

## Chapter IV: CENTRAL AND SOUTHERN MANAGEMENT AREA RECREATIONAL FISHERY STATISTICS

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## **PROGRAM NARRATIVE**

Coastal Striped Bass populations have continuously provided a popular and economically important fishery in North Carolina. Despite past surveys covering a considerable area, data were lacking in the Central/Southern Management Area (CSMA) where the stock was listed as overfished in 2003. The 2004 North Carolina Estuarine Striped Bass Fishery Management Plan addressed this issue, calling for assessments of the fishery. A comprehensive creel survey was initiated in January 2004 to identify and estimate recreational Striped Bass effort and catch in the CSMA. In 2012, other anadromous fish (i.e., American and Hickory Shad) were included in the estimation process.

## **SURVEY METHODOLOGY**

### **Study Area**

The CSMA includes all internal coastal, joint, and contiguous inland waters of North Carolina south of a line from Roanoke Marshes Point, across to Eagle Nest Bay and to the South Carolina state line. The areas surveyed in the CSMA include the Neuse, Trent, Tar/Pamlico, Cape Fear, and Pungo rivers (Figure IV.1). The Neuse River basin drains over 6,200 square miles of land with over 3,000 miles of streams and rivers. The mouth of the main channel is six miles across – the widest in the United States. Over 1.3 million residents reside within this river basin. Major tributaries include Crabtree, Swift, and Contentnea creeks, along with the Eno, Little, and Trent rivers. Survey points included 45 boat ramps and fishing access points from Millburnie Park in East Raleigh to Lee's Landing on Broad Creek. The river was divided into three segments: 1) all access points in Goldsboro and upstream were labeled as the upper zone, 2) sites on Contentnea Creek and downstream from Goldsboro to Core Creek were labeled the middle zone, and 3) the sites downstream from Core Creek were labeled the lower zone.

The Tar/Pamlico River watershed drains over 5,500 square miles with over 2,400 miles of streams and rivers. Major tributaries include Cokey Swamp, Swift, Fishing, and Tranters creeks, and the 30-mile Pungo River near Belhaven, North Carolina – the main tributary in the lower basin. Access points surveyed on the Tar/Pamlico River include 19 boat ramps and access sites from Battle Park in Rocky Mount to the Quarterdeck Marina in Bath, NC. This system was divided into upper and lower zones, with sites upstream of Greenville, NC considered the upper zone (Figure IV.1). The Pungo River was surveyed at the Leechville ramp (NC-264 bridge), the Belhaven North Carolina Wildlife Resource Commission (NCWRC) ramp, the Highway 99 Ramp in Belhaven, Wright's Creek Wildlife Resource Commission Ramp, and Cee Bee Marina on Pungo Creek.

Beginning in 2012, sampling within the CSMA was expanded to include the upper reaches of the Tar/Pamlico and Neuse Rivers. Additionally, the southernmost rivers in the CSMA (White Oak, New, Cape Fear, and Shallotte rivers) were excluded from the study area due to comparatively low recreational Striped Bass catch, but the Cape Fear was included to target shad (American and Hickory) beginning in 2013.

## **Sampling Procedures**

Recreational fishing statistics from the CSMA were calculated through a non-uniform stratified access-point creel survey (Pollock et al. 1994) on the Neuse, Pamlico, and Pungo rivers from January to December. Site probabilities were set in proportion to the likely use of the site according to time of day, day of the week, and season. Probabilities for this survey were assigned based on observed effort from past years and direct observation by creel clerks. Morning and afternoon periods were assigned unequal probabilities of conducting interviews, with each period representing half a fishing day. A fishing day was defined as the period from one hour after sunrise until one hour after sunset. This is slightly different than in years prior to 2012 where the fishing day was defined as beginning 1.5 hours after sunrise. Monthly sampling periods for each river and zone were stratified accordingly, and all weekend and holiday dates along with two randomly selected weekdays were chosen from each week for sampling.

Tar/Pamlico River anglers in the upper zone were interviewed throughout the spring months coinciding with anadromous species' spawning runs (January-May), while anglers in the lower zone were interviewed year-round based on the evidence of a year-round fishery and no seasonal closures. Two creel clerks were assigned to this river, with one surveying the upper zone January through May and one clerk surveying the lower zone from January through December. The three zones within the Neuse River were covered with one creel clerk per zone. The lower zone was surveyed from January to December while middle zone surveys were conducted January-May and the upper zone surveys from February to May to coincide with anadromous species' spawning runs. The Pungo River was surveyed throughout the year with one creel clerk.

Returning fishing parties were interviewed by a creel clerk at the selected access point to obtain information regarding party size, effort, total number of fish harvested and/or released, primary fishing method, and location. Harvested fish were identified, counted, measured to the nearest mm fork length (converted to centerline length and total length for appropriate species), and weighed to the nearest 0.1 kg, while information on discarded fish was obtained from the angler to acquire the number and status of discarded individuals. Scale collections were taken from available fish to determine age of catch. The age structures were given to the Fisheries Management section of the North Carolina Division of Marine Fisheries (NCDMF) for age determination. Creel clerks also obtained socioeconomic information from the angler, including age, state and county of residence, sex, ethnic background, trip information, and expenditures. The survey instrument used by creel clerks for interviews and assignment summary records are shown in Appendix IV.1 through Appendix IV.3.

## **Analyses**

### **Effort and Catch Estimations**

Samples were reduced to Striped Bass effort and catch only. Results were stratified by river, access point, and time of day. Catch was defined as the sum of harvested fish and discarded fish. Discarded fish equaled the sum of fish caught in excess of creel limits (over-creel), legal-sized fish caught and released, and sub-legal fish returned to the water. Daily effort and catch for each river were calculated by expanding observed numbers by the sample unit probability (time of day

probability multiplied by access area probability). Total catch estimates for the CSMA and catch estimates for each zone and type of day were calculated based on the Horvitz-Thompson estimator for non-uniform probability sampling as such:

$$C = \sum_{i=1}^n (c_i / p_i)$$

where a sample of  $n$  units is taken, and the probability of the  $i^{\text{th}}$  unit being in the sample is denoted by  $p_i$  (Pollock et al. 1994). Total effort, in number of trips, over the CSMA and each individual zone and type of day were estimated in the same fashion, as were other extrapolated data. Targeted trips presented refer to trips where the angler explicitly identified their target species during the sampling interview. If multiple species were targeted, then a primary target species was designated (1<sup>st</sup> target; see Appendix IV.1). Approximate standard errors (SE) of the catch and effort estimates within zone and type of day were calculated according to:

$$SE = \sqrt{N^2 \left( \frac{s^2}{n} \right)}$$

where  $s^2$  is the variance of the observations,  $n$  is the number of days sampled, and  $N$  is the number of days of that type available for sampling (Pollock et al. 1994). Percent standard errors (PSE) for the year are presented by river system and zone. Monthly PSEs within river system and zone are available upon request. Estimated catch per unit effort (CPUE) values were obtained by dividing estimated catch by estimated Striped Bass trips as well as angler hours (angler-h) in order to identify trends in fishing pressure and angler success. Size structure of Striped Bass in harvests was described for each zone using length-frequency distributions of observed samples. Fishing party characteristics and methods used during Striped Bass trips reported by anglers were documented by river and day type. The database was created using Access<sup>®</sup> and statistical analyses were performed with SAS 9.4<sup>®</sup>. Beginning in 2012, the North Carolina Wildlife Resources Commission (NCWRC) Portal Access to Wildlife Systems (PAWS) was used to house these data and estimate effort and catch. NCDMF and NCWRC staff have been verifying calculations to ensure consistency with the previous work.

*Please note: Estimates of catch and effort are expanded averages presented as whole numbers. Any inconsistency in the total catch and/or effort due to adding across rows or columns presented in this chapter is due to rounding.*

### **Angler Demographics and Economic Analysis**

The CSMA Creel Survey socioeconomic questionnaire (Appendix IV.3) included questions to identify characteristics of the Striped Bass angling population. Demographics of anglers were reported according to age, residency, gender, and ethnic background, and are expressed as a percentage of the total angling population throughout the CSMA. Mean values were calculated for quantitative data. Results were further grouped by river and day type. Anglers were grouped as local, regional, or out-of-state residents. Local anglers resided within the county, while regional anglers resided elsewhere in North Carolina. The socioeconomic questionnaire also included questions regarding trip length, distance traveled, party size, and expenditures across lodging, food, ice, bait, equipment rental, and boat fuel and oil. Mean weighted expenditures per trip were reported by river and day type. Lodging and rental expenses were rarely encountered; therefore,

they are not included within this report. The weighted mean of each expenditure was totaled to provide an average trip cost. The economic impact analysis can be found in Chapter VI.

#### **LITERATURE CITED**

Pollock, K. H., C. M. Jones, and T. L. Brown. 1994. Angler survey methods and their applications in fisheries management. American Fisheries Society. Special Publication 25, Bethesda, Maryland.

## CONTACTS

This project was funded under the Federal Aid in Sport Fish Restoration Program using state fishing license money and federal grant funds derived from federal excise taxes on fishing tackle and other fishing related expenditures.

Funds from the Sport Fish Restoration Program are used for aquatic education, fisheries research and management, and boating access facilities. This program is administered cooperatively by the NCDMF, N.C. Wildlife and Resources Commission, and U.S. Fish and Wildlife Service. For additional information regarding the survey or for a complete report, please reach out to one of the contacts below.

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**Table IV.1 Measures of central tendency for lengths and weights of Striped Bass (observed).**

Year	River	Length (inches)			Weight (pounds)			
		N	Min	Max	Mean	Min	Max	Mean
2022	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	0	0	0	0	0	0	0
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals <sup>1</sup>	0	0	0	0	0	0	0
2021	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	0	0	0	0	0	0	0
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals <sup>1</sup>	0	0	0	0	0	0	0
2020	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	0	0	0	0	0	0	0
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals <sup>1</sup>	0	0	0	0	0	0	0
2019	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	18	17.28	21.76	19.67	2.65	4.41	3.44
	Upper Tar River	1	26.26	26.26	26.26	6.61	6.61	6.61
	Lower Tar-Upper Pamlico River	8	14.98	19.46	17.72	1.54	3.53	2.62
	Pungo River	1	18.82	18.82	18.82	2.54	2.54	2.54
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	28	14.98	26.26	19.32	1.54	6.61	3.28

<sup>1</sup>Harvest of Striped Bass was prohibited in this area, and no catch information was collected during this time.

<sup>2</sup>Middle Neuse not sampled in 2013.

**Table IV.1 Measures of central tendency for lengths and weights of Striped Bass (observed) (continued).**

Year	River	Length (inches)				Weight (pounds)		
		N	Min	Max	Mean	Min	Max	Mean
2018	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	14	17.93	27.07	20.70	2.09	8.38	3.73
	Lower Neuse River	25	17.57	27.23	19.19	2.09	8.82	3.04
	Upper Tar River	1	19.22	19.22	19.22	3.53	3.53	3.53
	Lower Tar-Upper Pamlico River	101	16.47	22.16	18.94	1.65	4.41	3.03
	Pungo River	14	17.61	29.27	21.03	2.20	11.91	3.87
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	155	16.47	29.27	19.33	1.65	11.91	3.17
2017	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	8	19.42	29.60	23.99	2.82	13.80	7.14
	Lower Neuse River	70	17.57	28.03	20.50	1.98	10.80	3.89
	Upper Tar River	19	17.44	22.24	19.82	2.18	5.95	3.60
	Lower Tar-Upper Pamlico River	88	17.32	26.18	20.10	2.20	8.82	3.61
	Pungo River	17	18.82	26.47	20.89	1.54	6.39	3.20
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	202	17.32	29.60	20.43	1.54	13.80	3.81
2016	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	2	18.90	20.27	19.58	2.87	3.59	3.23
	Lower Neuse River	21	17.97	28.87	20.52	2.20	8.82	3.73
	Upper Tar River	16	17.49	32.96	21.40	2.31	9.48	3.81
	Lower Tar-Upper Pamlico River	81	17.57	27.47	19.72	2.20	7.94	3.61
	Pungo River	24	18.25	26.95	20.81	2.43	5.95	3.41
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	144	17.49	32.96	20.20	2.20	9.48	3.61
2015	Upper Neuse River	2	16.31	19.91	18.11	1.65	3.09	2.37
	Middle Neuse River	2	26.26	26.91	26.59	2.98	9.26	6.12
	Lower Neuse River	25	17.57	26.10	19.98	2.09	7.50	3.48
	Upper Tar River	3	19.62	21.64	20.38	3.75	4.85	4.19
	Lower Tar-Upper Pamlico River	41	17.69	24.26	20.37	1.76	15.43	3.78
	Pungo River	33	18.13	26.99	21.28	1.98	7.05	3.33
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	106	16.31	26.99	20.63	1.65	15.43	3.60
2014	Upper Neuse River	2	20.63	20.63	20.63	3.86	3.86	3.86
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	32	17.93	30.24	21.39	2.31	14.33	4.76
	Upper Tar River	0	0	0	0	0	0	0
	Lower Tar-Upper Pamlico River	64	18.45	27.39	19.94	2.76	9.48	3.69
	Pungo River	17	19.79	20.03	19.91	2.43	4.85	3.46
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	115	17.93	30.24	20.47	2.31	14.33	3.94

<sup>1</sup>Harvest of Striped Bass was prohibited in this area, and no catch information was collected during this time.

<sup>2</sup>Middle Neuse not sampled in 2013.



**Table IV.1 Measures of central tendency for lengths and weights of Striped Bass (observed) (continued).**

Year	River	Length (inches)				Weight (pounds)		
		N	Min	Max	Mean	Min	Max	Mean
2013	Upper Neuse River	1	24.76	24.76	24.76	7.72	7.72	7.72
	Middle Neuse River <sup>2</sup>	-	-	-	-	-	-	-
	Lower Neuse River	51	17.56	27.87	19.55	2.09	11.46	3.78
	Upper Tar River	7	18.31	20.35	19.29	3.31	4.63	4.00
	Lower Tar--Upper Pamlico River	53	17.05	25.91	18.97	2.43	8.82	3.50
	Pungo River	57	18.11	27.28	20.10	0.88	9.92	3.38
	Cape Fear River	0	0	0	0	0	0	0
	Entire CSMA Totals	169	17.05	27.87	19.48	0.88	11.46	3.67
2012	Upper Neuse River	5	19.10	27.31	22.76	2.65	9.04	5.22
	Middle Neuse River	3	18.78	24.46	21.02	2.87	5.51	3.86
	Lower Neuse River	51	17.53	27.99	20.70	2.43	9.92	3.90
	Upper Tar River	6	18.53	21.36	20.34	2.87	4.41	3.64
	Lower Tar-Upper Pamlico River	67	18.25	27.79	20.52	2.65	9.04	3.97
	Pungo River	21	19.34	27.23	21.01	2.43	7.05	3.50
	Cape Fear River	-	-	-	-	-	-	-
	Entire CSMA Totals	153	17.53	27.99	20.73	2.43	9.92	3.91
2011	Upper Neuse River	-	-	-	-	-	-	-
	Middle Neuse River	-	-	-	-	-	-	-
	Lower Neuse River	54	17.61	27.43	19.97	2.09	7.50	3.36
	Upper Tar River	-	-	-	-	-	-	-
	Lower Tar-Upper Pamlico River	53	17.61	28.19	20.39	2.43	9.70	3.98
	Pungo River	32	18.11	25.59	21.29	2.43	6.83	3.69
	Cape Fear River	-	-	-	-	-	-	-
	Entire CSMA Totals	140	17.61	28.19	20.45	2.09	9.70	3.68
2010	Upper Neuse River	-	-	-	-	-	-	-
	Middle Neuse River	-	-	-	-	-	-	-
	Lower Neuse River	4	18.41	21.48	19.64	2.65	3.53	3.00
	Upper Tar River	-	-	-	-	-	-	-
	Lower Tar-Upper Pamlico River	48	18.13	23.65	20.31	2.65	6.17	3.96
	Pungo River	22	17.77	26.26	21.00	2.20	7.05	3.75
	Cape Fear River	-	-	-	-	-	-	-
	Entire CSMA Totals	74	17.77	26.26	20.48	2.20	7.05	3.84
2009	Upper Neuse River	-	-	-	-	-	-	-
	Middle Neuse River	-	-	-	-	-	-	-
	Lower Neuse River	6	18.50	23.53	21.68	2.20	4.63	3.51
	Upper Tar River	-	-	-	-	-	-	-
	Lower Tar-Upper Pamlico River	44	17.20	21.65	19.91	2.20	4.85	3.37
	Pungo River	45	18.50	24.02	20.88	2.20	5.95	3.36
	Cape Fear River	-	-	-	-	-	-	-
	Entire CSMA Totals	95	17.20	24.02	20.48	2.20	5.95	3.37
All Years	Grand Totals for Entire CSMA	1,381	14.98	32.96	20.18	0.88	15.43	3.63

<sup>1</sup>Harvest of Striped Bass was prohibited in this area, and no catch information was collected during this time.

