; released number was calculated by assigning a ratio of observed seatrout by species to reported seatrout genus release estimates. PSEs are not available for this analysis.

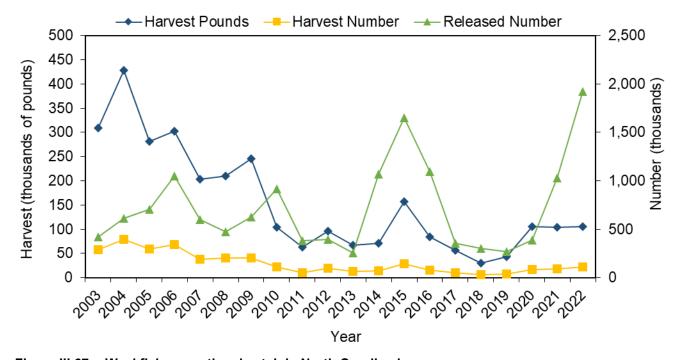


Figure III.67 Weakfish recreational catch in North Carolina by year.

Table III.73 Weakfish recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Mean Length (inches)	Mean Weight (lb)
North Carolina	105,060	20.30	112,095	21.50	13.30	0.90
Connecticut	2,307	60.10	759	61.30	20.60	3.00
Delaware	7,816	55.80	5,729	47.40	14.80	1.40
Florida	23,255	55.40	33,824	55.40	12.30	0.70
Georgia	2,109	76.70	2,055	78.30	14.00	1.00
Maryland	2,092	101.00	1,290	101.00	16.20	1.60
New Jersey	32,221	57.40	28,813	55.50	14.20	1.10
New York	207,878	46.40	58,895	39.20	21.30	3.50
Rhode Island	1,161	71.00	658	71.00	16.40	1.80
South Carolina	83,000	67.90	76,100	73.80	14.30	1.10
Virginia	141,037	80.60	46,864	57.80	19.20	3.00

¹Released seatrout are not always recorded to species level. Numbers released are not shown by state.

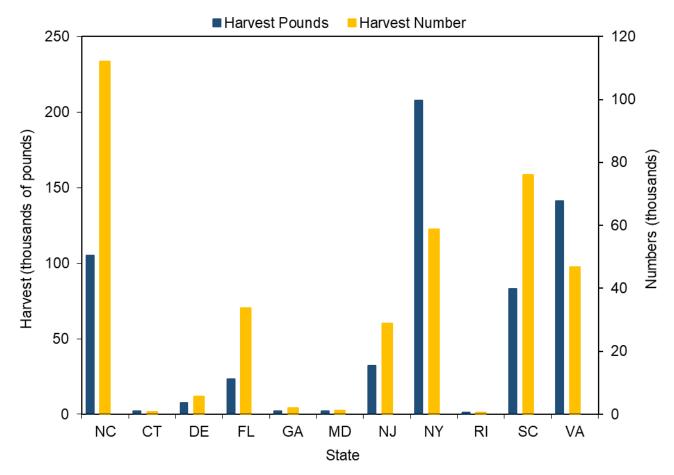


Figure III.68 Weakfish recreational catch by state, 2022.

Table III.74 Large coastal shark recreational catch in North Carolina by year.

	Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
2022	-	-	-	-	18,735	98.40	-	-
2021	594	100.80	6	100.80	22,576	97.50	-	-
2020	551	100.80	9	100.80	7,905	38.00	-	-
2019	3,745	72.10	60	72.10	26,010	44.00	-	-
2018	235	95.80	7	95.80	3,845	70.40	-	-
2017	27,367	83.40	910	79.60	43,041	43.70	-	-
2016	1,100	101.00	12	101.00	27,885	54.30	-	-
2015	2,667	101.30	25	72.80	139,486	66.10	-	-
2014	10,194	91.40	556	89.40	16,306	42.20	-	-
2013	11,128	113.40	59	113.40	7,976	39.70	-	-
2012	1,997	70.70	1,283	99.70	18,205	77.80	-	-
2011	732	100.00	474	100.00	14,797	88.80	-	-
2010	211	102.80	120	102.80	24,902	56.90	-	-
2009	-	-	-	-	5,837	96.30	-	-
2008	794	103.60	51	103.60	-	-	-	-
2007	30,985	69.70	2,543	68.00	32,680	45.00	-	-
2006	10,744	101.30	187	101.30	13,825	66.20	-	-
2005	50,494	95.60	859	95.60	10,540	50.20	-	-
2004	-	-	-	-	411	99.90	-	-
2003	8,931	65.30	863	67.00	1,177	70.20	-	-
2002	1,837	98.70	442	98.70	1,134	69.30	-	-
2001	28,312	56.80	2,166	87.60	163	87.20	-	-
2000	46,249	63.20	1,764	50.10	-	-	-	-
1999	95,377	83.20	2,495	54.20	965	98.30	-	-
1998	25,326	51.90	3,780	43.60	3,673	52.90	-	-
1997	87,789	94.60	721	58.20	32,999	38.40	-	-
1996	113,498	37.30	7,638	37.00	29,114	31.50	-	-
1995	124,592	38.70	8,985	31.30	64,271	36.00	-	-
1994	137,810	39.20	11,657	31.90	29,215	44.70	-	-
1993	37,634	36.30	4,052	45.50	57,695	41.00	-	-
1992	7,990	39.50	2,095	56.30	57,956	75.40	-	-
1991	102,246	36.50	15,670	34.50	57,550	54.80	-	-
1990	20,433	34.70	2,810	35.50	12,977	61.40	-	-
1989	168,845	54.70	16,585	33.90	9,815	46.60	-	-
1988	7,608	88.10	16,447	48.10	5,253	50.10	-	-
1987	93,844	57.30	6,119	44.40	99,971	56.10	-	-
1986	133,150	80.10	12,477	82.50	63,759	65.90	-	-
1985	379,366	87.60	11,400	59.20	49,198	54.80	-	-
1984	-	-	-	-	149,482	89.30	-	-

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

Table III.74 Large coastal shark recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
1983	7,116	107.20	2,152	107.20	-	-	-	-
1982	376,725	83.50	1,974	68.50	10,495	107.90	-	-
1981	1,136,050	85.10	43,257	52.90	575,152	79.40	-	_

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

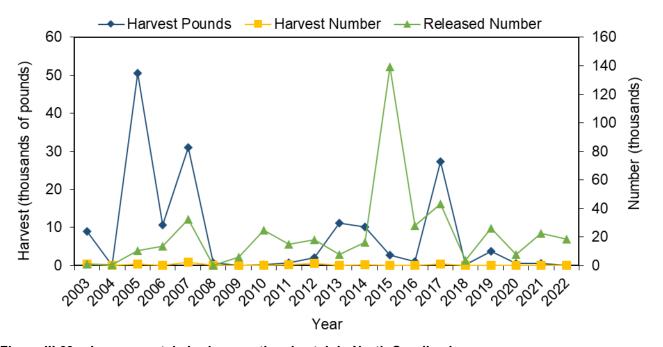


Figure III.69 Large coastal shark recreational catch in North Carolina by year.

Table III.75 Large coastal shark recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
Florida	158,757	67.60	32,127	96.50	118,118	34.90	-	-
Georgia	945	102.90	11,832	67.20	449,097	31.50	-	-
South Carolina	49,895	73.60	1,006	73.60	17,543	54.00	-	-

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

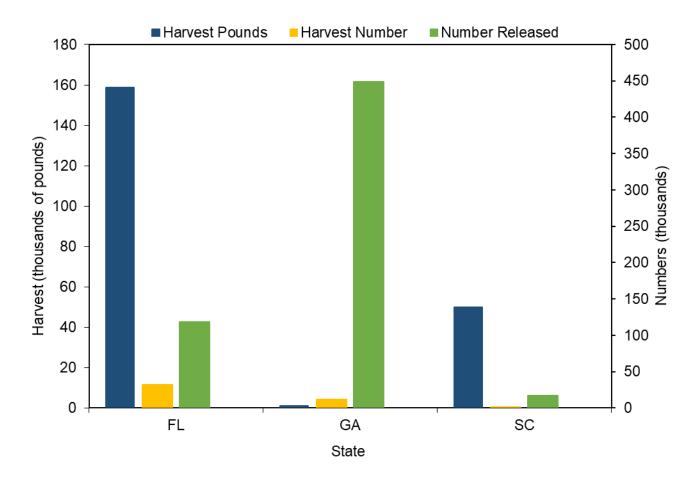


Figure III.70 Large coastal shark recreational catch by state, 2022.

Table III.76 Small coastal shark recreational catch in North Carolina by year.

	Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE	Released Number	PSE (rolessa)	Mean Length	Mean Weight
2021 24,241 53.90 3,556 57,70 21,045 44.90 - - 2020 21,114 56.00 5,074 70.20 16,563 50.90 - - 2018 106,765 75.80 13,736 70.80 34,952 36.10 - - 2018 9,097 40.90 1,678 38.90 4,496 39.50 - - 2016 2,545 63.40 514 66.60 133,214 57.00 - - 2015 38,499 44,30 6,666 41,30 15,866 70.40 - - 2014 24,060 43.90 7,420 56.70 2,043 57.50 - - 2013 13,474 48.00 2,171 45.90 16,772 42.10 - - 2013 13,474 48.00 1,209 42.50 37,273 43.50 - - 2011 7,659 44.00					(num)		(release)	(inches)1	
2020 21,114 56,00 5,074 70,20 16,563 50,90 - - 2019 106,765 75,80 13,736 70,80 34,952 36.10 - - 2017 19,256 42,30 5,768 56,50 58,440 60.50 - - 2016 2,545 63,40 514 66,60 133,214 57.00 - - 2014 24,060 43,90 7,420 56,70 2,043 57.50 - - 2013 13,474 48,00 2,171 45,90 16,772 42,10 - - 2011 7,659 44.00 1,209 42,50 37,276 33.10 - - 2011 7,659 44.00 1,209 42,50 37,276 33.10 - - 2010 21,878 37.10 4,654 46,50 107,135 66,60 - - 2008 30,675 60.80 <td>2022</td> <td></td> <td></td> <td></td> <td>49.10</td> <td></td> <td></td> <td>-</td> <td>-</td>	2022				49.10			-	-
2019 106,765 75.80 13,736 70.80 34,952 36.10 - - 2018 9,097 40,90 1,678 38.90 4,496 39.50 - - 2017 19,256 42.30 5,768 56.50 58,440 60.50 - - 2015 38,499 44.30 6,656 41.30 15,866 70.40 - - 2014 24,060 43.90 7,420 56.70 2,043 57.50 - - 2013 13,474 48.00 2,171 45.90 16,772 42.10 - - 2011 7,659 44.00 1,209 42.50 37,276 33.10 - - 2010 21,878 37.10 4,654 46.50 107,135 66.60 - - 2009 51,183 48.70 5,532 41.10 5,334 62.70 - - - 2007 47,902	2021							-	-
2018 9,097 40,90 1,678 38,90 4,496 39,50 - - 2017 19,256 42,30 5,768 56,50 58,440 60,50 - - 2015 38,499 44,30 6,656 41,30 15,866 70,40 - - 2014 24,060 43,90 7,420 56,70 2,043 57,50 - - 2013 13,474 48,00 2,171 45,90 16,772 42,10 - - 2011 7,659 44,00 1,209 42,50 37,276 33,10 - - 2010 21,878 37,10 4,654 46,50 107,135 66,60 - - 2008 30,675 60,80 5,421 62,90 - - - - 2007 47,902 48,90 6,784 50,90 58,571 38,80 - - - 2005 15,014 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td></td<>								-	-
2017 19,256 42,30 5,768 56,50 58,440 60,50 - - 2016 2,545 63,40 514 66,60 133,214 57,00 - - 2015 38,499 44,30 6,656 41,30 15,866 70,40 - - 2014 24,060 43,90 7,420 56,70 2,043 57,50 - - 2013 13,474 48,00 2,171 45,90 16,772 42,10 - - 2011 7,659 44,00 1,209 42,50 37,276 33,10 - - 2011 7,659 44,00 1,209 42,50 37,276 33,10 - - 2010 21,878 37,10 4,654 46,50 107,135 66,60 - - 2008 30,675 60,80 5,421 62,90 - - - - 2007 47,902 48,90	2019	106,765	75.80	13,736	70.80	34,952	36.10	-	-
2016 2,545 63.40 514 66.60 133,214 57.00 - - 2015 38,499 44.30 6,656 41.30 15,866 70.40 - - 2014 24,060 43.90 7,420 56.70 2,043 57.50 - 2013 13,474 48.00 2,171 45.90 16,772 42.10 - - 2012 11,804 48.40 2,082 47.50 7,733 43.50 - - 2011 7,659 44.00 1,209 46.50 107,135 66.60 - - 2010 21,878 37,10 4,654 46.50 107,135 66.60 - - 2009 51,183 48.70 5,532 41.10 5,334 62.70 - - - 2007 47,902 48.90 6,784 50.90 58,571 38.80 - - - 2005 15,014	2018	•						-	-
2015 38,499 44.30 6,656 41.30 15,866 70.40 - - 2014 24,060 43.90 7,420 56.70 2,043 57.50 - - 2013 13,474 48.00 2,171 45.90 16,772 42.10 - - 2011 7,659 44.00 1,209 42.50 37,276 33.10 - - 2010 21,878 37.10 4,654 46.50 107,135 66.60 - - - 2008 30,675 60.80 5,421 62.90 - - - - - 2007 47,902 48.90 6,784 50.90 58,571 38.80 - - - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - - 2004 24,421 59.80 3,291 58.00 - - - -	2017							-	-
2014 24,060 43.90 7,420 56.70 2,043 57.50 - - 2013 13,474 48.00 2,171 45.90 16,772 42.10 - - 2012 11,804 48.40 2,082 47.50 7,733 43.50 - - 2011 7,659 44.00 1,209 42.50 37,276 33.10 - - 2010 21,878 37.10 4,654 46.50 107,135 66.60 - - - 2008 30,675 60.80 5,421 62.90 - - - - - 2007 47,902 48.90 6,784 50.90 5,631 72.20 - - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - - 2004 24,421 59.80 3,291 58.00 - - - - <	2016						57.00	-	-
2013 13,474 48.00 2,171 45.90 16,772 42.10 - - 2012 11,804 48.40 2,082 47.50 7,733 43.50 - - 2011 7,659 44.00 1,209 42.50 37,276 33.10 - - 2010 21,878 37.10 4,654 46.50 107,135 66.60 - - 2009 51,183 48.70 5,532 41.10 5,334 62.70 - - 2008 30,675 60.80 5,421 62.90 - - - - 2007 47,902 48.90 6,784 50.90 5,631 72.20 - - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - - 2004 24,421 59.80 3,291 58.00 - - - - 2004 24,421	2015	38,499	44.30	6,656	41.30	15,866	70.40	-	-
2012 11,804 48.40 2,082 47.50 7,733 43.50 - - 2011 7,659 44.00 1,209 42.50 37,276 33.10 - - 2010 21,878 37.10 4,654 46.50 107,135 66.60 - - 2008 30,675 60.80 5,421 62.90 - - - - 2007 47,902 48.90 6,784 50.90 5,631 72.20 - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - 2004 24,421 59.80 3,291 58.00 - - - - 2004 24,421 59.80 3,291 58.00 - - - - 2003 85,339 67.20 12,658 72.70 - - - - 2001 30,301 44.80 4.285 <	2014	24,060	43.90	7,420	56.70	2,043	57.50	-	-
2011 7,659 44.00 1,209 42.50 37,276 33.10 - - 2010 21,878 37.10 4,654 46.50 107,135 66.60 - - 2009 51,183 48.70 5,532 41.10 5,334 62.70 - - 2008 30,675 60.80 5,421 62.90 - - - 2007 47,902 48.90 6,784 50.90 5,631 72.20 - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - 2005 15,014 92.50 1,682 90.40 3,519 81.20 - - 2004 24,421 59.80 3,291 58.00 - - - - 2003 85,339 67.20 12,658 72.70 - - - - 2001 30,301 44.80 2,428 73.80 <td>2013</td> <td>13,474</td> <td>48.00</td> <td>2,171</td> <td>45.90</td> <td>16,772</td> <td>42.10</td> <td>-</td> <td>_</td>	2013	13,474	48.00	2,171	45.90	16,772	42.10	-	_
2010 21,878 37.10 4,654 46.50 107,135 66.60 - - 2009 51,183 48.70 5,532 41.10 5,334 62.70 - - 2008 30,675 60.80 5,421 62.90 - - - - 2007 47,902 48.90 6,784 50.90 58,571 38.80 - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - 2005 15,014 92.50 1,682 90.40 3,519 81.20 - - 2004 24,421 59.80 3,291 58.00 - - - - 2004 24,421 59.80 3,291 58.00 - - - - 2002 16,620 48.90 2,184 46.70 - - - - 2001 30,301 44.80 4,285 <	2012	11,804	48.40	2,082	47.50	7,733	43.50	-	-
2009 51,183 48.70 5,532 41.10 5,334 62.70 - - 2008 30,675 60.80 5,421 62.90 - - - - 2007 47,902 48.90 6,784 50.90 56.31 72.20 - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - 2005 15,014 92.50 1,682 90.40 3,519 81.20 - - 2004 24,421 59.80 3,291 58.00 - - - - 2003 85,339 67.20 12,658 72.70 - - - - 2001 30,301 44.80 4,285 43.80 - - - - 2001 30,301 44.80 4,285 43.80 - - - - 2001 9,193 65.60 2,428 73.80 <td>2011</td> <td>7,659</td> <td>44.00</td> <td>1,209</td> <td>42.50</td> <td>37,276</td> <td>33.10</td> <td>-</td> <td>-</td>	2011	7,659	44.00	1,209	42.50	37,276	33.10	-	-
2008 30,675 60.80 5,421 62.90 -	2010	21,878	37.10	4,654	46.50	107,135	66.60	-	-
2007 47,902 48.90 6,784 50.90 5,631 72.20 - - 2006 51,377 68.80 7,640 69.90 58,571 38.80 - - 2005 15,014 92.50 1,682 90.40 3,519 81.20 - - 2004 24,421 59.80 3,291 58.00 - - - - - 2003 85,339 67.20 12,658 72.70 - - - - - 2002 16,620 48.90 2,184 46.70 - - - - - 2001 30,301 44.80 4,285 43.80 - - - - - 1999 1,085 72.10 374 71.90 - - - - - - 1998 6,855 45.00 7,565 63.20 - - - - - <	2009	51,183	48.70	5,532	41.10	5,334	62.70	-	-
2006 51,377 68.80 7,640 69.90 58,571 38.80 - - 2005 15,014 92.50 1,682 90.40 3,519 81.20 - - 2004 24,421 59.80 3,291 58.00 - - - - 2003 85,339 67.20 12,658 72.70 - - - - 2002 16,620 48.90 2,184 46.70 - - - - 2001 30,301 44.80 4,285 43.80 - - - - 2000 9,193 65.60 2,428 73.80 - - - - 1999 1,085 72.10 374 71.90 - - - - 1999 1,085 72.10 374 71.90 - - - - 1999 1,685 45.00 7,565 63.20 -	2008	30,675	60.80	5,421	62.90	-	-	-	-
2005 15,014 92.50 1,682 90.40 3,519 81.20 -	2007	47,902	48.90	6,784	50.90	5,631	72.20	-	-
2004 24,421 59.80 3,291 58.00 -	2006	51,377	68.80	7,640	69.90	58,571	38.80	-	-
2003 85,339 67.20 12,658 72.70 -	2005	15,014	92.50	1,682	90.40	3,519	81.20	-	-
2002 16,620 48.90 2,184 46.70 - - - - - 2001 30,301 44.80 4,285 43.80 - - - - - 2000 9,193 65.60 2,428 73.80 - - - - - 1999 1,085 72.10 374 71.90 - - - - - 1998 6,855 45.00 7,565 63.20 - - - - - 1997 14,007 74.10 5,959 71.60 - </td <td>2004</td> <td>24,421</td> <td>59.80</td> <td>3,291</td> <td>58.00</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	2004	24,421	59.80	3,291	58.00	-	-	-	-
2002 16,620 48.90 2,184 46.70 -	2003	85,339	67.20	12,658	72.70	-	-	-	-
2000 9,193 65.60 2,428 73.80 - - - - - 1999 1,085 72.10 374 71.90 -		16,620	48.90	2,184	46.70	-	-	-	-
1999 1,085 72.10 374 71.90 - - - - - 198 6,855 45.00 7,565 63.20 -	2001	30,301	44.80	4,285	43.80	-	-	-	-
1999 1,085 72.10 374 71.90 - - - - - 198 6,855 45.00 7,565 63.20 -	2000	9,193	65.60		73.80	-	-	-	-
1997 14,007 74.10 5,959 71.60 -		1,085	72.10	374	71.90	-	-	-	-
1997 14,007 74.10 5,959 71.60 -	1998	6,855	45.00	7,565	63.20	-	-	-	-
1995 -		14,007	74.10	5,959	71.60	-	-	-	-
1994 57,075 82.00 3,226 66.30 - - - - - 1993 117 100.70 14 100.70 -	1996	-	-	-	-	-	-	-	-
1994 57,075 82.00 3,226 66.30 - - - - - 1993 117 100.70 14 100.70 -	1995	-	-	-	-	-	-	-	-
1992 22,658 56.40 2,898 56.80 - - - - - 1991 2,176 78.80 2,460 78.80 - - - - - 1990 1,665 72.90 728 62.10 402 96.30 - - 1989 5,386 66.90 6,967 75.20 797 100.00 - - 1988 8,476 101.60 919 101.60 - - - - - 1987 2,114 96.60 328 96.60 - - - - - 1986 - - - - - - - -	1994	57,075	82.00	3,226	66.30	-	-	-	-
1992 22,658 56.40 2,898 56.80 - - - - - 1991 2,176 78.80 2,460 78.80 - - - - - 1990 1,665 72.90 728 62.10 402 96.30 - - 1989 5,386 66.90 6,967 75.20 797 100.00 - - 1988 8,476 101.60 919 101.60 - - - - - 1987 2,114 96.60 328 96.60 - - - - - 1986 - - - - - - - -	1993	117	100.70	14	100.70	-	-	-	-
1991 2,176 78.80 2,460 78.80 - - - - - 1990 1,665 72.90 728 62.10 402 96.30 - - 1989 5,386 66.90 6,967 75.20 797 100.00 - - 1988 8,476 101.60 919 101.60 - - - - - 1987 2,114 96.60 328 96.60 - - - - - 1986 - - - - - - - -	1992	22,658		2,898	56.80	-	-	-	-
1990 1,665 72.90 728 62.10 402 96.30 - - 1989 5,386 66.90 6,967 75.20 797 100.00 - - 1988 8,476 101.60 919 101.60 - - - - - 1987 2,114 96.60 328 96.60 - - - - - 1986 - - - - - - - -	1991		78.80	2,460	78.80	-	-	-	-
1989 5,386 66.90 6,967 75.20 797 100.00 - - 1988 8,476 101.60 919 101.60 - - - - - 1987 2,114 96.60 328 96.60 - - - - - 1986 - - - - - - - -		1,665			62.10	402	96.30	-	-
1988 8,476 101.60 919 101.60 - - - - - 1987 2,114 96.60 328 96.60 - - - - - - 1986 - - - - - - - -				6,967	75.20	797	100.00	-	_
1987 2,114 96.60 328 96.60 - - - - - - 1986 - - - - - - - -							-	-	-
1986		•				-	-	-	-
		-	_	-	_	_	_	_	-
		1,925	96.30	55	96.30	-	-	-	-
1984		-	-	-	-	-	-	-	-