<sup>2</sup>Middle Neuse not sampled in 2013.

**Table IV.2 Measures of central tendency for lengths and weights of American Shad (observed).**

Year	River	Length (inches)			Weight (pounds)			
		N	Min	Max	Mean	Min	Max	Mean
2022	Upper Neuse River	3	13.39	16.89	15.17	1.10	2.65	1.93
	Middle Neuse River	5	16.06	17.07	16.63	1.54	2.20	1.87
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	5	15.08	18.11	17.04	1.21	3.75	2.69
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	27	13.39	18.11	15.85	0.99	3.09	2.02
	Pungo River	0	0	0	0	0	0	0
	Total	40	13.39	18.11	16.04	0.99	3.75	2.08
2021	Upper Neuse River	1	17.91	17.91	17.91	3.42	3.42	3.42
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	9	13.94	18.23	16.83	1.43	3.42	2.61
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	93	11.10	19.29	16.66	1.10	5.40	2.50
	Pungo River	0	0	0	0	0	0	0
	Total	103	11.1	19.3	16.7	1.10	5.40	2.52
2020	Upper Neuse River	7	14.76	17.09	15.87	1.50	2.65	1.93
	Middle Neuse River	7	9.61	17.99	15.24	0.55	3.53	2.20
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	8	14.92	17.40	16.38	1.76	3.09	2.66
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	88	12.20	19.17	15.72	0.18	4.41	2.28
	Pungo River	0	0	0	0	0	0	0
	Total	110	9.61	19.17	15.74	0.18	4.41	2.28
2019	Upper Neuse River	7	15.59	17.13	16.41	1.65	2.65	2.14
	Middle Neuse River	5	13.54	17.76	15.61	1.23	2.98	2.09
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	19	13.43	17.40	15.35	0.99	2.76	1.73
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	148	11.89	19.45	15.36	1.10	4.41	2.50
	Pungo River	0	0	0	0	0	0	0
	Total	179	11.89	19.45	15.41	0.99	4.41	2.39
2018	Upper Neuse River	3	16.54	18.03	17.30	2.87	3.97	3.23
	Middle Neuse River	4	13.62	18.90	16.11	1.32	3.75	2.45
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	13	16.93	20.47	18.29	1.54	3.53	2.32
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	210	12.76	19.41	16.42	0.44	3.97	2.34
	Pungo River	0	0	0	0	0	0	0
	Total	230	12.76	20.47	16.53	0.44	3.97	2.35

**Table IV.2 Measures of central tendency for lengths and weights of American Shad (observed) (continued).**

Year	River	Length (inches)				Weight (pounds)		
		N	Min	Max	Mean	Min	Max	Mean
2017	Upper Neuse River	1	18.41	18.41	18.41	1.43	1.43	1.43
	Middle Neuse River	16	13.93	19.02	16.67	1.43	4.41	2.57
	Lower Neuse River	1	17.65	17.65	17.65	3.31	3.31	3.31
	Upper Tar River	13	14.98	19.02	17.09	1.21	3.97	2.41
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	75	13.97	22.61	19.38	1.10	4.41	2.78
	Pungo River	0	0	0	0	0	0	0
	Total	106	13.93	22.61	18.66	1.10	4.41	2.70
2016	Upper Neuse River	4	15.12	17.99	16.23	1.54	2.54	2.07
	Middle Neuse River	2	15.47	16.85	16.16	1.65	2.43	2.04
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	6	11.85	19.49	15.45	1.32	3.06	1.82
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	369	5.63	22.05	16.54	0.66	4.19	2.24
	Pungo River	0	0	0	0	0	0	0
	Total	381	5.63	22.05	16.52	0.66	4.19	2.23
2015	Upper Neuse River	3	14.98	17.12	16.11	1.32	1.98	1.69
	Middle Neuse River	0	0	0	0	0	0	0
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	14	15.59	22.61	20.03	1.32	3.75	3.24
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	131	13.32	20.47	17.87	0.99	4.30	2.74
	Pungo River	0	0	0	0	0	0	0
	Total	148	13.32	22.61	18.00	0.99	4.30	2.56
2014	Upper Neuse River	0	0	0	0	0	0	0
	Middle Neuse River	6	14.69	18.43	16.67	1.65	3.64	2.72
	Lower Neuse River	4	17.87	18.50	18.19	3.53	3.97	3.75
	Upper Tar River	0	0	0	0	0	0	0
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	175	14.88	22.28	19.90	0.99	4.85	3.15
	Pungo River	0	0	0	0	0	0	0
	Total	185	14.69	22.28	18.25	0.99	4.85	3.20
2013	Upper Neuse River	9	14.33	19.06	17.06	1.54	3.86	2.82
	Middle Neuse River	15	13.78	20.55	16.12	1.43	3.75	2.20
	Lower Neuse River	1	14.53	14.53	14.53	1.65	1.65	1.65
	Upper Tar River	42	14.29	19.49	16.71	1.54	3.75	2.70
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	433	15.16	22.95	18.63	0.55	5.07	2.41
	Pungo River	0	0	0	0	0	0	0
	Total	500	13.78	22.95	18.42	0.55	5.07	2.42

**Table IV.2 Measures of central tendency for lengths and weights of American Shad (observed) (continued).**

Year	River	Length (inches)			Weight (pounds)			
		N	Min	Max	Mean	Min	Max	Mean
2012	Upper Neuse River	15	13.35	18.50	15.66	1.32	3.97	2.22
	Middle Neuse River	1	16.97	16.97	16.97	2.87	2.87	2.87
	Lower Neuse River	2	13.86	14.80	14.33	1.43	1.76	1.60
	Upper Tar River	11	13.39	16.89	15.28	1.10	3.53	1.90
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	-	-	-	-	-	-	-
	Pungo River	0	0	0	0	0	0	0
	Total	29	13.35	18.50	15.47	1.10	3.97	2.08

**Table IV.3 Measures of central tendency for lengths and weights of Hickory Shad (observed).**

Year	River	Length (inches)			Weight (pounds)			
		N	Min	Max	Mean	Min	Max	Mean
2022	Upper Neuse River	15	11.42	15.28	14.14	0.66	2.20	1.40
	Middle Neuse River	154	10.67	16.97	14.30	0.22	2.87	1.58
	Lower Neuse River	23	11.73	16.10	14.26	0.77	2.54	1.59
	Upper Tar River	30	10.63	15.87	13.65	0.55	2.43	1.43
	Lower Tar-Upper Pamlico River	1	14.88	14.88	14.88	1.76	1.76	1.76
	Cape Fear River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Total	223	10.63	16.97	14.20	0.22	2.87	1.55
2021	Upper Neuse River	59	10.24	15.63	13.04	0.44	1.87	1.06
	Middle Neuse River	91	9.49	16.54	13.46	0.44	2.31	1.25
	Lower Neuse River	25	10.98	16.50	13.40	0.66	2.54	1.25
	Upper Tar River	73	10.24	16.46	12.91	0.44	2.31	1.13
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	1	14.84	14.84	14.84	1.32	1.32	1.32
	Pungo River	0	0	0	0	0	0	0
	Total	249	9.49	16.54	13.20	0.44	2.54	1.17
2020	Upper Neuse River	8	10.98	15.28	13.44	0.57	1.90	1.26
	Middle Neuse River	151	10.24	16.50	13.89	0.44	2.54	1.38
	Lower Neuse River	14	10.98	15.31	14.19	0.77	2.09	1.56
	Upper Tar River	35	9.65	15.83	14.16	0.55	2.54	1.63
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Total	208	9.65	16.50	13.94	0.44	2.54	1.43
2019	Upper Neuse River	2	12.87	13.19	13.03	0.99	1.10	1.05
	Middle Neuse River	102	10.98	15.75	13.59	0.71	2.54	1.27
	Lower Neuse River	37	10.91	16.02	13.62	0.66	2.43	1.38
	Upper Tar River	168	10.00	15.35	13.27	0.60	2.09	1.24
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Total	309	10.00	16.02	13.42	0.60	2.54	1.26
2018	Upper Neuse River	4	12.99	13.58	13.25	1.10	1.32	1.21
	Middle Neuse River	179	10.31	16.73	13.38	0.55	2.54	1.28
	Lower Neuse River	22	10.59	16.02	13.17	0.55	2.20	1.26
	Upper Tar River	17	11.81	17.32	14.98	0.66	2.65	1.28
	Lower Tar-Upper Pamlico River	5	13.86	17.80	16.09	0.99	2.20	1.51
	Cape Fear River	2	13.94	15.43	14.69	1.43	1.98	1.71
	Pungo River	0	0	0	0	0	0	0
	Total	229	10.31	17.80	13.55	0.55	2.65	1.29

**Table IV.3 Measures of central tendency for lengths and weights of Hickory Shad (observed) (continued).**

Year	River	Length (inches)			Weight (pounds)			
		N	Min	Max	Mean	Min	Max	Mean
2017	Upper Neuse River	10	12.34	16.80	14.76	0.66	1.32	1.03
	Middle Neuse River	168	10.43	17.28	13.66	0.55	4.19	1.20
	Lower Neuse River	17	11.49	16.60	14.06	0.77	2.20	1.31
	Upper Tar River	31	10.96	18.01	13.71	0.49	5.11	1.35
	Lower Tar-Upper Pamlico River	1	12.75	12.75	12.75	0.88	0.88	0.88
	Cape Fear River	1	14.57	14.57	14.57	1.10	1.10	1.10
	Pungo River	0	0	0	0	0	0	0
	Total	228	10.43	18.01	13.74	0.49	5.11	1.22
2016	Upper Neuse River	18	10.67	14.76	12.42	0.55	1.76	1.00
	Middle Neuse River	116	10.55	15.39	12.72	0.55	1.87	1.04
	Lower Neuse River	7	11.30	14.96	13.67	0.66	1.54	1.29
	Upper Tar River	4	7.36	15.59	12.35	0.73	2.34	1.40
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Total	145	7.36	15.59	12.71	0.55	2.34	1.06
2015	Upper Neuse River	35	8.44	15.22	13.02	0.33	1.76	0.96
	Middle Neuse River	108	10.64	15.42	13.21	0.55	1.65	1.03
	Lower Neuse River	1	13.97	13.97	13.97	1.43	1.43	1.43
	Upper Tar River	16	12.75	18.21	15.02	0.44	1.98	1.12
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	1	11.45	11.45	11.45	0.66	0.66	0.66
	Pungo River	0	0	0	0	0	0	0
	Total	161	8.44	18.21	13.33	0.33	1.98	1.04
2014	Upper Neuse River	28	10.43	14.69	12.63	0.55	1.54	1.01
	Middle Neuse River	236	10.16	14.61	12.51	0.55	1.76	1.06
	Lower Neuse River	66	10.71	15.16	12.87	0.55	1.87	1.17
	Upper Tar River	2	12.99	14.02	13.50	1.10	1.32	1.21
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	0	0	0	0	0	0	0
	Pungo River	0	0	0	0	0	0	0
	Total	332	10.16	15.16	12.88	0.55	1.87	1.11
2013	Upper Neuse River	37	10.39	15.91	12.74	0.55	2.54	1.10
	Middle Neuse River	174	9.92	15.63	12.39	0.44	2.09	0.99
	Lower Neuse River	0	0	0	0	0	0	0
	Upper Tar River	30	10.63	14.37	12.75	0.66	2.20	1.31
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	1	17.28	17.28	17.28	1.98	1.98	1.98
	Pungo River	0	0	0	0	0	0	0
	Total	242	9.92	17.28	12.49	0.44	2.54	1.03

**Table IV.3 Measures of central tendency for lengths and weights of Hickory Shad (observed) (continued).**

Year	River	Length (inches)			Weight (pounds)			
		N	Min	Max	Mean	Min	Max	Mean
2012	Upper Neuse River	45	10.55	15.43	11.96	0.55	2.31	0.89
	Middle Neuse River	164	10.39	15.75	12.55	0.77	2.65	1.27
	Lower Neuse River	9	10.55	15.43	13.27	0.66	2.31	1.48
	Upper Tar River	3	12.36	13.23	12.73	1.10	1.10	1.10
	Lower Tar-Upper Pamlico River	0	0	0	0	0	0	0
	Cape Fear River	-	-	-	-	-	-	-
	Pungo River	0	0	0	0	0	0	0
	Total	221	10.39	15.75	12.46	0.55	2.65	1.20