¹Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

Table III.76 Small coastal shark recreational catch in North Carolina by year (continued).

Year	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
1983	-	-	-	-	-	-	_	-
1982	-	_	-	-	-	-	-	-
1981	-	-	_	_	_	-	-	_

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

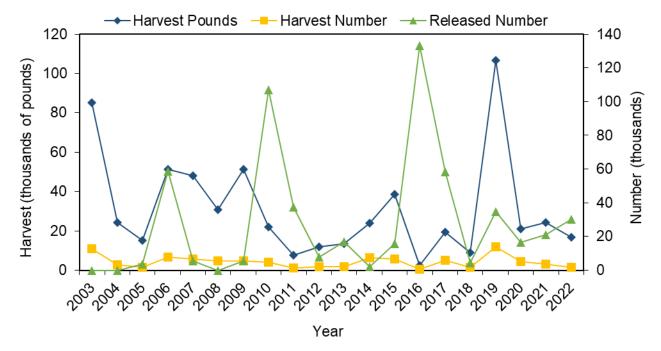


Figure III.71 Small coastal shark recreational catch in North Carolina by year.

Table III.77 Small coastal shark recreational catch by state, 2022.

State	Harvest Pounds	PSE (lb)	Harvest Number	PSE (num)	Released Number	PSE (release)	Mean Length (inches) ¹	Mean Weight (lb) ¹
North Carolina	16,909	51.10	1,698	49.10	30,202	57.20	-	=
Florida	87,954	33.20	6,780	39.60	378,985	38.50	-	-
Georgia	96,210	72.10	9,346	68.60	539,262	17.30	-	-
South Carolina	104,041	23.60	14,897	23.10	50,238	36.90	-	-
Virginia								

¹ Multiple species of sharks are reported for this category, mean length and weight by individual species of shark are available upon request.

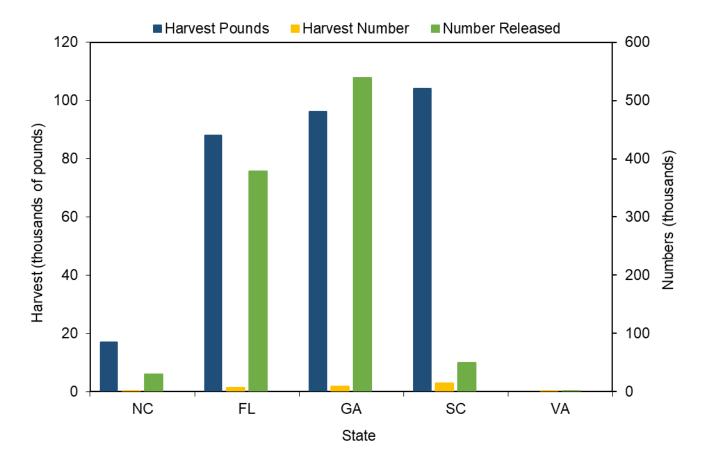


Figure III.72 Small coastal shark recreational catch by state, 2022

Table III.78 Reported North Carolina highly migratory species landings (numbers).

Year	Blue Marlin	White Marlin	Sailfish	Swordfish	Total
2022	27	0	4	25	56
2021	32	1	2	18	53
2020	21	1	5	12	39
2019	28	0	8	66	102
2018	28	1	9	10	48
2017	16	3	3	5	27
2016	23	0	4	6	33
2015	23	2	0	0	25
2014	15	0	0	0	15
2013	10	0	3	0	13
2012	20	0	0	1	21
2011	9	3	2	0	14
2010	14	2	1	0	17
2009	11	0	0	2	13
2008	24	1	0	0	25
2007	4	0	0	2	6
2006	12	0	0	0	12
2005	14	0	0	0	14
2004	8	0	0	0	8
2003	16	2	0	1	19
Grand Total	355	16	41	148	560

Table III.79 Reported North Carolina recreational Atlantic Bluefin Tuna landings¹ (numbers).

2022 15 1 0 0 18 1 35 2021 19 5 - 3 - 5 32 2020 12 2 0 0 0 3 17 2019 50 0 0 0 19 61 2018 32 0 0 0 1 33 2017 37 2 0 0 0 - 39 2016 62 10 0 0 0 2 74 2015 28 13 0 0 0 3 44 2014 62 3 0 2 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 8 579 2009 79 55 0 0 0 135	Year	Mante o/ Orego n Inlet	Hatter as	Ocrac oke	Moreh ead City	Wilmington South	Call-In	Total
2020 12 2 0 0 0 3 17 2019 50 0 0 0 19 61 2018 32 0 0 0 1 33 2017 37 2 0 0 0 - 39 2016 62 10 0 0 0 2 74 2015 28 13 0 0 0 3 44 2014 62 3 0 2 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2008 72 51 0 8 0 1 135 2008 72 51 0 8 0 1 </td <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>18</td> <td></td> <td></td>				0	0	18		
2019 50 0 0 0 19 61 2018 32 0 0 0 1 33 2017 37 2 0 0 - 39 2016 62 10 0 0 2 74 2015 28 13 0 0 3 44 2014 62 3 0 2 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175	2021		5	-	3	-	5	32
2018 32 0 0 0 1 33 2017 37 2 0 0 - 39 2016 62 10 0 0 2 74 2015 28 13 0 0 3 44 2014 62 3 0 2 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 0 3 201 2012 143 40 1 0 0 3 201 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 0 0 3 <t< td=""><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td></t<>				0				
2017 37 2 0 0 - 39 2016 62 10 0 0 2 74 2015 28 13 0 0 0 3 44 2014 62 3 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 3 <td< td=""><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>19</td><td></td></td<>			0	0	0	0	19	
2016 62 10 0 0 2 74 2015 28 13 0 0 3 44 2014 62 3 0 2 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 3 0 2004 0 0 0 19	2018	32	0	0	0	0	1	33
2015 28 13 0 0 3 44 2014 62 3 0 2 69 2013 150 48 0 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 3 2004 0 0 0 19 0 1 20 2003 0 7 0 86 0 99	2017	37	2	0	0	0	-	39
2014 62 3 0 2 69 2013 150 48 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0		62	10	0	0	0		74
2013 150 48 0 0 3 201 2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82	2015		13	0		0	3	44
2012 143 40 1 0 2 3 189 2011 158 164 0 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82		62	3	0	2	0	2	
2011 158 164 0 0 6 328 2010 378 193 0 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82	2013	150	48	0	0	0	3	201
2010 378 193 0 0 8 579 2009 79 55 0 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82	2012	143	40	1	0	2	3	189
2009 79 55 0 0 1 135 2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82		158	164	0	0	0	6	
2008 72 51 0 8 0 1 132 2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82		378	193	0			8	
2007 122 41 0 9 3 0 175 2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82				0			1	
2006 0 13 0 13 5 0 31 2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82			51	0	8		1	
2005 0 1 0 29 0 0 30 2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82		122		0			0	
2004 0 0 0 19 0 1 20 2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82		0	13	0			0	
2003 0 7 0 86 6 0 99 2002 1 10 4 64 3 0 82	2005	0	1	0	29	0	0	30
2002 1 10 4 64 3 0 82		0	0	0	19		1	
	2003	0	7	0	86	6	0	99
2001 1 63 1 205	2002	1	10	4	64	3	0	82
	2001	1	63	1	205	20	3	293
2000 0 339 8 147 87 9 590	2000	0	339	8	147	87	9	590
1999 0 155 3 77 37 0 272	1999	0	155	3	77	37	0	272

¹ Does not include trophy category.

Table III.80 Atlantic Coast saltwater fishing trips by state and mode, 2022.

			Number o	f Trips		
State	Shore ¹	Private & Rental	Charter	Man Made ¹	Beach/Bank ¹	Total
Alabama	5,259,447	1,430,793	124,779			6,815,019
Connecticut	2401894	1,641,310	19,616			4,062,820
Delaware	1686189	657,702	2,144			2,346,035
Florida	22151311	12,863,981	287,851			35,303,143
Georgia	3416811	1,707,669	25,327			5,149,807
Maine	1339917	651,126	17,757			2,008,800
Maryland	4850234	3,199,794	161,665			8,211,693
Massachusetts	4708474	3,217,897	105,561			8,031,932
Mississippi	3,220,402	1,541,828	12,578			4,774,808
New Hampshire	557376	336,068	16,592			910,036
New jersey	8375965	5,344,168	73,204			13,793,337
New York	8847581	7,354,711	96,929			16,299,221
North Carolina		5,196,023	148,488	9,249,542	5,981,160	20,575,213
Rhode Island	1819090	1,023,740	20,811			2,863,641
South Carolina	7825890	2,847,710	134,464			10,808,064
Virginia	4189344	2,297,899	19,096			6,506,339

¹ Shore mode is separated into manmade and beach/bank in North Carolina only.

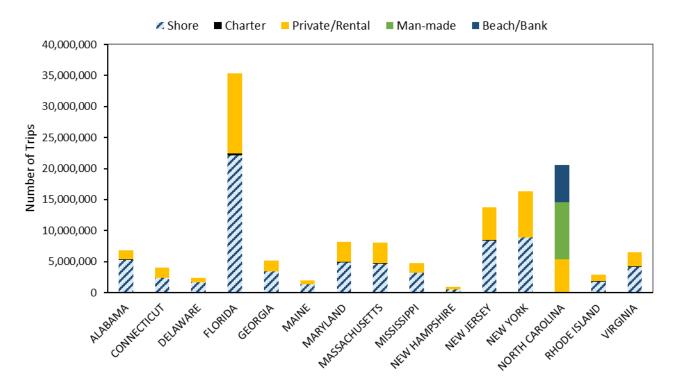


Figure III.73 Atlantic Coast saltwater fishing trips by state and mode, 2022.

 Table III.81
 Marine recreational fishing trips in North Carolina by mode.