**Table IV.4 Reported and observed catches (in numbers) by species and disposition.**

Year	Common Name	Harvest	Discards				No. Of Fish	Percent Total	
		Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized			
2022	Bass, Hybrid Striped	0	9	0	0	25	0	34	0.13
	Bass, Largemouth	17	2,748	0	74	0	0	2,839	10.77
	Bass, Striped	0	608	0	339	217	8	1,172	4.45
	Bass, White	0	1	0	0	0	0	1	<0.01
	Bluefish	22	294	0	0	0	0	316	1.20
	Bluegill	699	597	0	0	0	0	1,296	4.92
	Bowfin	0	287	0	0	0	0	287	1.09
	Bullhead, Brown	0	12	0	0	0	0	12	0.05
	Carp, Common	0	2	0	0	0	0	2	0.01
	Catfish Family, Freshwater	30	93	0	0	0	0	123	0.47
	Catfish, Blue	85	31	0	0	0	0	116	0.44
	Catfish, Channel	192	117	0	0	0	0	309	1.17
	Catfish, Flathead	12	15	0	0	0	0	27	0.10
	Crappie Genus	0	9	0	30	0	0	39	0.15
	Crappie, Black	141	184	15	94	0	0	434	1.65
	Croaker, Atlantic	38	137	0	14	0	0	189	0.72
	Drum, Black	22	7	1	22	0	0	52	0.20
	Drum, Red	156	153	68	1,222	0	141	1,740	6.60
	Eel, American	0	1	0	0	0	0	1	<0.01
	Flounder, Lefteye Family	12	266	94	958	0	0	1,330	5.50
	Flounder, Southern	46	13	0	37	0	0	96	0.36
	Flounder, Summer	0	4	0	0	0	0	4	0.02
	Gar, Longnose	0	150	0	0	0	0	150	0.57
	Herring Genus	0	10	0	0	0	0	10	0.04
	Kingfish Genus	0	1	0	0	0	0	1	<0.01
	Ladyfish	0	2	0	0	0	0	2	0.01
	Lizardfish, Inshore	0	4	0	0	0	0	4	0.02
	Mackerel, Spanish	57	2	0	22	0	0	81	0.31
	Menhaden, Atlantic	0	16	0	0	0	0	16	0.06
	Mullet Genus	0	19	0	0	0	0	19	0.07
	Mullet, Striped	13	17	0	0	0	0	30	0.11
	Perch, Silver	0	4	0	0	0	0	4	0.02
	Perch, White	315	137	0	0	0	0	452	1.72
	Perch, Yellow	7	17	0	0	0	0	24	0.09
	Pickrel, Chain	1	153	0	0	0	0	154	0.58
	Pigfish	0	3	0	0	0	0	3	0.01
	Pinfish	0	104	0	0	0	0	104	0.39
	Pumpkinseed	4	5	0	0	0	0	9	0.03
	Ray, Cownose	0	9	0	0	0	0	9	0.03
	Seatrout Genus	0	10	0	0	0	0	10	0.04
	Seatrout, Spotted	2,376	2,370	1,223	3,949	0	0	9,918	37.64
	Shad Genus	2	422	0	0	0	0	424	1.61
	Shad, American	72	150	15	0	0	0	237	0.90
	Shad, Gizzard	11	46	0	0	0	0	57	0.22
	Shad, Hickory	479	1,269	80	0	0	0	1,828	6.94



**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2022	Sheepshead	0	2	0	0	0	0	2	0.01
	Shiner, Golden	0	1	0	0	0	0	1	<0.01
	Skate, Clearnose	0	125	0	0	0	0	125	0.47
	Spot	15	49	0	0	0	0	64	0.24
	Stingray Family	0	13	0	0	0	0	13	0.05
	Stingray, Atlantic	0	3	0	0	0	0	3	0.01
	Sunfish Genus	48	1,512	265	0	0	0	1,825	6.93
	Sunfish, Green	4	33	0	0	0	0	37	0.14
	Sunfish, Redbreast	31	50	0	0	0	0	81	0.31
	Sunfish, Redear	130	76	0	0	0	0	206	0.78
	Weakfish	9	1	0	17	0	0	27	0.10
	<b>Total</b>	<b>5,046</b>	<b>12,373</b>	<b>1,761</b>	<b>6,778</b>	<b>242</b>	<b>149</b>	<b>26,349</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2021	Bass, Hybrid Striped	0	1	0	0	1	0	2	0.01
	Bass, Largemouth	44	3,980	11	116	0	0	4,151	15.71
	Bass, Striped	0	655	0	366	86	0	1,107	4.19
	Bass, White	0	0	0	1	0	0	1	<0.01
	Bluefish	19	50	0	0	0	0	69	0.26
	Bluegill	681	522	0	0	0	0	1,203	4.55
	Bowfin	4	154	0	0	0	0	158	0.60
	Bullhead, Brown	0	1	0	0	0	0	1	<0.01
	Carp, Common	1	3	0	0	0	0	4	0.02
	Catfish Family, Freshwater	19	134	0	0	0	0	153	0.58
	Catfish, Blue	46	38	0	0	0	0	84	0.32
	Catfish, Channel	94	87	0	0	0	0	181	0.69
	Catfish, Flathead	6	9	0	0	0	0	15	0.06
	Catfish, White	0	6	0	0	0	0	6	0.02
	Crappie, Black	353	481	0	208	0	0	1,042	3.94
	Crappie, White	1	1	0	1	0	0	3	0.01
	Croaker, Atlantic	45	177	0	0	0	0	222	0.84
	Drum, Black	4	1	0	1	0	0	6	0.02
	Drum, Red	110	119	24	969	0	54	1,276	4.83
	Eel, American	0	7	0	0	0	0	7	0.03
	Flounder, Lefteye family	86	215	6	864	0	0	1,171	4.43
	Flounder, Southern	48	40	0	156	0	0	244	0.92
	Gar, Longnose	0	52	0	0	0	0	52	0.20
	Herring genus	0	5	0	0	0	0	5	0.02
	Ladyfish	0	9	0	0	0	0	9	0.03
	Mackerel, Spanish	7	8	0	31	0	0	46	0.17
	Mullet genus	10	3	0	0	0	0	13	0.05
	Mullet, Striped	1	8	0	0	0	0	9	0.03
	Perch, Silver	0	3	0	0	0	0	3	0.01
	Perch, White	156	121	0	0	0	0	277	1.05
	Perch, Yellow	8	25	0	0	0	0	33	0.12
	Pickrel, Chain	1	171	0	0	0	0	172	0.65
	Pinfish	0	45	0	0	0	0	45	0.17
	Pumpkinseed	30	30	0	0	0	0	60	0.23
	Ray, Cownose	0	21	0	0	0	0	21	0.08
	Seatrout, Spotted	2,134	1,244	1,250	2,153	0	0	6,781	25.67
	Shad genus	12	316	0	0	0	0	328	1.24
	Shad, American	198	448	136	0	0	0	782	2.96
	Shad, Gizzard	20	4	0	0	0	0	24	0.09
	Shad, Hickory	499	1,320	82	0	0	0	1,901	7.20
	Sheepshead	0	1	0	2	0	0	3	0.01
	Skate, Clearnose	0	10	0	0	0	0	10	0.04
	Spot	47	60	0	0	0	0	107	0.40
	Stingray family	0	6	0	0	0	0	6	0.02
	Sunfish genus	190	3,864	167	0	0	0	4,221	15.98

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2021	Sunfish, Green	5	36	0	0	0	0	41	0.16
	Sunfish, Redbreast	15	11	0	0	0	0	26	0.10
	Sunfish, Redear	218	108	0	0	0	0	326	1.23
	Unidentified Fish	0	5	0	0	0	0	5	0.02
	Weakfish	5	0	0	3	0	0	8	0.03
	<b>Total</b>	<b>5,117</b>	<b>14,615</b>	<b>1,676</b>	<b>4,871</b>	<b>87</b>	<b>54</b>	<b>26,420</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2020	Bass, Black Sea	0	0	0	1	0	0	1	0.01
	Bass, Largemouth	9	1,175	0	36	0	0	1,220	10.10
	Bass, Striped	0	150	0	175	50	0	375	3.11
	Bluefish	13	0	0	0	0	0	13	0.11
	Bluegill	222	180	58	0	0	0	460	3.81
	Bowfin	1	56	0	0	0	0	57	0.47
	Catfish, Blue	7	7	0	0	0	0	14	0.12
	Catfish, Channel	21	28	0	0	0	0	49	0.41
	Catfish, Flathead	1	1	0	0	0	0	2	0.02
	Catfish Family, Freshwater	29	41	0	0	0	0	70	0.58
	Crappie, Black	341	88	32	75	0	0	536	4.44
	Croaker, Atlantic	24	5	0	0	0	0	29	0.24
	Drum, Black	25	1	0	0	0	0	26	0.22
	Drum, Red	145	35	6	276	0	2	464	3.84
	Eel, American	0	2	0	0	0	0	2	0.02
	Flounder, Lefteye family	9	12	0	106	0	0	127	1.05
	Flounder, Southern	44	0	0	8	0	0	52	0.43
	Flounder, Summer	0	0	0	2	0	0	2	0.02
	Gar, Longnose	1	28	0	0	0	0	29	0.24
	Herring family	0	20	0	0	0	0	20	0.17
	Kingfish genus	2	0	0	0	0	0	2	0.02
	Mackerel, Spanish	28	0	0	0	0	0	28	0.23
	Menhaden, Atlantic	0	10	0	0	0	0	10	0.08
	Mullet, Striped	77	1	0	0	0	0	78	0.65
	Perch, White	225	96	0	0	0	0	321	2.66
	Perch, Yellow	44	44	0	0	0	0	88	0.73
	Pickrel, Chain	0	48	0	0	0	0	48	0.40
	Pumpkinseed	15	2	0	0	0	0	17	0.14
	Ray, Cownose	0	3	0	0	0	0	3	0.02
	Seatrout, Spotted	2,290	319	40	762	0	0	3,411	28.24
	Shad genus	0	559	74	0	0	0	633	5.24
	Shad, American	128	235	33	0	0	0	396	3.28
	Shad, Hickory	616	1,328	79	0	0	0	2,023	16.75
	Spot	59	85	0	0	0	0	144	1.19
	Sunfish genus	295	924	45	0	0	0	1,264	10.47
	Sunfish, Redbreast	19	0	0	0	0	0	19	0.16
	Sunfish, Redear	23	5	0	0	0	0	28	0.23
	Toadfish, Oyster	0	1	0	0	0	0	1	0.01
	Warmouth	0	14	0	0	0	0	14	0.12
	Weakfish	1	0	0	0	0	0	1	0.01
	<b>Total</b>	<b>4,714</b>	<b>5,503</b>	<b>367</b>	<b>1,441</b>	<b>50</b>	<b>2</b>	<b>12,077</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2019	Bass, Largemouth	126	1,856	5	979	0	0	2,966	11.37
	Bass, Striped	38	533	39	1,449	155	0	2,214	8.49
	Bluefish	10	25	0	0	0	0	35	0.13
	Bluegill	620	465	0	0	0	0	1,085	4.16
	Bowfin	3	474	0	0	0	0	477	1.83
	Carp, Common	0	3	0	0	0	0	3	0.01
	Catfish, Blue	40	38	0	0	0	0	78	0.30
	Catfish, Brown Bullhead	6	0	0	0	0	0	6	0.02
	Catfish, Channel	82	85	0	0	0	0	167	0.64
	Catfish, Flathead	11	9	0	0	0	0	20	0.08
	Catfish Family, Freshwater	107	191	0	0	0	0	298	1.14
	Catfish, White	2	0	0	0	0	0	2	0.01
	Cleannose Skate	0	1	0	0	0	0	1	<0.01
	Crappie, Black	539	295	15	276	0	0	1,125	4.31
	Croaker, Atlantic	12	143	0	0	0	0	155	0.59
	Drum, Black	32	5	0	22	0	0	59	0.23
	Drum, Red	13	60	1	2,275	0	26	2,375	9.10
	Eel, American	0	5	0	0	0	0	5	0.02
	Flounder, Lefteye family	1	55	0	731	0	0	787	3.02
	Flounder, Southern	66	7	0	85	0	0	158	0.61
	Flounder, Summer	16	5	0	13	0	0	34	0.13
	Gar, Longnose	2	84	0	0	0	0	86	0.33
	Herring genus	0	8	0	0	0	0	8	0.03
	Herring, Blueback	0	1	0	0	0	0	1	<0.01
	Kingfish genus	1	0	0	0	0	0	1	<0.01
	Ladyfish	0	2	0	0	0	0	2	0.01
	Mackerel, Spanish	11	1	0	32	0	0	44	0.17
	Menhaden, Atlantic	0	20	0	0	0	0	20	0.08
	Mullet genus	0	1	0	0	0	0	1	<0.01
	Mullet, Striped	1	1	0	0	0	0	2	0.01
	Perch, Silver	0	7	0	0	0	0	7	0.03
	Perch, White	297	143	0	0	0	0	440	1.69
	Perch, Yellow	23	96	0	0	0	0	119	0.46
	Pickrel, Chain	2	114	0	0	0	0	116	0.44
	Pinfish	0	24	0	0	0	0	24	0.09
	Pumpkinseed	62	25	0	0	0	0	87	0.33
	Ray, Cownose	0	6	0	0	0	0	6	0.02
	Seatrout, Spotted	1,996	926	401	3,305	0	0	6,628	25.41
	Shad genus	4	184	125	0	0	0	313	1.20
	Shad, American	194	238	0	0	0	0	432	1.66
	Shad, Gizzard	0	3	0	0	0	0	3	0.01
	Shad, Hickory	489	1,465	43	0	0	0	1,997	7.65
	Shiner, Golden	1	0	0	0	0	0	1	<0.01
	Spot	65	170	0	0	0	0	235	0.90
	Sunfish genus	794	2,396	15	0	0	0	3,205	12.29

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2019	Sunfish, Green	12	0	0	0	0	0	12	0.05
	Sunfish, Redbreast	5	13	0	0	0	0	18	0.07
	Sunfish, Redear	103	96	0	0	0	0	199	0.76
	Unidentified Fish	0	4	0	0	0	0	4	0.02
	Warmouth	3	23	0	0	0	0	26	0.10
	Weakfish	0	1	0	0	0	0	1	<0.01
	<b>Total</b>	<b>5,789</b>	<b>10,307</b>	<b>644</b>	<b>9,167</b>	<b>155</b>	<b>26</b>	<b>26,088</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2018	Bass, Hybrid Striped	0	4	0	0	0	0	4	0.02
	Bass, Largemouth	50	1,479	0	518	0	0	2,047	10.42
	Bass, Striped	219	566	82	2,244	121	2	3,234	16.47
	Bluefish	10	141	0	0	0	0	151	0.77
	Bluegill	559	569	0	0	0	0	1,128	5.74
	Bowfin	23	289	0	0	0	0	312	1.59
	Carp, Common	1	4	0	0	0	0	5	0.03
	Catfish, Blue	72	67	0	0	0	0	139	0.71
	Catfish, Brown Bullhead	4	0	0	0	0	0	4	0.02
	Catfish, Channel	71	76	0	0	0	0	147	0.75
	Catfish, Flathead	12	10	0	0	0	0	22	0.11
	Catfish Family, Freshwater	59	232	0	0	0	0	291	1.48
	Catfish, White	6	0	0	0	0	0	6	0.03
	Catfish, Yellow Bullhead	2	0	0	0	0	0	2	0.01
	Clearnose Skate	0	1	0	0	0	0	1	0.01
	Crappie, Black	603	214	20	309	0	0	1,146	5.84
	Croaker, Atlantic	2	63	0	0	0	0	65	0.33
	Drum, Black	31	1	0	4	0	0	36	0.18
	Drum, Red	23	18	0	88	3	21	153	0.78
	Eel, American	1	28	0	0	0	0	29	0.15
	Flounder, Lefteye family	6	16	10	759	0	0	791	4.03
	Flounder, Southern	55	0	0	0	0	0	55	0.28
	Gar, Longnose	2	95	0	0	0	0	97	0.49
	Gizzard Shad	0	3	0	0	0	0	3	0.02
	Herring family	0	9	0	0	0	0	9	0.05
	Herring, Blueback	2	0	0	0	0	0	2	0.01
	Mackerel, Spanish	0	0	0	6	0	0	6	0.03
	Mullet genus	0	46	0	0	0	0	46	0.23
	Mullet, Striped	2	0	0	0	0	0	2	0.01
	Perch, Silver	0	2	0	0	0	0	2	0.01
	Perch, White	604	169	0	0	0	0	773	3.94
	Perch, Yellow	68	59	0	0	0	0	127	0.65
	Pickrel, Chain	1	85	0	0	0	0	86	0.44
	Pinfish	0	35	0	0	0	0	35	0.18
	Pumpkinseed	32	17	0	0	0	0	49	0.25
	Ray, Cownose	0	13	0	0	0	0	13	0.07
	Seatrout, Spotted	62	135	0	845	0	0	1,042	5.31
	Shad genus	0	204	16	0	0	0	220	1.12
	Shad, American	289	383	86	0	0	0	758	3.86
	Shad, Hickory	939	2,682	390	0	0	0	4,011	20.42
	Shiner, Golden	1	0	0	0	0	0	1	0.01
	Spot	24	86	0	0	0	0	110	0.56
	Stingray family	0	11	0	0	0	0	11	0.06
	Stingray, Atlantic	0	2	0	0	0	0	2	0.01