	Number of Trips										
Year	Charter	PSE	Private & Rental	PSE	Man Made	PSE	PSE Beach & Bank		Total		
2022	148,342	342 8.90 5,196,023 5.40			9,249,542	8.50	5,981,160	11.40	20,575,067		
2021	158,800	6.30	4,482,582	4.00	7,905,354	7.10	5,397,877	10.10	17,943,838		
2020	214,822	5.10	5,413,655	6.60	5,228,098	7.80	5,542,658	10.30	16,399,233		
2019	160,692	5.40	4,646,520	4.40	6,021,580	7.80	6,711,048	10.00	17,539,840		
2018	148,004	6.00	4,279,389	5.00	5,317,495	7.10	6,879,419	12.50	16,624,306		
2017	149,438	6.30	5,044,731	7.90	9,512,489	7.80	7,745,619	11.20	22,452,276		
2016	140,575	6.50	4,860,391	5.80	5,970,329	6.40	10,187,550	8.70	21,158,845		
2015	114,043	11.60	4,992,920	5.70	8,516,390	6.40	6,699,488	15.40	20,322,840		
2014	96,432	6.10	4,895,957	5.10	6,014,374	6.10	7,919,735	7.30	18,926,498		
2013	111,366	5.60	4,847,955	4.40	7,097,673	5.30	6,028,869	6.20	18,085,863		
2012	159,160	9.10	5,054,638	4.20	6,184,923	5.00	7,156,627	3.50	18,555,347		
2011	129,380	9.00	5,212,669	4.30	6,040,312	4.60	8,086,490	4.30	19,468,851		
2010	138,577	5.10	4,982,732	3.80	7,174,395	4.20	7,877,619	3.90	20,173,322		
2009	129,412	6.00	4,822,295	4.10	6,642,257	6.00	7,751,222	7.60	19,345,187		
2008	170,428	7.20	4,599,900	3.80	6,067,854	6.50	8,489,916	6.30	19,328,098		
2007	185,618	6.40	4,671,856	3.90	7,105,305	7.00	6,183,367	6.60	18,146,146		
2006	201,368	6.10	4,542,632	3.70	7,671,720	7.40	7,199,224	7.10	19,614,943		
2005	214,826	10.10	4,359,576	4.20	7,369,215	8.60	5,206,759	9.40	17,150,375		
2004	183,039	6.40	4,276,395	4.40	6,245,702	8.30	6,695,734	5.80	17,400,870		
2003	131,566	14.60	3,746,771	3.60	6,243,796	5.60	5,353,909	5.30	15,476,042		
2002	142,644	12.30	3,539,123	4.10	5,913,968	5.70	5,501,125	5.00	15,096,860		
2001	160,791	12.90	3,363,853	3.40	6,105,185	6.20	5,479,658	4.60	15,109,487		
2000	164,116	12.40	3,388,516	3.80	6,088,224	5.70	5,687,088	3.80	15,327,944		
1999	200,350	11.60	3,153,794	4.30	5,113,589	4.70	4,215,059	4.30	12,682,792		
1998	189,664	11.50	2,806,930	4.10	4,435,131	5.30	3,677,092	4.30	11,108,817		
1997	242,043	11.40	2,742,087	3.70	4,552,528	4.60	3,618,411	3.60	11,155,069		
1996	204,608	11.50	2,471,857	3.60	3,895,335	5.40	3,851,521	3.90	10,423,321		
1995	167,321	14.10	2,222,995	3.70	3,958,161	5.10	3,643,176	3.80	9,991,653		
1994	177,061	13.30	2,231,472	3.60	4,246,772	5.40	3,874,950	4.80	10,530,255		
1993	117,536	12.50	2,233,903	3.70	4,105,818	5.90	4,404,924	4.40	10,862,180		
1992	87,352	14.80	2,277,847	3.90	5,097,113	6.20	4,403,691	5.60	11,866,004		
1991	81,065	17.80	2,240,961	4.20	4,406,694	5.70	4,497,351	5.80	11,226,071		
1990	83,234	21.40	2,164,387	3.80	4,526,403	8.70	5,338,764	7.00	12,112,788		
1989	94,199	19.60	2,137,255	3.70	3,955,450	7.10	4,485,729	8.20	10,672,633		
1988	65,320	44.20	2,009,639	4.10	3,960,772	9.80	4,444,539	15.30	10,480,270		
1987	89,642	38.40	1,867,135	4.00	2,510,303	9.70	4,566,175	11.00	9,033,255		
1986	101,447	27.60	2,076,308	5.40	2,733,767	10.00	4,260,280	16.40	9,171,802		
1985	226,397	34.50	1,753,973	8.20	3,323,582	12.20	3,569,600	13.50	8,873,553		
1984	226,710	30.50	1,798,108	6.10	4,027,935	13.50	3,335,089	14.40	9,387,842		

Table III.81 Marine recreational fishing trips in North Carolina by mode (continued).

	Number of Trips													
Year	Charter	PSE	Private & Rental	PSE	Man Made	PSE	Beach & Bank	PSE	Total					
1983	248,825	55.20	1,746,350	8.90	4,219,017	18.20	4,057,922	12.60	10,272,113					
1982	97,074	43.90	1,721,703	6.60	2,253,604	12.40	2,789,810	13.70	6,862,191					
1981	100,461	37.90	1,332,324	7.00	2,498,407	5.70	2,827,938	9.40	6,759,130					

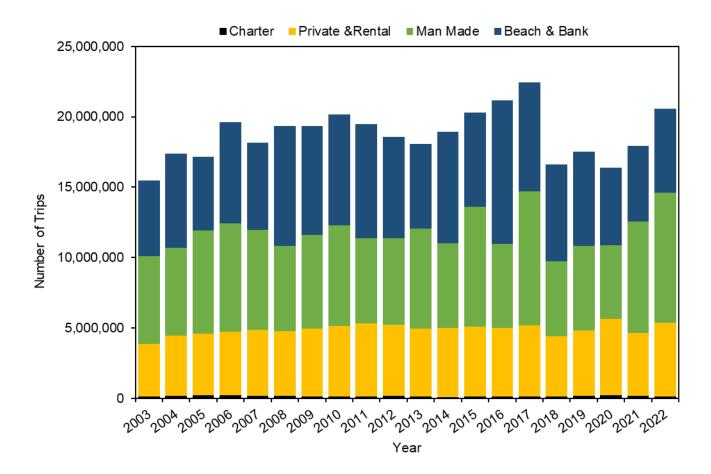


Figure III.74 Marine recreational fishing trips in North Carolina by mode.

Appendix III.1 NCDMF highly migratory species reporting stations.

Reporting Station	Location	Phone
Anchorage Marina	Atlantic Beach	252-726-4423
Captain Stacy's Fishing Center	Atlantic Beach	252-726-4675
Chasin Tails Outdoors Bait & Tackle	Atlantic Beach	252-240-3474
Seawater Marina	Atlantic Beach	252-726-1637
Olde Towne Yacht Club	Beaufort	252-726-3066
Town Creek Marina	Beaufort	252-728-6111
Hurricane Fishing Center	Calabash	910-579-3660
Harker's Island Fishing Center	Harker's Island	252-728-3907
Hatteras Harbor Marina	Hatteras	252-986-2166
Oden's Dock	Hatteras	252-986-2555
Teach's Lair Marina	Hatteras	252-986-2460
Holden Beach Marina	Holden Beach	910-842-5447
Oregon Inlet Fishing Center	Manteo	252-441-6301
Pirates Cove	Manteo	252-473-3906
Shallowbag Bay Marina	Manteo	252-305-8726
EJW Outdoors	Morehead City	252-247-4725
Carolina Princess	Morehead City	252-726-5479
Portside Marina	Morehead City	252-726-7678
Ocean Isle Fishing Center	Ocean Isle	910-575-3474
Anchorage Marina	Ocracoke	252-928-6661
New River Marina	Sneads Ferry	910-327-2106
Southport Marina	Southport	910-457-9900
Outer Banks Marina	Wanchese	252-473-9991
Creekside Yacht Club	Wilmington	910-350-0023
Bridge Tender Marina	Wrightsville Beach	910-256-6550
DMF HMS Technician	Mobile	252-495-1803
DMF Call-in	Main Office	800-682-2632

Appendix III.2 North Carolina APAIS Intercept Form.

6. INTERVIEW TIME (use 2400 clock) Time this interview was completed 2 Refused No 5 Refused No 7 Refused No 8 Refused No 7 Refused No 8 Refused No 9 Refused No	aire Complete ion-Key Item sey Item any question that you today?
4. DATE: MM/DD 2 0 2 3 9. SITE CODE 5. INTERCEPT NO. 6. INTERVIEW TIME (use 2400 clock) 10. INTERVIEW STATUS (Key 2400 clock) 1	aire Complete ion-Key Item sey Item any question that you today?
5. INTERCEPT NO. 6. INTERVIEW TIME (use 2400 clock) Time this interview was completed 2 Refused No. 5 Refused No. 5 Refused Key **TI. Would you say you were fishing from **11. Would you say you were fishing from 17. What species were you primarily fishing for to look 3 Bridge, Causeway 4 Other Man-made Structure (Specify) 5 Beach or Bank (Additional hours required in Q16) 2 Target 2 Target	aire Complete ion-Key Item sey Item any question that you today?
6. INTERVIEW TIME (use 2400 clock) Time this interview was completed 2 Refused No 5 Refused No 5 Refused Ke READ PRIVACY ACT. This study is being conducted in accordance with the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. *11. Would you say you were fishing from 17. What species were you primarily fishing for to 1 No Particular Species/Anything 18. Target 1 T	aire Complete ion-Key Item sey Item any question that you today?
(use 2400 clock) Refused No Refused Ke READ PRIVACY ACT: This study is being conducted in accordance with the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. *11. Would you say you were fishing from 17. What species were you primarily fishing for to the privacy of the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. *11. Would you say you were fishing from 17. What species were you primarily fishing for to the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. 17. What species were you primarily fishing for to the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. 17. What species were you primarily fishing for to the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. 18. Target 19. Target 20. Charlesbeat 21. Charlesbeat 22. Charlesbeat 23. Charlesbeat 24. Charlesbeat 25. Charlesbeat 26. Charlesbeat 26. Charlesbeat 27. Charlesbeat 28. Charlesbeat 29. Charlesbeat 29. Charlesbeat 20. Charlesbeat 20. Charlesbeat 20. Charlesbeat 20. Charlesbeat 20. Charlesbeat 20. Charlesbeat 21. Charlesbeat 22. Charlesbeat 23. Charlesbeat 24. Charlesbeat 26. Charlesbeat 27. Charlesbeat 28. Charlesbeat 29. Charles	sey Item any question that you today?
READ PRIVACY ACT: This study is being conducted in accordance with the privacy act of 1974. You are not required to answer as consider to be an invasion of your privacy. *11. Would you say you were fishing from 17. What species were you primarily fishing for to the privacy action of your privacy. 18. Would you say you were fishing from 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. What species were you primarily fishing for to the privacy action of your privacy. 19. Dock 20. Detty Breakwater 21. Charlestont	any question that you today?
*11. Would you say you were fishing from 17. What species were you primarily fishing for to the first of	
0 Pier 1 Dock No Particular Species/Anything 2 Jetty, Breakwater 3 Bridge, Causeway 4 Other Man-made Structure (Specify) 5 Beach or Bank (Additional hours required in Q16) 5 Death or Bank (Additional hours required in Q16) 2-d Target 2-d Target	
2 Jetty, Breakwater 3 Bridge, Causeway 4 Other Man-made Structure (Specify) 5 Beach or Bank (Additional hours required in Q16) 2-d Target 2-d Target	ns, that is since (insert
Structure (Specify) 5 Beach of Bank (Additional hours required in Q16) 2 ^{rid} Target	ns. that is since (insert
nours required in Q16) 2nd Target Charterboat	ns. that is since <i>(insert</i>
6 Headhoat 7 Charterhoat	ns. that is since (insert
	is, that is since (insert
8 Private Boat 9 Rental Boat 18. Not counting today, within the past 12 months	
11a. Did you see any sea turtles while fishing today? 1 Yes, alive 3 No No flast year, how many days have you gifinfishing in this state or from a boat launched	gone saltwater sport
Other (enter DMF waterbody code and code 013 as: %8") No. of days	Don't Know Refused
*13. Was that	
Three Miles or Less 8 Waterbody Does Not Apply 120. What is your state and county of residence? ask: What city or town do you live in?	r it county unknown,
More Than Three Miles State Code; Name:	
13a. Were you fishing near an Artificial Reef? 01 No 88 SH If yes, enter reef code County Code; Name:	
98=unknown 98=unknown 21 What is the 7IP code of your residence?	
13b. What was the length of the boat used (in feet)?	Foreign Country
14. What type of gear was primarily used? (Select one only)	Don't Know
01 Hook and Line 07 Trap 99999	Refused
02 Dip Net, A-frame 08 Spear 23a. Gender	
03 Cast Net 09 Hand Male	
04 Gill Net 10 Other (Specify) Female	
O5 Seine 98 Unknown 23b. How old were you on your last birthday?	
06 Trawl 99 Refused Age	
15a. To the nearest half-hour, how many hours have you spent (specify mode) fishing today? That is, how many hours have you actually spent with your gear in the water?	
Codes: INo. of Hours If: "Don't Know" = 99,8 If: Refused = 99,9	
15b. [If on boat] To the nearest half-hour, how many hours have you spent on the boat, away from the dock, today?	
No. of Hours If. "Don't Know" = 99.8 If. Refused = 99.9	
Not Applicable – SH mode	
16. [Ask, only if "Beach" or "Bank"] How many additional hours do you expect to fish from shore today? That is, how many more hours will you actually have your gear in the water?	
No. of Hours No	

Note: NCDMF stopped using paper surveys and transitioned to electronic methods in 2019.

Appendix III.2 North Carolina MRIP Intercept Form (continued).

24. In the	event ti oday, m											cond	uctin	g inte	rviews				(lf n	ame	and/or	phon	e num	ber n	ot
Angler		.,				T		T			Ť		Т	Т	Т	Т	Т	\neg	give	Na	10 = Si me an	d/or		num	ber
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Phone	Ш				L	\perp	<u> </u>	_			L			or	Ŏ				_	you	unger	(Che	ck bot	h bo	(es)
BOX B. [If headboat ride-along:] Is this one of the anglers you monitored for discard (Type 9) catch? Yes No Not a HB ride																									
	*25. <u>UNAVAILABLE CATCH</u> Did you catch any fish that are not here for me to look at? For example, any that you may have thrown back or used for balt? <u>NOTGROUP CATCH</u> - Only catch from Angler being interviewed.																								
4 71	Disposition Codes for Q25 1 - Thrown back alive 3 - Faten/olan to set 5 - Sold/olan to sell 7 - Some other numose																								
	1 - Thrown back alive 3 - Eaten/plan to eat 5 - Sold/plan to sell 7 - Some other purpose 2 - Thrown back - not legal 4 - Used/plan to use for bait 6 - Thrown back dead/plan to throw away TYPE 2 RECORDS: (CATCH UNAVAILABLE IN WHOLE FORM; FILLETS ARE UNAVAILABLE CATCH.)																								
TYPE 2 R	ECORD					BLE	IN W	HOL	E FOI	RM; F	ILLE	TS A					H.)								
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3.																									
4.										г	┪		T				+		Г			†		Г	\neg
5.										Г									Г			\top		Г	
*26. Did			fish v	while	you	were	fish	ing t	hat I i	might	be	*													ount
1	able to look at? Please do not include anyone who did not catch fish. Only count																								
2	No.	Code	Q27,	Q28,	Q29	as " N	lot Ap	plica	ble"							No. of Contrib	utors			88		No	t Appli	cable	Э
3		, BUT f				ngler'	's forr	n – F	Record	inter	view	· [вох	C. If C	Q11 is S	H mod	e, cod	e Q30	as "8	88,	and (Code	Вох С	as "	8."
Γ	# where fish are listed BOX C. If Q11 is SH mode, code Q30 as "888," and Code Box D as "8." Code Q27, Q28, Q29 as "Not Applicable" *30. Howmany people fished on your boat today?																								
*27. Did ye	*27. Did you catch these yourself or did someone else catch some of them?																								
1	1 All Caught by Angler - Code Q28, Q29 as "Not Applicable" *BOX D. If response to Q30 is 001, code as "Not Applicable." Other-																								
2 *28 Can	uring in this the flust angles from this heat that I have interviewed?																								
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2	No				8		No	t App	licabl	е			<u>L</u>			lo – Re	cora ii	nerviev	V # OI	ista	ingi ei ii	i ine i	isriing	oarty.	
*BOX E:	Is this c	harter	/headl	boat	on th	e Go	od Li	st?	П	Yes	Г	No		ssel n											
Ch	neck bo	t if ves	sel ha	as no	nam	ie AN	D no	regi:	stratio	on nu	ımbe	er. If cl		_	ration: 10 (Stat	us) = 5									
*31. <u>AVAI</u>	LABLE	CATC	<u> 1</u> – AS	K: M	ay I I	ook a	at you	ır fis	h? W	/hat d	lo yo	u pla	n to d	do wit	h the M	AJOR	TY of	the (s	peci	es)?					
	sition C		for Q3	1		Sold/p						NC	OTES	/COM	MENTS	:									
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TYPE 3 R	ECORE	S: (INI	DIVIDU	JAL (CATO	H AV	AILA	BLE	IN W	HOLE	FO	RM)													ġ
	Sp	ecies	Name					S	pecie	s Co	de		#	of Fis	h	Lengt	h (mn	n)	_	٧	Veight	t (kg)		Disp
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15.																									

Note: NCDMF stopped using paper surveys and transitioned to electronic methods in 2019.

Appendix III.3 North Carolina Fishing Effort Survey.