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2018	Sunfish genus	306	1,789	108	0	0	0	2,203	11.22
	Sunfish, Green	0	0	0	0	0	0	0	0.00
	Sunfish, Redbreast	12	21	0	0	0	0	33	0.17
	Sunfish, Redear	102	59	0	0	0	0	161	0.82
	Tarpon	0	1	0	0	0	0	1	0.01
	Warmouth	8	52	0	0	0	0	60	0.31
	White Bass	0	7	0	0	0	0	7	0.04
	<b>Total</b>	<b>4,263</b>	<b>9,743</b>	<b>712</b>	<b>4,773</b>	<b>124</b>	<b>23</b>	<b>19,638</b>	<b>100.00</b>



**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2017	Bass, Hybrid Striped	2	2	0	1	0	0	5	0.02
	Bass, Largemouth	86	2,296	0	995	0	0	3,377	11.65
	Bass, Spotted	0	2	0	0	0	0	2	0.01
	Bass, Striped	304	853	59	5,020	83	6	6,325	21.83
	Bass, White	0	0	0	2	0	0	2	0.01
	Bluefish	6	44	0	0	0	0	50	0.17
	Bluegill	752	588	0	0	0	0	1,340	4.62
	Bowfin	5	466	0	0	0	0	471	1.63
	Catfish, Black Bullhead	0	2	0	0	0	0	2	0.01
	Catfish, Blue	52	67	0	0	0	0	119	0.41
	Catfish, Brown Bullhead	0	1	0	0	0	0	1	<0.01
	Catfish, Channel	72	84	0	0	0	0	156	0.54
	Catfish, Flathead	8	14	0	0	0	0	22	0.08
	Catfish Family, Freshwater	53	135	0	0	0	0	188	0.65
	Cleannose Skate	0	9	0	0	0	0	9	0.03
	Crappie, Black	681	251	31	370	0	0	1,333	4.60
	Croaker, Atlantic	34	184	0	0	0	0	218	0.75
	Drum, Black	38	0	0	13	0	0	51	0.18
	Drum, Red	93	77	20	838	1	6	1,035	3.57
	Eel, American	0	13	0	0	0	0	13	0.04
	Flounder, Lefteye family	16	9	0	1,046	0	0	1,071	3.70
	Flounder, Southern	90	5	0	7	0	0	102	0.35
	Gar, Longnose	3	109	0	0	0	0	112	0.39
	Herring family	0	25	0	0	0	0	25	0.09
	Herring, Blueback	1	0	0	0	0	0	1	<0.01
	Mackerel, Spanish	1	0	0	1	0	0	2	0.01
	Mullet genus	1	50	0	0	0	0	51	0.18
	Mullet, Striped	0	6	0	0	0	0	6	0.02
	Perch, Silver	0	11	0	0	0	0	11	0.04
	Perch, White	828	354	0	0	0	0	1,182	4.08
	Perch, Yellow	64	106	18	0	0	0	188	0.65
	Pickrel, Chain	6	217	0	0	0	0	223	0.77
	Pinfish	0	53	0	0	0	0	53	0.18
	Pumpkinseed	78	29	0	0	0	0	107	0.37
	Ray, Cownose	0	7	0	0	0	0	7	0.02
	Seatrout, Spotted	657	320	42	2,686	0	0	3,705	12.78
	Shad genus	0	199	0	0	0	0	199	0.69
	Shad, American	118	413	6	0	0	0	537	1.85
	Shad, Gizzard	1	7	0	0	0	0	8	0.03
	Shad, Hickory	680	2,330	198	0	0	0	3,208	11.07
	Spot	59	170	0	0	0	0	229	0.79
	Stingray family	0	8	0	0	0	0	8	0.03
	Sunfish genus	2	2,393	162	0	0	0	2,557	8.82
	Sunfish, Green	1	0	0	0	0	0	1	<0.01
	Sunfish, Redbreast	27	71	0	0	0	0	98	0.34
	Sunfish, Redear	175	84	0	0	0	0	259	0.89
	Tarpon	210	0	0	0	0	0	210	0.72
	Warmouth	19	76	0	0	0	0	95	0.33
	Weakfish	0	1	0	5	0	0	6	0.02
	<b>Total</b>	<b>5,223</b>	<b>12,141</b>	<b>536</b>	<b>10,984</b>	<b>84</b>	<b>12</b>	<b>28,980</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2016	Bass, Black Sea	0	0	0	1	0	0	1	0.01
	Bass, Hybrid Striped	11	0	0	1	1	0	13	0.18
	Bass, Largemouth	51	305	2	180	0	0	538	7.45
	Bass, Spotted	0	1	0	0	0	0	1	0.01
	Bass, Striped	260	80	1	468	67	14	876	12.13
	Bass, White	4	3	0	0	0	0	7	0.10
	Bluegill	475	77	2	0	0	0	554	7.67
	Bowfin	25	102	0	0	0	0	127	1.76
	Catfish, Blue	96	21	0	0	0	0	117	1.62
	Catfish, Brown Bullhead	1	0	0	0	0	0	1	0.01
	Catfish, Channel	61	9	0	0	0	0	70	0.97
	Catfish, Flathead	21	7	0	0	0	0	28	0.39
	Catfish Family, Freshwater	12	50	0	0	0	0	62	0.86
	Catfish, White	3	0	0	0	0	0	3	0.04
	Clearnose Skate	0	3	0	0	0	0	3	0.04
	Crappie, Black	499	72	1	34	0	0	606	8.39
	Croaker, Atlantic	32	38	0	0	0	0	70	0.97
	Drum, Black	51	1	0	9	0	0	61	0.84
	Drum, Red	19	10	0	153	0	0	182	2.52
	Eel, American	1	4	0	0	0	0	5	0.07
	Flounder, Lefteye family	22	3	0	112	0	0	137	1.90
	Flounder, Southern	55	0	0	0	0	0	55	0.76
	Gar, Longnose	0	36	0	0	0	0	36	0.50
	Ladyfish	0	1	0	0	0	0	1	0.01
	Mackerel, Spanish	0	0	0	1	0	0	1	0.01
	Menhaden, Atlantic	0	1	0	0	0	0	1	0.01
	Mullet genus	0	2	0	0	0	0	2	0.03
	Mullet, Striped	0	3	0	0	0	0	3	0.04
	Perch, Silver	0	2	0	0	0	0	2	0.03
	Perch, White	712	102	0	0	0	0	814	11.27
	Perch, Yellow	13	30	0	0	0	0	43	0.60
	Pickrel, Chain	3	83	0	0	0	0	86	1.19
	Pinfish	3	6	0	0	0	0	9	0.12
	Pinfish, Spottail	0	1	0	0	0	0	1	0.01
	Pumpkinseed	25	10	0	0	0	0	35	0.48
	Ray, Cownose	0	2	0	0	0	0	2	0.03
	Seatrout, Spotted	234	11	1	134	0	0	380	5.26
	Shad, American	492	54	12	10	0	0	568	7.87
	Shad, Gizzard	288	10	0	0	0	0	298	4.13
	Shad, Hickory	418	67	4	0	0	0	489	6.77
	Shad genus	0	5	5	0	0	0	10	0.14
	Shad, Threadfin	137	2	0	0	0	0	139	1.92
	Spot	6	12	0	0	0	0	18	0.25
	Stingrays	0	1	0	0	0	0	1	0.01
	Sunfish genus	352	160	3	0	0	0	515	7.13

**Table IV.4**      **Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2016	Sunfish, Green	0	2	0	0	0	0	2	0.03
	Sunfish, Redbreast	45	17	0	0	0	0	62	0.86
	Sunfish, Redear	135	19	0	0	0	0	154	2.13
	Unidentified Fish	0	1	0	0	0	0	1	0.01
	Warmouth	9	19	0	0	0	0	28	0.39
	Weakfish	2	1	0	0	0	0	3	0.04
	<b>Total</b>		<b>4,573</b>	<b>1,396</b>	<b>31</b>	<b>1,153</b>	<b>68</b>	<b>14</b>	<b>7,221</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2015	Bass, Hybrid Striped	11	1	0	3	0	0	15	0.26
	Bass, Largemouth	61	244	0	182	0	0	487	8.53
	Bass, Striped	151	71	2	263	23	21	510	8.93
	Bass, White	0	3	0	0	0	0	3	0.05
	Bluefish	6	5	0	0	0	0	5	0.09
	Bluegill	745	91	0	0	0	0	836	14.64
	Bowfin	3	77	0	0	0	0	80	1.40
	Catfish, Black Bullhead	1	0	0	0	0	0	1	0.02
	Catfish, Blue	128	26	0	0	0	0	154	2.70
	Catfish, Brown Bullhead	4	0	0	0	0	0	4	0.07
	Catfish, Channel	67	24	0	0	0	0	91	1.59
	Catfish, Flathead	7	6	0	0	0	0	13	0.23
	Catfish Family, Freshwater	14	43	0	0	0	0	57	1.07
	Catfish, White	1	0	0	0	0	0	1	0.02
	Crappie, Black	462	48	0	29	0	0	539	9.44
	Croaker, Atlantic	10	34	0	0	0	0	44	0.77
	Drum, Red	2	10	1	28	0	1	41	0.72
	Eel, American	1	4	0	1	0	0	6	0.11
	Flounder, Lefteye family	8	4	1	101	0	0	144	2.00
	Flounder, Southern	70	1	0	6	0	0	77	1.35
	Flounder, Summer	29	9	0	16	0	0	54	0.95
	Gar, Longnose	0	34	0	0	0	0	34	0.60
	Mackerel, Spanish	0	0	0	2	0	0	2	0.04
	Mullet, Striped	4	1	0	0	0	0	5	0.09
	Perch, Silver	2	2	0	0	0	0	4	0.07
	Perch, White	623	79	0	0	0	0	702	12.29
	Pickrel, Chain	1	39	0	0	0	0	40	0.70
	Pinfish	0	12	0	0	0	0	12	0.21
	Pumpkinseed	57	6	0	0	0	0	63	1.10
	Ray, Cownose	0	6	0	0	0	0	6	0.11
	Seatrout, Spotted	93	10	1	92	0	0	196	3.43
	Shad genus	0	15	0	0	0	0	15	0.26
	Shad, American	169	25	4	0	0	0	198	3.47
	Shad, Gizzard	4	6	0	0	0	0	10	0.18
	Shad, Hickory	428	65	9	0	0	0	502	8.79
	Shad, Threadfin	22	1	0	0	0	0	23	0.40
	Shiner, Golden	0	1	0	0	0	0	1	0.02
	Spot	74	20	0	0	0	0	94	1.65
	Stingray family	0	2	0	0	0	0	2	0.04
	Sunfish genus	300	149	1	0	0	0	450	7.88
	Sunfish, Redbreast	58	15	0	0	0	0	73	1.28
	Sunfish, Redear	63	12	0	0	0	0	75	1.10
	Unidentified Fish	0	2	0	0	0	0	2	0.04
	Warmouth	10	8	0	0	0	0	18	0.32
	<b>Total</b>	<b>3,712</b>	<b>1,187</b>	<b>19</b>	<b>768</b>	<b>23</b>	<b>22</b>	<b>5,713</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2014	Bass, Black Sea	0	1	0	1	0	0	2	0.02
	Bass, Hybrid Striped	25	8	0	36	1	0	70	0.66
	Bass, Largemouth	40	467	3	545	0	0	1,055	10.00
	Bass, Spotted	0	1	0	2	0	0	3	0.03
	Bass, Striped	149	290	20	800	155	10	1,414	13.4
	Bass, White	0	6	0	2	0	0	8	0.08
	Bluefish	3	49	0	0	0	0	52	0.49
	Bluegill	699	111	1	0	0	0	811	7.69
	Bowfin	0	112	0	0	0	0	112	1.06
	Carp, Common	2	4	0	0	0	0	6	0.06
	Catfish, Blue	219	62	0	0	0	0	281	2.66
	Catfish, Brown Bullhead	7	0	0	0	0	0	7	0.07
	Catfish, Channel	36	43	0	0	0	0	79	0.75
	Catfish, Flathead	5	19	0	0	0	0	24	0.23
	Catfish Family, Freshwater	38	125	0	0	0	0	163	1.54
	Catfish, White	30	1	0	0	0	0	31	0.29
	Clearnose Skate	0	2	0	0	0	0	2	0.02
	Crappie, Black	386	67	2	89	0	0	544	5.16
	Croaker, Atlantic	92	117	0	0	0	0	209	1.98
	Drum, Black	0	10	0	2	0	0	12	0.11
	Drum, Red	13	65	6	558	0	2	642	6.08
	Eel, American	0	21	0	0	0	0	21	0.20
	Flounder, Lefteye family	21	25	0	600	0	0	647	6.12
	Flounder, Southern	98	0	0	7	0	0	105	1.00
	Flounder, Summer	1	0	0	27	0	0	28	0.27
	Gar, Longnose	0	105	0	0	0	0	105	1.00
	Kingfish genus	0	1	0	0	0	0	1	0.01
	Mackerel, Spanish	0	1	0	1	0	0	2	0.02
	Menhaden, Atlantic	0	3	0	0	0	0	3	0.03
	Mullet genus	0	6	0	0	0	0	6	0.06
	Mullet, Striped	7	9	0	0	0	0	16	0.15
	Perch, Silver	3	2	0	0	0	0	5	0.05
	Perch, White	318	71	0	0	0	0	389	3.69
	Perch, Yellow	27	30	0	0	0	0	57	0.54
	Pickerel, Chain	1	81	0	0	0	0	82	0.78
	Pigfish	0	1	0	0	0	0	1	0.01
	Pinfish	8	69	0	0	0	0	77	0.73
	Pumpkinseed	113	17	0	0	0	0	130	1.23
	Ray, Cownose	0	17	0	0	0	0	17	0.16
	Seatrout genus	1	2	0	5	0	0	8	0.08
	Seatrout, Spotted	300	158	24	844	0	0	1,326	12.57
	Shad genus	0	68	20	1	0	0	89	0.84
	Shad, American	282	125	4	0	0	0	411	3.90
	Shad, Gizzard	27	17	0	0	0	0	44	0.42
	Shad, Hickory	351	255	6	0	0	0	612	5.80
	Shad, Threadfin	25	1	0	0	0	0	26	0.25
	Sheepshead	0	1	0	0	0	0	1	0.01
	Shiner, Golden	0	1	0	0	0	0	1	0.01

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2014	Spot	68	57	0	0	0	0	125	1.18
	Threadfin Shad	25	1	0	0	0	0	26	0.25
	Unidentified fish	0	3	0	0	0	0	3	0.03
	Warmouth	4	5	0	0	0	0	9	0.09
	Weakfish	0	0	0	3	0	0	3	0.03
	White Bass	0	6	0	2	0	0	8	0.08
	White Catfish	30	1	0	0	0	0	31	0.29
	White Perch	318	71	0	0	0	0	389	3.69
	White Sucker	1	0	0	0	0	0	1	0.01
	Yellow Perch	27	30	0	0	0	0	57	0.54
	Total	3,606	3,154	100	3,534	156	12	10,551	100.00