	HOUSEHOLD MEMBER 4		HOUSEHOLD MEMBER 5
E	1 What is this person's gender? ☐ Male ☐ Female		11 What is this person's gender? Male Female
E	How old is this person? If less than 1 year, mark 0 years Age in years		How old is this person? If less than 1 year, mark 0 years Age in years
E	3 Is this person of Hispanic, Latino, or Spanish origin? Yes, of Hispanic origin No, not of Hispanic origin		Is this person of Hispanic, Latino, or Spanish origin? Yes, of Hispanic origin No, not of Hispanic origin
	What is this person's race? Mark one or more boxes. White Black, African-American Asian American Indian or Alaska Native Native Hawaiian or other Pacific Islander		What is this person's race? Mark one or more boxes White Black, African-American Asian American Indian or Alaska Native Native Hawaiian or other Pacific Islander
	Please think only about recreational <u>saltwater</u> fishing in <u>North Carolina</u> .		Please think only about recreational <u>saltwater</u> fishing in <u>North Carolina</u> .
E	5 How many days did this person go recreational <u>saltwater</u> fishing from the SHORE in <u>North Carolina</u> ?	1	15 How many days did this person go recreational <u>saltwater</u> fishing from the SHORE in <u>North Carolina</u> ?
	The shore includes docks, bridges, causeways, beaches, banks, or any other shore-based place or area. Do not include freshwater fishing.		The shore includes docks, bridges, causeways, beaches, banks, or any other shore-based place or area. Do not include freshwater fishing.
	□ Did not recreational saltwater fish from shore in last 12 months → Go to question 16		□ Did not recreational saltwater fish from shore in last 12 months → Go to question 16
	Number of days saltwater shore fishing in January and February of 2018		Number of days saltwater shore fishing in January and February of 2018
	Number of days saltwater shore fishing in last 12 months, including January and February		Number of days saltwater shore fishing in last 12 months, including January and February
E	6 How many days did this person go recreational saltwater fishing from a private or rental BOAT that returned to shore in North Carolina?	1	16 How many days did this person go recreational saltwater fishing from a private or rental BOAT that returned to shore in North Carolina?
	Do not include freshwater trips or trips where a paid captain or crew helped locate and catch fish.		Do not include freshwater trips or trips where a paid captain or crew helped locate and catch fish.
	Did not recreational saltwater fish from private boat in last 12 months		Did not recreational saltwater fish from private boat in last 12 months
	Number of days saltwater boat fishing in January and February of 2018		Number of days saltwater boat fishing in January and February of 2018
	Number of days saltwater boat fishing in last 12 months, including January and February		Number of days saltwater boat fishing in last 12 months, including January and February
	If you have more people in your household, continue to Household Member 5. If you have		Please return your survey in the enclosed postage-paid envelope.
	answered for all people in your household, please return your survey.		RTI International 5265 Capital Boulevard, Raleigh NC 27690-1652

North Carolina

Weather and Outdoor Activity Survey











Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other suggestions for reducing this burden to Rob Andrews, NOAA Fisheries Service, 1315 East-West Hwy., Silver Spring, MD 20910.

No personally identifiable information will be collected through this survey. Responses will only be associated with a unique, randomly assigned identification code. Any public release of survey data will be without identification as to its source or in aggregate statistical form. All survey data will be stored on secured, password protected servers, and all transfer of survey data will utilize secure file transfer protocols.

Appendix III.3 North Carolina Fishing Effort Survey (continued).

return this form even if no one in your household		HOUSEHOLD MEMBER 1 (YOU)	HOUSEHOLD MEMBER 2	HOUSEHOLD MEMBER 3
♦ START HERE		11 What is your gender?	What is this person's gender?	11 What is this person's gender?
Please carefully follow the steps below when con	npleting this survey. Example	Male	Male	Male
Use only a blue or black ink pen that does no		Female	Female	Female
Make solid marks inside the response boxes	WAY WAY	12 How old are you?	12 How old is this person?	12 How old is this person?
Do not make other marks on the survey —	$\longrightarrow \stackrel{ullet}{oxtimes} \qquad \stackrel{ullet}{oxtimes} \qquad \qquad$	If less than 1 year, mark 0 years	If less than 1 year, mark 0 years	If less than 1 year, mark 0 years
5 Do not make other marks on the survey	/ L X	Age in years	Age in years	Age in years
1 How do members of this household obtain 7	Which of the following best describes how	Age in years	Age in years	Age in years
information about the weather, including	your household receives telephone calls?	13 Are you of Hispanic, Latino, or Spanish origin?	13 Is this person of Hispanic, Latino, or Spanish origin?	13 Is this person of Hispanic, Latino, or Spanish origin?
current weather conditions, forecasts, and warnings? Mark all that apply.	☐ All are received on cell phones	Yes, of Hispanic origin	Yes, of Hispanic origin	Yes, of Hispanic origin
Television	Most are received on cell phones	☐ No, not of Hispanic origin	☐ No, not of Hispanic origin	☐ No, not of Hispanic origin
Radio	Some are received on cell phones and some on landline phones	14 What is your race? Mark one or more boxes.	14 What is this person's race? Mark one or more boxes.	14 What is this person's race? Mark one or more boxes.
Newspaper	Most are received on landline phones	T □ White	T □ White	T ☐ White
☐ Internet	All are received on landline phones	☐ Black, African-American	☐ Black, African-American	☐ Black, African-American
Other	No calls are received on cell phones or	Asian	Asian	Asian
-	landline phones	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native
		☐ Native Hawaiian or other Pacific Islander	☐ Native Hawaiian or other Pacific Islander	☐ Native Hawaiian or other Pacific Islander
During the past 12 months, has anyone in this household had to evacuate or seek	house, apartment, or mobile home?	Please think only about recreational saltwater	Please think only about recreational saltwater	Please think only about recreational saltwater
shelter due to a severe weather event, such	Owned with a mortgage or loan Owned (without a mortgage)	fishing in North Carolina.	fishing in North Carolina.	fishing in North Carolina.
as a tornado, hurricane, or thunderstorm?	Rented	15 How many days did you go recreational	15 How many days did this person go	15 How many days did this person go
☐ Yes ☐ No	Occupied without payment or rent	saltwater fishing from the SHORE in	recreational saltwater fishing from the SHORE	recreational saltwater fishing from the SHORE
		North Carolina?	in North Carolina?	in North Carolina?
9	How long have you lived at this address?	The shore includes docks, bridges, causeways,	The shore includes docks, bridges, causeways,	The shore includes docks, bridges, causeways,
In your area, how often do the advanced warnings you get for severe weather events	1 year or less	beaches, banks, or any other shore-based place	beaches, banks, or any other shore-based place	beaches, banks, or any other shore-based place or area. Do not include freshwater fishing.
allow you enough time to prepare properly?	Less than 5 years, more than 1 year	or area. Do not include freshwater fishing.	or area. Do not include freshwater fishing.	
☐ All the Time	5 years or more	Did not recreational saltwater fish from shore in last 12 months → Go to question 16	☐ Did not recreational saltwater fish from shore in last 12 months → Go to question 16	□ Did not recreational saltwater fish from shore in last 12 months → Go to question 16
Some of the time		Number of days saltwater shore	Number of days saltwater shore	Number of days saltwater shore
Rarely 10	How many people, including all adults and children, live in this household?	fishing in January and February of	fishing in January and February of	fishing in January and February of
Never		2018	2018	2018
	Number of people	Number of days saltwater shore fishing in last 12 months, including	Number of days saltwater shore fishing in last 12 months, including	Number of days saltwater shore fishing in last 12 months, including
During the past 12 months, has anyone in		January and February	January and February	January and February
this household visited a public beach, national seashore, coastal state park, or	Please answer the next section for each	Ι	<u> L</u>	Ι
other coastal nature reserve or protected	member of your household, starting with	16 How many days did you go recreational saltwater fishing from a private or rental	16 How many days did this person go recreational saltwater fishing from a private or rental BOAT	16 How many days did this person go recreational saltwater fishing from a private or rental BOAT
area?	yourself. Please answer for all people in your home, including people who fish	BOAT that returned to shore in North Carolina?	that returned to shore in North Carolina?	that returned to shore in North Carolina?
☐ Yes ☐ No	and people who do not fish.			<u> </u>
I LINO	W	Do not include freshwater trips or trips where a paid captain or crew helped locate and catch fish.	Do not include freshwater trips or trips where a paid captain or crew helped locate and catch fish.	Do not include freshwater trips or trips where a paid captain or crew helped locate and catch fish.
<u></u>	If you have more than 5 people living at this address, answer for the oldest		,	
5 During the past 12 months, has anyone in this household been freshwater fishing in	members of the household.	Did not recreational saltwater fish from private boat in last 12 months	Did not recreational saltwater fish from private boat in last 12 months	☐ Did not recreational saltwater fish from private boat in last 12 months
North Carolina?	Please use the calendars to help answer	Number of days saltwater boat	Number of days saltwater boat	Number of days saltwater boat
Yes	questions 15 and 16.	fishing in January and February of	fishing in January and February of	fishing in January and February of
□No	January February	2018	2018	2018
	S M T W T F S S M T W T F S	Number of days saltwater boat fishing in last 12 months, including	Number of days saltwater boat fishing in last 12 months, including	Number of days saltwater boat fishing in last 12 months, including
6 During the past 12 months, has anyone in	1 2 3 4 5 6 1 2 3 7 8 9 10 11 12 13 4 5 6 7 8 9 10	January and February	January and February	January and February
this household been saltwater fishing in North Carolina?	14 15 16 17 18 19 20 11 12 13 14 15 16 17	If you have more people in your household,	If you have more people in your household,	If you have more people in your household,
Yes	21 22 23 24 25 26 27 18 19 20 21 22 23 24 28 29 30 31 25 26 27 28	continue to Household Member 2. If you have	continue to Household Member 3. If you have	continue to Household Member 4. If you have
No I	<i>)</i>	answered for all people in your household, please return your survey.	answered for all people in your household, please return your survey.	answered for all people in your household, please return your survey.
_		piease return your survey.	please return your survey.	piedse return your survey.