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2013	Bass, Hybrid Striped	32	3	0	35	0	0	70	0.36
	Bass, Largemouth	34	744	0	954	0	0	1,732	8.86
	Bass, Striped	279	337	28	937	117	0	1,698	8.69
	Bass, White	1	4	0	3	0	0	8	0.04
	Bluefish	94	110	0	0	0	0	204	1.04
	Bluegill	510	372	0	0	0	0	882	4.51
	Bowfin	6	76	0	0	0	0	82	0.42
	Catfish, Blue	165	49	0	0	0	0	214	1.09
	Catfish, Brown Bullhead	1	0	0	0	0	0	1	0.01
	Catfish, Channel	64	22	0	0	0	0	86	0.44
	Catfish, Flathead	7	7	0	0	0	0	14	0.07
	Catfish Family,	26	77	0	0	0	0	103	0.53
	Catfish, White	4	0	0	0	0	0	4	0.02
	Clearnose Skate	0	6	0	0	0	0	6	0.03
	Common Carp	1	0	0	0	0	0	1	0.01
	Crappie, Black	318	68	6	262	0	0	654	3.35
	Croaker, Atlantic	72	177	0	0	0	0	249	1.27
	Drum, Black	10	1	0	0	0	0	11	0.06
	Drum, Red	161	109	19	888	0	5	1,177	6.02
	Eel, American	1	5	0	0	0	0	6	0.03
	Flounder, Lefteye family	63	17	0	2,021	0	0	2,093	10.71
	Flounder, Southern	173	0	0	0	0	0	173	0.89
	Flounder, Summer	2	0	0	0	0	0	10	0.05
	Gar, Longnose	7	118	0	0	0	0	125	0.64
	Mackerel, Spanish	0	1	0	2	0	0	3	0.02
	Menhaden, Atlantic	0	200	0	0	0	0	200	1.02
	Mullet, Striped	7	13	0	0	0	0	20	0.10
	Perch, White	104	38	0	3	0	0	145	0.74
	Perch, Yellow	2	13	0	0	0	0	15	0.08
	Pickrel, Chain	0	90	0	0	0	0	90	0.46
	Pinfish	6	167	0	0	0	0	173	0.89
	Pumpkinseed	28	11	0	0	0	0	39	0.20
	Ray, Cownose	0	10	0	0	0	0	10	0.05
	Sea Lamprey	1	0	0	0	0	0	1	0.01
	Seatrout, Spotted	1,123	230	52	2,341	0	0	3,746	19.17
	Shad genus	87	580	59	0	0	0	726	3.71
	Shad, American	761	533	19	0	0	0	1,313	6.72
	Shad, Gizzard	172	49	0	0	0	0	221	1.13
	Shad, Hickory	495	672	25	0	0	0	1,192	6.10
	Spot	84	133	0	0	0	0	217	1.11
	Stingray family	0	1	0	0	0	0	1	0.01
	Sunfish genus	302	1,391	84	20	0	0	1,797	9.19
	Sunfish, Redbreast	10	2	0	0	0	0	12	0.06
	Sunfish, Redear	8	8	0	0	0	0	16	0.08
	Warmouth	1	1	0	0	0	0	2	0.01
	Weakfish	0	0	0	2	0	0	2	0.01
	<b>Total</b>	<b>5,222</b>	<b>6,445</b>	<b>292</b>	<b>7,468</b>	<b>117</b>	<b>5</b>	<b>19,544</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (continued).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2012	Bass, Hybrid Striped	7	4	0	35	3	0	49	0.25
	Bass, Largemouth	22	415	0	992	0	0	1,429	7.19
	Bass, Striped	222	513	31	1,277	188	0	2,231	11.23
	Bass, White	12	5	0	0	0	0	17	0.09
	Bluefish	11	46	0	0	0	0	57	0.29
	Bowfin	1	54	0	0	0	0	55	0.28
	Carp, Common	1	0	0	0	0	0	1	0.01
	Catfish, Freshwater family	90	357	0	0	0	0	447	2.25
	Clearnose Skate	2	0	0	0	0	0	2	0.01
	Crappie, Black	186	156	0	77	0	0	419	2.11
	Croaker, Atlantic	49	192	0	0	0	0	241	1.21
	Drum, Black	60	70	0	0	0	0	130	0.65
	Drum, Red	20	13	3	2,177	10	10	2,223	11.19
	Eel, American	0	7	0	0	0	0	7	0.04
	Flounder, Southern	141	10	1	2,581	0	0	2,733	13.75
	Gar, Longnose	0	54	0	0	0	0	54	0.27
	Kingfish genus	0	1	0	0	0	0	1	0.01
	Menhaden, Atlantic	30	270	0	0	0	0	300	1.51
	Mullet, Striped	35	51	0	0	0	0	86	0.43
	Perch, White	371	131	0	0	0	0	502	2.53
	Perch, Yellow	5	8	0	0	0	0	13	0.07
	Pickrel, Chain	0	22	0	0	0	0	22	0.11
	Pinfish	28	324	0	0	0	0	352	1.77
	Ray, Cownose	0	59	0	0	0	0	59	0.30
	Seatrout, Spotted	1,038	304	202	2,427	0	0	3,971	19.98
	Shad genus	17	34	0	0	0	0	51	0.26
	Shad, American	60	227	0	0	0	0	287	1.44
	Shad, Gizzard	21	20	0	0	0	0	41	0.21
	Shad, Hickory	296	854	20	0	0	0	1,170	5.89
	Shad, Threadfin	60	35	0	0	0	0	95	0.48
	Sheepshead	1	1	0	0	0	0	2	0.01
	Shiner, Golden	0	1	0	0	0	0	1	0.01
	Shorthead Redhorse	1	0	0	0	0	0	1	0.01
	Spot	34	77	0	0	0	0	111	0.56
	Stingray family	3	4	0	0	0	0	7	0.04
	Sunfish genus	885	1,806	10	0	0	0	2,701	13.59
	Weakfish	1	0	0	1	0	0	2	0.01
	<b>Total</b>	<b>3,710</b>	<b>6,090</b>	<b>267</b>	<b>9,602</b>	<b>201</b>	<b>10</b>	<b>19,870</b>	<b>100.00</b>



**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2011	Bass, Hybrid Striped	8	0	0	0	0	0	8	0.09
	Bass, Largemouth	7	367	42	301	0	0	717	7.64
	Bass, Striped	254	394	2	1,325	230	0	2,205	23.49
	Bluefish	3	32	0	0	0	0	35	0.37
	Bowfin	0	32	0	0	0	0	32	0.34
	Catfish, Freshwater family	66	34	0	0	0	0	100	1.07
	Crappie, Black	171	134	0	71	0	0	376	4.01
	Croaker, Atlantic	55	204	0	0	0	0	259	2.76
	Drum, Black	2	1	0	0	0	0	3	0.03
	Drum, Red	5	2	2	16	0	0	25	0.27
	Eel, American	0	2	0	0	0	0	2	0.02
	Flounder, Southern	143	5	10	537	0	0	695	7.41
	Gar, Longnose	0	40	0	0	0	0	40	0.43
	Mackerel, Spanish	24	1	0	4	0	0	29	0.31
	Mullet, Striped	42	35	0	0	0	0	77	0.82
	Perch, White	559	211	0	0	0	0	770	8.20
	Perch, Yellow	6	5	0	0	0	0	11	0.12
	Pickrel, Chain	0	11	0	0	0	0	11	0.12
	Pinfish	3	117	0	0	0	0	120	1.28
	Seatrout, Spotted	103	35	4	903	0	0	1,045	11.13
	Shad, American	43	118	0	0	0	0	161	1.72
	Shad, Gizzard	1	1	0	0	0	0	2	0.02
	Shad, Hickory	175	294	0	0	0	0	469	5.00
	Spot	60	110	0	0	0	0	170	1.81
	Sunfish genus	683	1,327	12	0	0	0	2,022	21.55
	Tarpon	0	1	0	0	0	0	1	0.01
	<b>Total</b>	<b>2,413</b>	<b>3,462</b>	<b>72</b>	<b>3,208</b>	<b>230</b>	<b>0</b>	<b>9,385</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2010	Bass, Hybrid Striped	7	0	0	0	0	0	7	0.13
	Bass, Largemouth	10	308	4	141	0	0	463	4.61
	Bass, Striped	204	246	7	593	62	0	1,112	11.06
	Bluefish	26	30	0	0	0	0	56	0.56
	Bowfin	0	16	0	0	0	0	16	0.16
	Carp, Common	0	2	0	0	0	0	2	0.02
	Catfish, Freshwater family	115	70	0	0	0	0	185	1.84
	Crappie, Black	139	81	0	103	0	0	323	3.21
	Croaker, Atlantic	148	447	0	0	0	0	595	5.92
	Drum, Black	4	0	0	0	0	0	4	0.04
	Drum, Red	36	11	0	245	0	0	292	2.90
	Flounder, Lefteye family	0	0	0	13	0	0	13	0.07
	Flounder, Southern	274	17	8	1,954	0	0	2,253	22.41
	Gar, Longnose	0	45	0	0	0	0	45	0.45
	Mackerel, Spanish	8	2	0	4	0	0	14	0.14
	Mullet, Striped	13	1	0	0	0	0	14	0.14
	Perch, White	173	150	0	0	0	0	323	3.21
	Perch, Yellow	6	9	0	0	0	0	15	0.15
	Pickrel, Chain	0	2	0	0	0	0	2	0.02
	Pickrel, Redfin	0	1	0	0	0	0	1	0.01
	Pigfish	0	6	0	0	0	0	6	0.06
	Pinfish	3	44	0	0	0	0	47	0.47
	Seatrout, Spotted	84	29	8	581	0	0	702	6.98
	Spot	15	17	0	0	0	0	32	0.32
	Sunfish genus	1,102	2,429	0	0	0	0	3,531	35.12
	<b>Total</b>	<b>2,367</b>	<b>3,948</b>	<b>27</b>	<b>3,649</b>	<b>62</b>	<b>0</b>	<b>10,053</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2009	Bass, Hybrid Striped	8	2	0	0	0	0	10	0.05
	Bass, Largemouth	8	563	0	130	0	0	701	3.83
	Bass, Striped	96	348	1	506	103	0	1,054	5.76
	Bluefish	17	66	0	0	0	0	83	0.45
	Bowfin	0	38	0	0	0	0	38	0.21
	Carp, Common	0	3	0	0	0	0	3	0.02
	Catfish, Freshwater family	2,104	72	0	0	0	0	2,176	11.89
	Crappie, Black	136	46	0	23	0	0	205	1.12
	Croaker, Atlantic	2,134	396	0	0	0	0	2,530	13.82
	Drum, Black	28	0	0	0	0	0	28	0.15
	Drum, Red	35	26	7	339	0	0	407	2.22
	Eel, American	0	1	0	0	0	0	1	0.01
	Flounder, Southern	427	23	0	1,766	0	0	2,216	12.10
	Gar, Longnose	0	16	0	0	0	0	16	0.09
	Mackerel, Spanish	31	8	0	0	0	0	39	0.21
	Mullet, Striped	1	4	0	0	0	0	5	0.03
	Perch, White	1,183	38	0	0	0	0	1,221	6.67
	Perch, Yellow	2	3	0	0	0	0	5	0.03
	Pickrel, Chain	0	2	0	0	0	0	2	0.01
	Pickrel, Redfin	0	3	0	0	0	0	3	0.02
	Pinfish	0	21	0	0	0	0	21	0.11
	Seatrout, Spotted	1,416	125	34	1,487	0	0	3,062	16.73
	Shad, American	4	0	0	0	0	0	4	0.02
	Shad, Gizzard	0	4	0	0	0	0	4	0.02
	Shad, Hickory	3	19	0	0	0	0	22	0.12
	Spot	2,048	59	0	0	0	0	2,107	11.51
	Sunfish genus	904	1,423	0	0	0	0	2,327	12.71
	Tarpon	0	7	0	0	0	0	7	0.04
	Weakfish	6	0	0	4	0	0	10	0.05
	<b>Total</b>	<b>10,591</b>	<b>3,290</b>	<b>42</b>	<b>4,281</b>	<b>103</b>	<b>0</b>	<b>18,307</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2008	Bass, Hybrid Striped	4	0	0	0	0	0	4	0.03
	Bass, Largemouth	52	824	2	206	0	0	1,084	8.13
	Bass, Striped	59	292	23	971	4	0	1,349	10.11
	Bluefish	24	84	0	0	0	0	108	0.81
	Bowfin	0	38	0	0	0	0	38	0.28
	Catfish, Freshwater family	118	331	0	0	0	0	449	3.37
	Crappie, Black	238	65	0	44	0	0	347	2.60
	Croaker, Atlantic	198	274	0	0	0	0	472	3.54
	Drum, Black	94	6	0	0	0	0	100	0.75
	Drum, Red	30	34	6	294	0	0	364	2.73
	Eel, American	0	7	0	0	0	0	7	0.05
	Flounder, Southern	395	18	0	2,278	0	0	2,691	20.17
	Gar, Longnose	0	17	0	0	0	0	17	0.13
	Mackerel, Spanish	48	5	0	156	0	0	209	1.57
	Mullet, Striped	6	2	0	0	0	0	8	0.06
	Perch, White	145	12	0	0	0	0	157	1.18
	Perch, Yellow	0	4	0	0	0	0	4	0.03
	Pickrel, Chain	0	10	0	0	0	0	10	0.07
	Seatrout, Spotted	1,210	55	42	1,664	0	0	2,971	22.27
	Shad, American	39	0	0	0	0	0	39	0.29
	Shad, Gizzard	0	4	0	0	0	0	4	0.03
	Shad, Hickory	67	34	0	0	0	0	101	0.76
	Spot	98	29	0	0	0	0	127	0.95
	Sunfish genus	906	1,650	0	0	0	0	2,556	19.16
	Weakfish	38	8	0	79	0	0	125	0.94
	<b>Total</b>	<b>3,769</b>	<b>3,773</b>	<b>73</b>	<b>5,722</b>	<b>4</b>	<b>0</b>	<b>13,341</b>	<b>100.00</b>

**Table IV.4 Reported and observed catches (in numbers) by species and disposition (*continued*).**

Year	Common Name	Harvest	Discards					No. Of Fish	Percent Total
			Legal Sized	Over Creel	Sub-Legal	Slot-Limit	Over-Sized		
2007	Bass, Hybrid Striped	14	0	0	171	0	0	185	1.17
	Bass, Largemouth	71	1,025	2	315	0	0	1,413	8.90
	Bass, Striped	192	96	12	2,139	0	0	2,439	15.36
	Bluefish	30	155	0	0	0	0	185	1.17
	Bowfin	0	101	0	0	0	0	101	0.64
	Catfish, Freshwater family	114	343	0	0	0	0	457	2.88
	Crappie, Black	210	60	0	16	0	0	286	1.80
	Creek Chubsucker	0	3	0	0	0	0	3	0.02
	Croaker, Atlantic	199	405	0	0	0	0	604	3.80
	Drum, Red	66	55	7	532	0	0	660	4.16
	Eel, American	0	0	0	1	0	0	1	0.01
	Flounder, Southern	170	33	2	1,382	0	0	1,587	9.99
	Gar, Longnose	0	27	0	0	0	0	27	0.17
	Mackerel, Spanish	0	1	0	0	0	0	1	0.01
	Mullet, Striped	10	17	0	0	0	0	27	0.17
	Perch, White	265	118	0	0	0	0	383	2.41
	Perch, Yellow	5	21	0	0	0	0	26	0.16
	Pickrel, Chain	0	10	0	0	0	0	10	0.06
	Pickrel, Redfin	2	6	0	0	0	0	8	0.05
	Pinfish	0	15	0	0	0	0	15	0.09
	Seatrout genus	0	0	0	2	0	0	2	0.01
	Seatrout, Spotted	1,578	60	19	2,010	0	0	3,667	23.09
	Shad, American	15	1	0	0	0	0	16	0.10
	Shad, Gizzard	0	2	0	0	0	0	2	0.01
	Shad, Hickory	6	11	0	0	0	0	17	0.11
	Spot	232	245	0	0	0	0	477	3.00
	Sunfish genus	970	2,249	0	0	0	0	3,219	20.27
	Weakfish	16	1	0	43	0	0	60	0.38
	<b>Total</b>	<b>4,165</b>	<b>4,981</b>	<b>42</b>	<b>6,690</b>	<b>0</b>	<b>0</b>	<b>15,878</b>	<b>100.00</b>

**Table IV.5 Percent of reported target species trips by year.**

Target Species	2022	2021	2020	2019	2018	2017	2016
Bass, Largemouth	14.74	19.52	12.24	18.05	18.75	16.56	14.24
Bass, Striped	2.77	3.49	2.31	7.39	19.13	21.65	25.39
Bass, White	0	0	0	0	0	0	0.05
Bluefish	0.08	0	0.05	0	0.09	0	0
Bluegill	0.08	0.12	0.05	0.27	0.60	0.76	0.63
Bowfin	0	0.08	0	0	0.09	0	0
Carp, Common	0	0	0	0.04	0.09	0	0
Catfish, Blue	0	0.41	0	0.04	0.19	0.09	0
Catfish, Channel	0.08	0.04	0	0	0	0.09	0
Catfish, Flathead	0.04	0.08	0	0	0	0.09	0
Catfishes	5.62	5.18	1.87	6.66	8.61	4.11	6.23
Crappie, Black	1.33	2.71	1.47	3.50	3.12	2.77	2.41
Croaker, Atlantic	0.08	0.16	0.10	0	0.14	0	0.16
Drum, Black	0.20	0.04	0.29	0.46	0.33	0.13	0.79
Drum, Red	7.15	4.27	6.34	2.15	2.19	2.63	0.73
Eel, American	0	0	0	0	0	0	0
Flounder, Lefteye	1.77	2.42	2.41	2.69	5.26	3.39	4.08
Flounder, Southern	0	0.04	0	0	0	0	0
Flounder, Summer	0	0	0	0.08	0	0	0
Gar, Longnose	0.04	0	0.20	0	0.19	0.09	0.05
Mackerel, Spanish	0.44	0.25	0.54	0.15	0.19	0	0
Mullet genus	0	0.04	0	0	0	0.13	0
Mullet, Striped	0.04	0	0.20	0.04	0	0	0
Perch, White	1.57	0.86	1.03	1.65	2.37	2.68	3.25
Perch, Yellow	0	0.12	0.05	0.15	0.14	0	0.05
Pinfish	0	0	0	0	0	0	0
Ray, Cownose	0	0	0	0	0	0	0
Seatrout, Spotted	41.06	35.76	50.66	32.24	8.28	22.01	15.08
Shad	16.55	16.11	15.68	18.81	18.71	14.33	14.03
Shad, American	1.61	3.12	1.08	0.15	4.19	2.37	6.86
Shad, Gizzard	0	0.08	0	0	0	0	0.26
Shad, Hickory	0.24	0.29	0.25	0.27	1.77	1.07	0.42
Shad, Threadfin	0	0	0	0	0	0	0
Spot	0.08	0.04	0.05	0.04	0	0.18	0.05
Stingrays	0	0	0	0	0	0	0
Sunfish, Green	0	0.04	0	0	0	0	0
Sunfish, Pumpkinseed	0	0	0	0.04	0	0	0
Sunfish, Redbreast	0	0	0	0	0	0.09	0.05
Sunfish, Redear	0	0.21	0.05	0.08	0	0	0.05
Sunfishes	3.98	4.40	3.10	5.04	5.44	4.42	4.97
Tarpon	0.40	0.08	0	0	0	0	0.16
Total Number of Trips	2,489	2,443	2,035	2,599	2,149	2,240	1,910

**Table IV.5 Percent of reported target species trips by year (continued).**

Target Species	2015	2014	2013	2012	2011	2010	Percent of all years
Bass, Largemouth	13.79	11.42	7.97	11.21	9.60	13.68	14.34
Bass, Striped	18.25	20.15	15.75	19.69	44.09	31.37	14.83
Bass, White	0	0	0	0	0	0	<0.01
Bluefish	0	0	0	0	0	0	0.02
Bluegill	0.97	0.73	0.48	0	0	0	0.37
Bowfin	0.19	0.06	0	0.14	0	0	0.04
Carp, Common	0	0.06	0.08	0	0	0	0.02
Catfish, Blue	0	0	0	0	0	0	0.07
Catfish, Channel	0	0	0	0	0	0	0.01
Catfish, Flathead	0	0	0	0	0	0	0.02
Catfishes	11.94	7.57	7.97	6.78	0.84	1.10	6.07
Crappie, Black	2.82	3.05	1.61	2.03	3.29	2.63	2.45
Croaker, Atlantic	0	0.18	0.04	0.09	0.18	1.16	0.09
Drum, Black	0	0.06	0.20	0.19	0.09	0.21	0.22
Drum, Red	0.58	0.79	2.22	1.55	1.24	4.00	2.92
Eel, American	0	0	0	0	0.09	0	<0.01
Flounder, Lefteye	2.33	5.31	4.07	4.33	9.51	16.63	3.71
Flounder, Southern	0	0	0.04	0	0	0	<0.01
Flounder, Summer	0.97	0	0.20	0	0	0	0.07
Gar, Longnose	0.10	0	0	0	0	0	0.05
Mackerel, Spanish	0	0.12	0.08	0	0.53	0.53	0.19
Mullet genus	0	0	0	0	0	0	0.01
Mullet, Striped	0.10	0	0.04	0.14	0.18	0	0.05
Perch, White	0.97	1.10	0.36	1.18	3.38	1.58	1.64
Perch, Yellow	0.19	0	0.04	0.05	0.09	0	0.07
Pinfish	0	0	0	0.05	0	0	<0.01
Ray, Cownose	0	0	0	0.05	0	0	<0.01
Seatrout, Spotted	6.99	18.74	28.27	26.28	10.22	17.26	26.69
Shad	29.61	22.34	24.65	9.70	0	0	16.87
Shad, American	0.68	0.98	0.40	1.32	8.44	0	2.36
Shad, Gizzard	0.19	0.06	0.12	0.09	0	0	0.06
Shad, Hickory	0.58	0.37	0.36	7.25	0.71	0.21	1.15
Shad, Threadfin	0.10	0	0	0	0	0	<0.01
Spot	0.10	0.18	0.16	0	0.18	0.11	0.07
Stingrays	0	0	0	0.05	0	0	<0.01
Sunfish, Green	0	0	0	0	0	0	<0.01
Sunfish, Pumpkinseed	0	0	0.04	0	0	0	0.01
Sunfish, Redbreast	0.10	0	0	0	0	0	0.02
Sunfish, Redear	0.10	0.06	0	0	0	0	0.05
Sunfishes	8.35	6.47	4.63	7.68	6.84	8.84	5.19
Tarpon	0	0.18	0.16	0.14	0.53	0.95	0.13
Total Number of Trips	1,030	1,639	2,483	2,123	1,125	1,808	100.00

**Table IV.6 Estimated Striped Bass effort and catch in the CSMA.**

Year	Month	Total Fishing Trips	Target Striped Bass Trips	Target Striped Bass Hours	Harvest <sup>1</sup>		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2022	Jan	6,527	92	525	0	0	1,016	487	0	0	1,503
	Feb	12,547	941	3,910	0	0	1,600	2,345	0	335	4,281
	Mar	12,326	293	968	0	0	397	803	0	97	1,296
	Apr	20,605	2,169	6,012	0	0	5,441	801	0	392	6,635
	May	16,276	1,083	3,509	0	0	1,064	1,086	0	1,829	3,979
	Jun	4,436	248	834	0	0	635	410	0	1,011	2,056
	Jul	5,345	34	201	0	0	384	764	0	9	1,157
	Aug	4,550	28	89	0	0	1,101	434	0	425	1,960
	Sep	6,216	113	824	0	0	641	263	0	33	936
	Oct	7,076	10	143	0	0	176	169	0	59	404
	Nov	11,319	115	391	0	0	945	2,001	0	122	3,068
	Dec	7,828	72	479	0	0	1,284	1,077	0	390	2,751
		<b>Total</b>	<b>115,087</b>	<b>5,200</b>	<b>17,885</b>	<b>0</b>	<b>0</b>	<b>14,685</b>	<b>10,639</b>	<b>0</b>	<b>4,701</b>
	<b>PSE</b>	<b>7.27</b>	<b>27.24</b>	<b>26.40</b>			<b>24.33</b>	<b>24.56</b>		<b>39.97</b>	
2021	Jan	4,144	365	1,370	0	0	959	460	0	0	1,419
	Feb	5,424	269	1,076	0	0	1,113	391	0	441	1,944
	Mar	22,471	1,086	4,508	0	0	417	218	0	240	875
	Apr	13,785	1,462	2,873	0	0	5,074	617	0	263	6,008
	May	14,740	421	1,259	0	0	610	3,596	0	14	4,220
	Jun	4,525	0	0	0	0	35	416	0	0	450
	Jul	7,586	619	2,192	0	0	1,096	1,286	0	167	2,548
	Aug	4,320	241	1,360	0	0	475	544	0	0	1,019
	Sep	7,861	37	83	0	0	346	336	0	240	921
	Oct	6,333	43	200	0	0	245	812	0	163	1,219
	Nov	8,373	101	646	0	0	544	395	0	181	1,120
	Dec	6,270	128	672	0	0	1,420	310	0	61	1,791
		<b>Total</b>	<b>105,833</b>	<b>4,772</b>	<b>18,241</b>	<b>0</b>	<b>0</b>	<b>12,311</b>	<b>8,815</b>	<b>0</b>	<b>1,769</b>
	<b>PSE</b>	<b>6.10</b>	<b>17.57</b>	<b>18.00</b>			<b>26.23</b>	<b>39.89</b>		<b>28.78</b>	
2020	Jan	7,470	237	1,154	0	0	826	762	0	769	2,357
	Feb	10,417	285	1,016	0	0	755	572	0	100	1,427
	Mar	24,425	969	5,453	0	0	1,086	4,247	0	226	5,560
	Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-	-
	May <sup>2</sup>	-	-	-	-	-	-	-	-	-	-
	Jun	6,528	260	1,284	0	0	784	616	0	54	1,454
	Jul	9,297	578	2,521	0	0	989	1,432	0	98	2,520
	Aug	5,465	75	295	0	0	1,248	641	0	0	1,889
	Sep	8,543	158	588	0	0	575	604	0	7	1,186
	Oct	10,062	40	104	0	0	401	468	0	19	887
	Nov	7,986	78	129	0	0	529	687	0	0	1,215
	Dec	4,347	166	728	0	0	383	410	0	131	925
		<b>Total</b>	<b>94,541</b>	<b>2,846</b>	<b>13,272</b>	<b>0</b>	<b>0</b>	<b>7,575</b>	<b>10,440</b>	<b>0</b>	<b>1,406</b>
	<b>PSE</b>	<b>7.79</b>	<b>23.50</b>	<b>28.06</b>			<b>16.82</b>	<b>28.67</b>		<b>39.36</b>	

<sup>1</sup>The dashes under the harvest of Striped Bass represent the prohibition in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through May 31, 2020, due to the State of North Carolina COVID-19 Safety Protocols.



**Table IV.6 Estimated Striped Bass effort and catch in the CSMA (continued).**

Year	Month	Total Fishing Trips	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2019	Jan	4,702	1,856	6,453	500	1,777	325	3,563	651	206	5,244
	Feb	10,765	2,779	12,279	286	1,122	221	2,288	0	152	2,947
	Mar	14,704	1,595	9,530	152	524	1,177	2,407	274	1,548	5,559
	Apr	11,047	285	1,038	0	0	118	930	0	15	1,063
	May	9,126	227	1,236	0	0	302	2,471	0	183	2,956
	Jun	6,133	1,248	5,953	0	0	1,000	1,583	0	0	2,583
	Jul	8,460	209	785	0	0	212	1,241	0	0	1,453
	Aug	6,818	91	347	0	0	218	1,517	0	15	1,749
	Sep	9,076	89	311	0	0	109	2,930	0	57	3,096
	Oct	9,900	-	-	0	0	332	865	0	0	1,197
	Nov	5,298	131	1,159	0	0	2,591	3,636	0	0	6,226
	Dec	12,874	311	1,488	21	139	1,211	1,427	0	306	2,965
		<b>Total</b>	<b>108,903</b>	<b>8,820</b>	<b>40,580</b>	<b>959</b>	<b>3,562</b>	<b>7,817</b>	<b>24,857</b>	<b>924</b>	<b>2,481</b>
	<b>PSE</b>	<b>5.13</b>	<b>14.85</b>	<b>16.82</b>	<b>38.86</b>	<b>36.95</b>	<b>23.51</b>	<b>14.65</b>	<b>73.67</b>	<b>48.46</b>	
2018	Jan	2,495	1,500	6,166	334	1,047	262	3,751	0	99	4,447
	Feb	17,733	4,617	21,561	1,116	3,560	490	3,549	0	270	5,425
	Mar	14,874	2,709	11,974	717	2,156	710	7,244	491	348	9,511
	Apr	14,300	1,729	7,266	835	2,814	210	2,224	168	134	3,571
	May	13,662	1,403	5,901	16	48	5,140	3,787	0	37	8,980
	Jun	7,019	620	1,914	0	0	1,253	2,166	0	524	3,943
	Jul	7,582	871	4,356	11	34	1,829	1,997	0	464	4,300
	Aug	4,816	684	2,147	0	0	1,306	1,616	0	0	2,922
	Sep	3,944	70	271	0	0	167	488	0	0	655
	Oct	3,980	566	2,553	15	54	52	1,340	0	0	1,407
	Nov	3,880	543	2,030	119	461	182	2,302	0	0	2,604
	Dec	2,729	1,081	3,778	206	709	630	3,664	212	15	4,727
		<b>Total</b>	<b>97,014</b>	<b>16,394</b>	<b>69,917</b>	<b>3,371</b>	<b>10,884</b>	<b>12,232</b>	<b>34,128</b>	<b>871</b>	<b>1,890</b>
	<b>PSE</b>	<b>5.49</b>	<b>10.48</b>	<b>11.57</b>	<b>15.67</b>	<b>15.22</b>	<b>29.15</b>	<b>14.30</b>	<b>44.32</b>	<b>38.38</b>	
2017	Jan	14,743	2,055	7,876	158	593	88	14,351	0	73	14,670
	Feb	26,299	6,542	32,602	1,717	6,808	611	23,151	0	410	25,889
	Mar	15,728	5,208	22,649	1,290	4,765	856	11,610	0	986	14,742
	Apr	13,367	4,672	19,251	1,085	4,022	780	11,257	0	123	13,244
	May	1,847	210	748	0	0	82	1,765	0	0	1,847
	Jun	9,085	984	6,845	0	0	2,098	6,965	0	11	9,074
	Jul	11,417	629	2,932	0	0	6,197	4,525	0	348	11,070
	Aug	5,567	320	2,432	0	0	2,736	2,802	0	14	5,552
	Sep	22,527	124	649	13	48	10,238	12,062	0	107	22,420
	Oct	6,063	1,550	6,705	728	2,486	688	4,287	31	149	5,883
	Nov	8,450	2,241	9,662	1,135	4,074	792	5,623	450	0	8,000
	Dec	6,213	1,589	7,331	1,209	4,178	1,337	3,388	68	71	6,073
		<b>Total</b>	<b>141,306</b>	<b>26,125</b>	<b>119,680</b>	<b>7,334</b>	<b>26,973</b>	<b>26,501</b>	<b>101,787</b>	<b>549</b>	<b>2,293</b>
	<b>PSE</b>	<b>8.90</b>	<b>8.44</b>	<b>10.27</b>	<b>15.76</b>	<b>15.49</b>	<b>25.55</b>	<b>11.52</b>	<b>55.40</b>	<b>25.35</b>	