Appendix III.4 Glossary of terminology in MRIP survey.

Avidity: The frequency of fishing activity, measured as number of days on which fishing trips were made.

Type A catch: Fish that were caught, were landed whole, and were available for identification and enumeration by the interviewers. In addition, the fish were potentially available for weighing and measuring.

Type B catch: Fish that were caught but were either not kept or not available for identification.

Type B1 catch: Fish that were caught and filleted, released dead, given away, or disposed of in some way other than Types A or B2.

Type B2 catch: Fish that were caught and released alive.

Total catch: The number of fish caught but not necessarily brought ashore, may be obtained by summing catch types A and B or by summing catch types A, B1, and B2. The total number of fish removed from the fishery resource may be obtained by summing catch types A and B1.

Coastal counties: All counties in the coastal states of the United States with some portion within 25 miles of the coastline were included in the Fishing Effort Survey. This boundary was extended to 50 miles in the South Atlantic and Gulf of Mexico from May through October. The boundary was extended further in North Carolina to 50 miles November through April and 100 miles May through October.

Coastal resident: An angler who lived in a coastal county included in the Fishing Effort Survey.

Coastal state: A state bordering on the Atlantic or Pacific Ocean, the Gulf of Mexico or the Caribbean Sea. State also includes a Territory or Commonwealth.

Congener: An organism of the same taxonomic genus as another.

EEZ (U.S. Exclusive Economic Zone): The MFCMA defines this zone as contiguous to the Territorial Sea of all the United States and its possessions and extending seaward 200 nautical miles measured from the baseline from which the Territorial Sea is measured.

Fishery Management Plan (FMP): A plan developed by a Regional Fishery Management Council and the Secretary of the Department of Commerce to manage a fishery resource pursuant to the Magnuson Fishery Conservation and Management Act of 1976.

Fishing access site: Fishing access site refers to the name and location of the place where anglers were intercepted. Each intercept site was given a unique name and code number. The fishing access site did not define the mode of fishing since anglers may have used more than one mode at any given site.

Fishing trip: Fishing during part or all of 1 day in one mode. An angler who fished from both a pier and a beach on the same day made one fishing trip since the pier and the beach are both in the shore mode. However, an angler who fished from a head boat in the morning and from a pier in the afternoon is counted as having made two fishing trips--a head boat trip and a shore trip.

Hours fished: The amount of time an angler actively fished in a mode with fishing gear in the water. If an angler spent time fishing at other sites on the same day, that time was also included provided the fishing was done in the same mode. Not included was the travel time in a boat or travel time between sites.

Household: A household consisted of all persons who occupied a housing unit. The unit must have been intended for year-round use, not seasonal or migratory use.

Intercept survey or creel census: Interviewing anglers and examining their catch upon completion of their fishing trip, or under certain circumstances, while they were still fishing.

Length and weight of fish: Length and weight measurements were obtained from a sample of fish brought ashore in whole form by intercepted anglers. If more than 10 fish of the same species were brought ashore in whole form, 10 fish were randomly selected to be weighed and measured. If 10 or less fish of the same species were brought ashore in whole form, each fish was weighed and measured. For fish with a forked tail, fork length was measured from the tip of the longest jaw or the snout, whichever was terminal with the mouth closed, to the center of the fork. For fish with a non-forked tail, total length was measured from the tip of the longest jaw or the snout, whichever was terminal with the mouth closed, to the tip of the caudal lobe or fin. Weight was measured to the nearest tenth of a kilogram (1 kilogram is approximately 2.2 pounds). Length was measured to the nearest millimeter (1 millimeter is approximately 0.039 inches).

Marine recreational anglers: Those people who fished in marine waters primarily for recreational purposes. Their catch was primarily for home consumption, although occasionally a part or all of their catch may have been sold and entered commercial channels. Specifically, for this survey, marine recreational anglers were defined as follows: In the telephone household survey, an angler was anyone who had been marine recreational fishing in the 12 months prior to telephone household contact, and an eligible angler was anyone who had been marine recreational fishing 2 months prior to the telephone household contact. In the intercept survey an eligible angler was anyone just completing a finfishing trip, or in certain cases, someone who was still fishing.

Marine recreational fishing: Fishing primarily with hook and line for pleasure, amusement, relaxation, or home consumption. If part or all of the catch was sold, the monetary returns constituted an insignificant part of the person's income.

Mode of fishing: The type of place or platform from which marine recreational fishing occurs. There are four modes:

1. Shore: A shore may be:

Pier, dock: A structure built over the water and supported by pillars.

Jetty: A kind of wall, usually made of rocks, built out into the water or parallel to the shore to restrain currents or protect a harbor.

Breakwater: An offshore structure used to protect a harbor or breach from the forces of waves.

Bridge: An elevated or raised way across wet ground or water.

Causeway: A connecting channel.

Beach: A level stretch of pebbles or sand beside a body of water, often washed by high water.

Bank: A stretch of rising land at the edge of a body of water not washed by high water, which could be rocks or an overhanging cliff.

- **2. Private/Rental:** A boat belonging to an individual or one that is rented. No crew is provided; operated by the owner/renter.
- **3. Headboat:** A boat operated by licensed captain usually carrying greater than seven anglers. Fees are paid on a per head (angler) basis.
- **4. Charter Boat:** A boat operating under charter for a price, time, etc. It is operated by a licensed captain and crew and the participants are part of a pre-formed group of anglers. Thus, charters are usually closed parties. Note: Charter boats may make all-day or half-day trips.

Non-coastal resident: An angler who lived in a county of a coastal state that was not included in the telephone household survey.

Out-of-state resident: An angler who lived in a state other than the coastal state in which he fished.

Ocean: For the purposes of the survey, ocean is divided into two categories:

The ocean 3 miles or less from shore (Territorial Sea) and the ocean more than 3 miles from shore (Exclusive Economic Zone). However, the boundary for state and federal jurisdiction on the Gulf of Mexico coast of Florida is 3 marine leagues, or 10 miles, from shore. Not included are sounds, inlets, rivers, bays, etc.

Inland: Other bodies of saltwater besides the oceans. Included are sounds, inlets, and tidal portions of rivers, bay, estuaries, and other areas of salt or brackish water.

State of fishing access (**State of intercept**): The state in which the fishing or intercept site was located. For boat fishing, it was the state from which the boat departed the shoreline for fishing.

State of residence: The state in which the angler lived and maintained his permanent residence.

U.S. Territorial Sea: A zone extending 3 nautical miles from shore for all states except the Gulf coast of Florida where the seaward boundary is 3 marine leagues (approximately 10 statute miles).

Wave: A wave is one of the following 2-month intervals:

- January/February (Wave 1)
- March/April (Wave 2)
- May/June (Wave 3)
- July/August (Wave 4)
- September/October (Wave 5)
- November/December (Wave 6)

Appendix III.5 Data elements in MRIP survey.

Dockside Interviews

- · State and county of residence
- Avidity level trips per year
- Mode of fishing
- Primary area of fishing
- Number of anglers contributing to catch
- · Number, weights, and lengths of fish caught by species

Fishing Effort Survey

- Gender
- Age
- Ethnicity
- Presence of marine recreational anglers in the household
- Number of anglers per household
- Fishing trips in 2-month period
- Fishing trips in 12-month period
- Mode of each trip

Intercept Data

- Date, location, and site of interview
- Mode of fishing
- Tournament fishing status
- Fishing location
- Gear type
- Hours of fishing time
- Targeted species
- Number of days fished in last year
- State and county of residence
- Sex and age of angler
- Number and types of Type 2 fish (unavailable catch)
- Number of contributors and people in fishing party
- Length and weight of Type 3 fish (available catch)

Expanded Data

- Estimated number of trips in a mode
- Percent of trips in a mode
- · Number of trips in a specific mode and area
- Data on groups or types of fish caught in a mode or area
- Estimated numbers of Type A, B1, or B2 fishes caught or released (including variances)
- Estimated weights or lengths of specific types of fish (including variances)
- Number of interviews conducted in specific modes or sites by year, month, etc.
- Catch per trip (including variances)
- Mean weight and/or length of fish from a specific area, mode, etc.