**Table IV.6 Estimated Striped Bass effort and catch in the CSMA (continued).**

Year	Month	Total Fishing Trips	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2016	Jan	4,980	3,329	17,342	1,344	5,214	575	10,532	0	537	12,988
	Feb	5,739	1,108	4,569	262	943	61	2,082	0	93	2,498
	Mar	24,076	4,588	24,538	635	2,186	405	6,458	0	1,230	8,727
	Apr	20,971	7,426	34,657	3,193	12,042	464	5,389	203	3,523	12,772
	May	18,068	1,196	3,558	0	0	3,058	4,011	0	0	7,069
	Jun	6,761	287	850	0	0	659	1,083	0	0	1,742
	Jul	6,433	113	479	5	17	385	1,586	0	0	1,976
	Aug	5,650	580	1,725	0	0	1,661	897	0	179	2,737
	Sep	7,280	125	126	0	0	670	4,067	0	0	4,737
	Oct	4,721	1,660	7,823	139	495	438	4,652	0	36	5,264
	Nov	4,468	666	2,996	153	540	140	3,932	0	22	4,246
	Dec	6,165	2,597	11,790	966	3,824	2,076	13,199	0	1,159	17,400
	Total	115,311	23,675	110,453	6,697	25,260	10,593	57,886	203	6,779	82,157
PSE	4.90	9.30	12.06	21.20	19.02	18.73	11.97	100.00	31.88		
2015	Jan	5,168	2,917	11,748	709	2,613	278	3,113	0	54	4,155
	Feb	2,752	1,245	5,666	493	1,854	64	1,405	0	22	1,983
	Mar	15,483	1,422	7,253	585	2,062	268	564	0	115	1,532
	Apr	18,494	3,322	11,024	507	1,830	122	1,385	0	303	2,316
	May	19,475	514	1,455	56	211	544	36	0	107	743
	Jun	7,836	426	1,918	0	0	565	456	0	0	1,021
	Jul	7,404	335	1,583	0	0	3,470	388	0	19	3,877
	Aug	8,557	611	2,286	0	0	153	205	0	0	358
	Sep	5,357	414	1,718	0	0	1,189	1,442	0	0	2,630
	Oct	6,940	1,927	10,391	277	977	596	3,263	0	133	4,269
	Nov	6,207	1,964	9,682	526	1,904	108	3,930	0	13	4,576
	Dec	6,299	3,062	14,673	781	2,819	696	6,260	40	47	7,824
	Total	109,972	18,159	79,398	3,934	14,269	8,052	22,448	40	813	35,287
PSE	5.50	8.94	10.62	20.26	19.55	32.37	13.92	73.74	26.99		
2014	Jan	2,280	1,259	4,973	329	1,284	58	49	0	45	482
	Feb	9,217	2,010	7,426	498	2,045	524	502	98	234	1,856
	Mar	15,889	2,673	12,722	769	3,192	604	2,392	310	709	4,783
	Apr	15,961	2,464	13,448	603	2,502	932	2,542	144	126	4,347
	May	12,216	599	2,811	0	0	733	1,032	0	20	1,785
	Jun	5,737	391	1,755	0	0	480	522	0	0	1,003
	Jul	4,361	59	89	0	0	101	187	0	0	288
	Aug	5,391	501	1,694	0	0	1,000	1,553	0	0	2,553
	Sep	2,777	256	708	0	0	2,215	75	0	0	2,290
	Oct	6,702	2,038	8,043	117	431	44	2,909	0	7	3,077
	Nov	5,412	1,475	6,583	579	2,369	929	3,937	177	93	5,715
	Dec	7,746	1,957	10,064	405	1,547	314	4,206	0	407	5,331
	Total	93,690	15,682	70,316	3,301	13,368	7,934	19,905	728	1,641	33,510
PSE	5.60	10.08	13.09	20.38	21.53	22.73	20.81	48.97	40.28		

**Table IV.6 Estimated Striped Bass effort and catch in the CSMA (continued).**

Year	Month	Total Fishing Trips	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2013	Jan	5,932	2,541	10,032	742	2,535	136	2,471	0	253	3,602
	Feb	7,563	2,107	9,704	783	2,784	156	2,327	102	799	4,167
	Mar	33,742	3,253	13,766	808	3,021	149	1,599	0	110	2,665
	Apr	30,203	4,029	16,509	1,106	3,912	92	3,529	0	178	4,905
	May	12,042	265	899	0	0	758	1,009	0	20	1,787
	Jun	3,447	272	1,138	0	0	1,199	1,323	0	0	2,522
	Jul	5,830	668	2,203	0	0	336	1,213	0	0	1,549
	Aug	10,123	1,286	6,971	0	0	2,517	1,157	0	534	4,208
	Sep	8,496	387	1,181	0	0	4,340	2,144	0	0	6,483
	Oct	5,593	2,039	8,625	1,043	3,834	330	1,051	32	313	2,770
	Nov	6,613	1,247	5,299	487	1,672	310	693	127	81	1,699
	Dec	6,790	2,299	10,591	498	1,779	296	879	185	68	1,926
	Total	136,374	20,394	86,918	5,467	19,537	10,619	19,394	447	2,357	38,283
PSE	5.40	8.03	8.73	12.86	13.26	29.23	13.35	43.61	27.70		
2012	Jan	6,516	3,642	14,343	1,039	3,877	377	2,908	48	619	4,990
	Feb	13,229	2,628	8,377	616	2,483	728	3,081	189	522	5,137
	Mar	22,454	2,119	7,603	406	1,585	698	1,224	0	394	2,722
	Apr	17,041	2,616	12,606	424	1,662	103	1,129	0	592	2,249
	May	10,221	1,007	3,014	34	119	1,054	2,671	0	45	3,804
	Jun	7,080	182	743	41	157	400	844	0	0	1,284
	Jul	3,940	787	2,417	0	0	6,277	2,416	0	0	8,693
	Aug	5,649	299	1,400	0	0	809	2,486	0	0	3,295
	Sep	8,503	1,040	4,612	15	58	2,247	2,719	0	30	5,011
	Oct	4,199	1,388	6,423	377	1,419	221	787	12	80	1,477
	Nov	6,165	1,105	4,041	530	2,033	314	3,273	152	171	4,441
	Dec	5,692	1,542	6,384	440	1,847	392	2,805	38	457	4,133
	Total	110,689	18,338	71,964	3,922	15,240	13,621	26,343	439	2,910	47,236
PSE	5.10	9.24	9.92	15.50	15.16	37.29	13.08	66.78	22.97		
2011	Jan	2,033	994	3,838	179	719	89	115	0	264	647
	Feb	5,544	2,743	11,954	519	1,862	223	1,569	0	522	2,833
	Mar	5,130	1,142	4,300	97	434	150	625	0	190	1,062
	Apr	3,278	437	2,148	146	227	367	943	0	91	1,547
	May	6,479	202	465	0	0	586	849	0	43	1,478
	Jun	3,748	423	1,895	0	0	1,380	616	0	222	2,218
	Jul	3,022	177	683	0	0	550	542	0	103	1,195
	Aug	3,432	100	356	0	0	312	336	0	57	705
	Sep	951	226	554	0	0	1,025	20	0	0	1,045
	Oct	2,071	905	3,696	182	366	168	1,288	0	24	1,662
	Nov	5,547	3,330	13,356	761	2,543	278	6,720	0	178	7,937
	Dec	4,011	1,929	8,295	843	3,325	268	3,038	0	434	4,583
	Total	45,246	12,608	51,540	2,727	9,476	5,396	16,661	0	2,128	26,912
PSE	8.90	14.49	14.90	17.26	17.26	25.26	11.93		23.64		

**Table IV.6 Estimated Striped Bass effort and catch in the CSMA (continued).**

Year	Month	Total Fishing Trips	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2010	Jan	1,524	842	3,661	258	1,104	242	639	0	63	1,202
	Feb	293	247	835	147	583	14	349	0	46	556
	Mar	2,757	1,076	4,263	413	1,674	153	982	6	95	1,649
	Apr	4,545	1,296	4,998	289	1,088	0	638	7	36	970
	May	7,494	266	1,772	263	0	136	78	0	0	477
	Jun	2,303	47	135	0	0	382	20	0	0	402
	Jul	3,338	62	212	0	0	241	198	0	0	439
	Aug	4,195	459	1,315	0	0	970	128	0	0	1,098
	Sep	3,927	0	0	0	0	55	21	0	21	97
	Oct	2,765	745	2,718	92	146	83	730	0	88	993
	Nov	3,450	750	2,730	140	426	119	794	5	6	1,064
	Dec	926	769	2,716	155	515	5	624	11	5	800
		<b>Total</b>	<b>37,517</b>	<b>6,559</b>	<b>25,355</b>	<b>1,757</b>	<b>5,536</b>	<b>2,401</b>	<b>5,200</b>	<b>29</b>	<b>361</b>
	<b>PSE</b>	<b>8.60</b>	<b>12.75</b>	<b>13.86</b>	<b>22.97</b>	<b>22.97</b>	<b>29.56</b>	<b>15.85</b>	<b>52.34</b>	<b>26.11</b>	
2009	Jan	2,090	509	2,355	78	261	36	236	7	139	496
	Feb	3,656	1,044	5,230	108	356	51	765	0	251	1,175
	Mar	4,022	667	2,588	102	379	47	230	0	85	464
	Apr	7,409	655	3,543	38	130	4	140	0	198	380
	May	5,171	419	1,770	0	0	442	359	0	0	801
	Jun	4,710	84	626	0	0	564	70	0	0	634
	Jul	2,951	6	29	0	0	15	67	0	0	82
	Aug	2,484	30	145	0	0	229	269	0	14	512
	Sep	2,420	25	149	0	0	321	1,019	0	0	1,340
	Oct	4,289	998	5,945	278	947	46	448	0	0	772
	Nov	4,002	836	3,097	51	181	13	208	0	0	272
	Dec	2,703	367	1,130	240	809	0	662	0	31	933
		<b>Total</b>	<b>45,907</b>	<b>5,640</b>	<b>26,607</b>	<b>895</b>	<b>3,063</b>	<b>1,768</b>	<b>4,471</b>	<b>7</b>	<b>719</b>
	<b>PSE</b>	<b>7.70</b>	<b>13.97</b>	<b>17.83</b>	<b>20.18</b>	<b>20.18</b>	<b>30.91</b>	<b>18.89</b>	<b>100.00</b>	<b>27.60</b>	
2008	Jan	1,826	1,198	4,325	129	388	0	2,910	0	0	3,039
	Feb	3,013	1,011	4,371	124	424	14	1,850	0	0	1,988
	Mar	5,715	436	2,053	19	66	0	407	0	0	426
	Apr	4,401	441	2,057	13	39	0	533	0	0	546
	May	7,289	765	3,568	63	235	919	1,973	0	37	2,992
	Jun	5,630	234	893	44	144	23	442	0	0	509
	Jul	4,539	228	924	0	0	1,278	208	2,838	0	4,324
	Aug	5,454	256	1,082	0	0	605	359	0	0	964
	Sep	2,825	68	410	0	0	170	505	0	0	675
	Oct	5,433	882	4,052	125	412	26	1,147	0	0	1,298
	Nov	3,700	535	2,592	142	659	272	1,077	0	3	1,494
	Dec	3,063	566	2,088	184	623	9	307	0	51	551
		<b>Total</b>	<b>52,888</b>	<b>6,620</b>	<b>28,415</b>	<b>843</b>	<b>2,990</b>	<b>3,316</b>	<b>11,719</b>	<b>2,838</b>	<b>91</b>
	<b>PSE</b>	<b>6.90</b>	<b>11.60</b>	<b>11.80</b>	<b>25.58</b>	<b>25.58</b>	<b>40.02</b>	<b>17.26</b>	<b>96.24</b>	<b>68.96</b>	

**Table IV.6 Estimated Striped Bass effort and catch in the CSMA (continued).**

Year	Month	Total Fishing Trips	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2007	Jan	3,621	1,527	5,084	1,019	3,095	503	1,708	0	0	3,230
	Feb	2,211	1,276	6,199	176	509	231	4,975	0	0	5,382
	Mar	4,341	1,853	8,790	424	643	53	2,157	0	0	2,634
	Apr	9,586	1,612	6,346	229	891	0	2,084	0	0	2,313
	May	8,195	877	3,694	164	802	70	3,416	0	0	3,650
	Jun	8,221	603	2,415	295	989	189	706	0	0	1,190
	Jul	6,666	814	3,365	394	1,116	274	1,735	0	0	2,403
	Aug	3,766	615	2,866	278	790	187	871	0	0	1,336
	Sep	4,133	142	838	69	205	12	320	0	0	401
	Oct	4,129	842	3,330	313	1,049	114	632	140	0	1,199
	Nov	5,255	261	998	77	249	14	1,341	7	0	1,439
	Dec	5,639	552	2,729	162	456	59	1,726	0	0	1,947
		Total	65,763	10,974	46,654	3,600	10,794	1,706	21,671	147	0
	PSE	7.70	11.10	11.12	23.72	23.72	29.87	12.15	68.10		

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month.**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2022	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	241	483	0	0	0	0	0	0	0
		Apr	0	0	0	0	2,173	0	0	0	2,173
		May	0	0	0	0	0	0	0	0	0
		Total	241	483	0	0	2,173	0	0	0	2,173
	PSE	100.00	100.00			100.00					
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	86	48	0	0	134
		Mar	17	162	0	0	0	23	0	3	27
		Apr	29	58	0	0	113	0	0	0	113
		May	83	125	0	0	0	0	0	14	14
		Total	129	345	0	0	199	71	0	17	287
	PSE	69.46	61.60			47.23	45.11		82.3		
	Lower	Jan	0	0	0	0	144	214	0	0	357
		Feb	292	1,550	0	0	164	1,789	0	6	1,959
		Mar	58	246	0	0	102	337	0	6	445
		Apr	76	209	0	0	371	553	0	187	1,111
		May	974	3,288	0	0	974	1,027	0	1,816	3,817
		Jun	248	834	0	0	448	380	0	802	1,630
		Jul	21	125	0	0	272	260	0	0	532
Aug		28	89	0	0	1,092	414	0	425	1,931	
Sep		93	661	0	0	359	230	0	0	589	
Oct		0	0	0	0	26	145	0	17	188	
Nov		88	167	0	0	757	2,001	0	48	2,806	
Dec		37	275	0	0	1,083	1,049	0	256	2,388	
Total		1,917	7,454	0	0	5,790	8,398	0	3,563	17,752	
PSE	52.46	46.65			26.96	29.92		51.32			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2021 <sup>1</sup>	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	101	370	0	0	27	0	0	0	27
		Apr	308	767	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0
		Total	408	1,137	0	0	27	0	0	0	27
		PSE	50.74	51.70					100.00		
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	41	166	0	0	0	0	0	12	12
		Apr	0	0	0	0	0	0	0	0	0
		May	49	255	0	0	0	0	0	0	0
		Total	91	421	0	0	0	0	0	12	12
		PSE	66.82	68.75						100.00	
	Lower	Jan	248	798	0	0	274	211	0	0	485
		Feb	125	341	0	0	554	115	0	324	993
		Mar	570	2,081	0	0	340	10	0	69	419
		Apr	0	0	0	0	0	0	0	0	0
		May	148	407	0	0	0	113	0	0	113
		Jun	0	0	0	0	11	98	0	0	109
		Jul	576	2,057	0	0	991	1,225	0	167	2,383
		Aug	223	1,293	0	0	446	544	0	0	990
		Sep	37	83	0	0	38	249	0	211	498
		Oct	15	55	0	0	218	508	0	117	843
		Nov	28	73	0	0	165	113	0	79	356
		Dec	25	94	0	0	218	37	0	45	300
		Total	1,995	7,281	0	0	3,255	3,223	0	1,012	7,490
	PSE	37.06	38.08			29.26	31.74		39.63		

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)	
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot		
2020 <sup>1</sup>	Upper	Jan	0	0	0	0	0	0	0	0	0	
		Feb	0	0	0	0	0	0	0	0	0	
		Mar <sup>2</sup>	12	52	0	0	0	0	0	0	0	
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-	-
		May <sup>2</sup>	-	-	-	-	-	-	-	-	-	-
		Total	12	52	0	0	0	0	0	0	0	0
		PSE	100.00	100.00								
	Middle	Jan	0	0	0	0	0	0	0	0	0	
		Feb	0	0	0	0	76	0	0	0	76	
		Mar <sup>2</sup>	248	913	0	0	26	120	0	0	146	
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-	
		May <sup>2</sup>	-	-	-	-	-	-	-	-	-	
		Total	248	913	0	0	103	120	0	0	222	
		PSE	76.60	63.72			61.12	45.67				
	Lower	Jan	57	287	0	0	57	92	0	488	638	
		Feb	32	57	0	0	151	343	0	63	557	
		Mar <sup>2</sup>	0	0	0	0	172	595	0	116	883	
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-	
		May <sup>2</sup>	-	-	-	-	-	-	-	-	-	
		Jun	93	544	0	0	234	453	0	54	741	
		Jul	439	1,966	0	0	531	1,029	0	68	1,658	
		Aug	0	0	0	0	235	147	0	0	382	
		Sep	0	0	0	0	149	191	0	7	348	
		Oct	0	0	0	0	0	320	0	11	330	
		Nov	0	0	0	0	11	35	0	0	46	
		Dec	69	389	0	0	46	188	0	13	248	
		Total	691	3,242	0	0	1,587	3,393	0	852	5,831	
	PSE	32.42	37.08			28.63	32.31		60.47			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.



**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2019	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	0	0	0	0
		Apr	41	94	0	0	0	0	0	0	0
		May	85	739	0	0	0	118	0	0	118
		Total	126	833	0	0	0	118	0	0	118
		PSE	62.34	88.21				58.08			
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	667	1,416	0	0	0	21	0	0	21
		Mar	39	100	0	0	4	31	0	0	35
		Apr	11	18	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0
		Total	716	1,533	0	0	4	52	0	0	56
		PSE	51.06	44.46			100.00	51.07			
	Lower	Jan	635	2,637	481	1,662	6	682	651	206	2,026
		Feb	801	4,017	215	739	59	4	0	152	430
		Mar	745	5,884	152	524	929	269	274	1,548	3,172
		Apr	28	166	0	0	64	26	0	15	105
		May	0	0	0	0	166	0	0	183	349
		Jun	457	2,471	0	0	1,000	420	0	0	1,420
		Jul	81	272	0	0	143	367	0	0	510
		Aug	54	134	0	0	165	243	0	15	423
		Sep	89	311	0	0	109	906	0	57	1,072
		Oct	0	0	0	0	226	238	0	0	464
		Nov	0	0	0	0	522	2,167	0	0	2,689
		Dec	66	412	0	0	793	408	0	132	1,333
		Total	2,955	16,305	849	2,925	4,182	5,731	924	2,307	13,994
		PSE	23.81	29.93	43.39	43.42	25.40	30.47	73.67	51.76	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2018	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	216	1,298	0	0	0	0	0	0	0
		Apr	76	218	0	0	0	0	0	0	0
		May	534	2,265	0	0	3,393	0	0	0	3,393
		Total	827	3,781	0	0	3,393	0	0	0	3,393
		PSE	57.65	56.90			95.00				
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	840	4,727	133	496	0	90	0	113	336
		Mar	345	1,687	45	169	42	0	17	30	135
		Apr	83	342	46	171	0	10	0	19	75
		May	289	867	0	0	0	12	0	37	49
		Total	1,557	7,624	224	837	42	112	17	199	594
		PSE	33.04	34.30	41.70	41.70	87.66	81.96	100.00	63.27	
	Lower	Jan	735	2,803	162	494	252	217	0	70	702
		Feb	543	2,182	151	460	75	767	0	137	1,131
		Mar	627	3,012	177	538	350	756	0	69	1,352
		Apr	216	948	245	744	81	241	0	33	600
		May	71	439	0	0	147	373	0	0	520
		Jun	92	282	0	0	655	310	0	0	965
		Jul	451	2,132	0	0	1,350	301	0	464	2,115
Aug		475	1,766	0	0	811	174	0	0	984	
Sep		0	0	0	0	133	148	0	0	281	
Oct		76	247	6	17	0	0	0	0	6	
Nov		60	167	0	0	0	0	0	0	0	
Dec		346	843	0	0	6	60	0	15	80	
Total		3,692	14,823	741	2,253	3,861	3,347	0	788	8,736	
PSE	15.82	18.21	27.79	27.78	29.73	20.16		61.57			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2017	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	457	944	0	0	0	0	0	0	0
		Apr	571	1,404	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0
		Total	1,028	2,349	0	0	0	0	0	0	0
		PSE	43.31	42.27							
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	736	2,945	62	260	16	301	0	29	407
		Mar	902	5,026	46	195	0	163	0	86	296
		Apr	499	2,001	72	305	15	19	0	15	122
		May	0	0	0	0	0	0	0	0	0
		Total	2,137	9,972	180	761	31	483	0	131	825
		PSE	23.08	29.98	42.62	27.61	70.74	32.71		57.35	
	Lower	Jan	550	1,386	111	430	56	366	0	73	605
		Feb	1,852	11,372	696	3,025	411	6,110	0	276	7,494
		Mar	1,022	5,950	402	1,565	576	1,663	0	537	3,178
		Apr	585	2,155	306	1,191	285	1,804	0	16	2,410
		May	70	189	0	0	0	48	0	0	48
		Jun	760	5,478	0	0	1,384	4,012	0	11	5,408
		Jul	629	2,932	0	0	5,439	2,912	0	288	8,639
		Aug	306	2,397	0	0	2,723	920	0	0	3,643
		Sep	65	386	0	0	4,131	5,393	0	107	9,631
		Oct	348	2,184	196	764	688	1,521	0	36	2,442
		Nov	830	2,554	709	2,676	401	1,716	450	0	3,277
		Dec	269	1,343	587	1,924	219	920	68	4	1,798
		Total	7,285	38,327	3,008	11,576	16,312	27,387	519	1,348	48,573
PSE	16.74	21.35	25.80	24.54	26.40	21.05	60.41	34.49			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2016	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	70	316	0	0	0	0	0	0	0
		Apr	536	1,576	0	0	0	0	0	72	72
		May	41	41	0	0	0	0	0	0	0
		Total	647	1,933	0	0	0	0	0	72	72
		PSE	28.11	29.81						75.12	
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	15	54	0	29	0	0	44
		Mar	83	679	20	72	39	20	0	20	98
		Apr	151	324	0	0	0	37	0	0	37
		May	108	273	0	0	0	38	0	0	38
		Total	341	1,276	34	126	39	123	0	20	216
		PSE	38.05	51.56	73.54	73.54	100.00	52.28		100.00	
	Lower	Jan	533	1,680	357	1,331	166	1,123	0	342	1,988
		Feb	456	1,755	21	78	61	1,062	0	42	1,186
		Mar	2,191	13,462	222	828	135	2,418	0	829	3,604
		Apr	806	3,203	783	2,923	35	1,695	0	439	2,952
		May	110	579	0	0	147	402	0	0	549
		Jun	142	482	0	0	533	121	0	0	654
		Jul	65	309	0	0	326	0	0	0	326
		Aug	444	1,093	0	0	1,483	413	0	179	2,076
		Sep	100	101	0	0	88	1,103	0	0	1,191
		Oct	530	1,776	27	99	398	1,361	0	0	1,786
		Nov	65	126	19	69	0	450	0	0	468
		Dec	677	2,648	44	165	187	515	0	265	1,011
		Total	6,119	27,213	1,472	5,493	3,560	10,665	0	2,096	17,793
PSE	20.59	29.09	58.71	36.99	28.71	21.00		33.65			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2015	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	17	17	0	0	0	0	0	0	0
		Apr	292	625	171	612	0	0	0	0	171
		May	129	419	0	0	0	0	0	0	0
		Total	439	1,061	171	612	0	0	0	0	171
		PSE	45.81	39.72	75.46	75.46					
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	17	59	0	28	0	0	45
		Apr	118	583	33	118	0	0	0	69	102
		May	0	0	0	0	89	0	0	107	196
		Total	118	583	49	178	89	28	0	176	342
		PSE	65.58	73.29	33.40	33.40	100.00	100.00		50.17	
	Lower	Jan	842	2,609	174	605	0	994	0	54	1,222
		Feb	369	1,610	33	114	0	87	0	22	142
		Mar	544	4,522	498	1,736	103	200	0	0	802
		Apr	465	1,122	0	0	0	127	0	0	127
		May	60	122	0	0	64	0	0	0	64
		Jun	197	426	0	0	0	431	0	0	431
		Jul	240	1,025	0	0	1,457	351	0	0	1,808
Aug		542	2,236	0	0	99	32	0	0	131	
Sep		313	1,417	0	0	676	991	0	0	1,667	
Oct		922	3,401	15	51	581	448	0	102	1,145	
Nov		602	2,891	151	527	58	621	0	13	843	
Dec		862	4,722	282	981	58	594	0	21	954	
Total		5,959	26,103	1,153	4,015	3,096	4,876	0	211	9,336	
PSE		13.48	18.59	49.51	46.21	53.23	22.19		50.58		

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2014	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	28	28	0	0	0	0	0	0	0
		Apr	398	809	130	589	0	0	0	0	130
		May	199	398	0	0	0	0	0	0	0
		Total	624	1,235	130	589	0	0	0	0	130
		PSE	43.13	41.76	100.00	100.00					
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	132	468	0	0	0	37	0	0	37
		Apr	0	0	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0
		Total	132	468	0	0	0	37	0	0	37
		PSE	48.02	54.37				100.00			
	Lower	Jan	583	2,605	64	292	38	33	0	38	173
		Feb	978	3,181	44	203	0	208	0	24	277
		Mar	1,345	6,802	492	2,242	534	1,907	0	679	3,612
		Apr	1,114	9,098	179	816	115	385	0	82	762
		May	224	1,595	0	0	439	840	0	0	1,278
		Jun	340	1,471	0	0	299	430	0	0	729
		Jul	59	89	0	0	69	34	0	0	103
		Aug	215	1,091	0	0	872	528	0	0	1,400
		Sep	116	326	0	0	51	0	0	0	51
		Oct	864	2,817	0	0	0	376	0	0	376
		Nov	674	2,325	276	1,260	481	415	0	0	1,172
		Dec	571	2,726	44	202	151	617	0	220	1,033
		Total	7,083	34,127	1,100	5,014	3,050	5,773	0	1,044	10,966
PSE	16.84	23.18	46.59	46.59	37.54	29.22		60.71			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2013	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	39	20	0	0	0	0	0	0	0
		Apr	424	1,071	46	178	0	46	0	66	158
		May	0	0	0	0	0	0	0	0	0
		Total	463	1,091	46	178	0	46	0	66	158
	PSE	42.13	43.81	100.00	100.00		100.00		75.91		
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	47	0	0	47
		Mar	95	362	0	0	0	103	0	25	127
		Apr	19	61	0	0	0	140	0	0	140
		May	0	0	0	0	0		0	0	0
		Total	114	423	0	0	0	289	0	25	314
	PSE	50.17	63.47				57.74		100.00		
	Lower	Jan	1,429	4,401	322	1,070	24	197	0	70	612
		Feb	914	4,065	267	1,009	63	259	0	154	744
		Mar	1,146	6,119	697	2,635	80	937	0	0	1,714
		Apr	639	3,281	339	1,282	72	1,210	0	0	1,621
		May	18	22	0	0	66	39	0	0	105
		Jun	210	871	0	0	23	387	0	0	409
		Jul	602	2,086	0	0	281	1,093	0	0	1,373
		Aug	1,233	6,835	0	0	2,088	751	0	534	3,373
		Sep	264	662	0	0	223	725	0	0	948
		Oct	1,590	7,037	521	2,031	139	263	0	279	1,202
		Nov	604	2,442	181	683	201	222	127	64	795
		Dec	1,206	5,733	190	716	26	291	185	0	691
		Total	9,856	43,554	2,517	9,426	3,286	6,374	312	1,100	13,588
PSE	12.42	13.81	21.72	21.94	25.11	26.46	57.35	53.04			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2012	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	0	0	0	0
		Apr	531	2,395	146	583	36	0	0	108	290
		May	0	0	0	0	0	0	0	0	0
		Total	531	2,395	146	583	36	0	0	108	290
		PSE	61.06	62.65	76.00	76.00	100.0			69.81	
	Middle	Jan	0	0	0	0	0	0	0	0	0
		Feb	37	37	16	0	0	0	0	0	16
		Mar	113	518	0	0	56	19	0	0	94
		Apr	0	0	19	0	0	0	0	0	19
		May	0	0	0	0	0	0	0	0	0
		Total	150	555	54	0	56	19	0	0	129
		PSE	52.48	66.70	54.88		100.0	100.00			
	Lower	Jan	1,010	4,190	494	1,722	93	961	7	74	1,630
		Feb	1,388	4,380	201	856	620	1,963	189	64	3,038
		Mar	523	1,902	91	350	30	128	0	66	315
		Apr	349	2,891	80	307	19	449	0	72	620
		May	727	2,206	0	0	129	1,851	0	45	2,025
		Jun	73	333	41	157	63	361	0	0	465
		Jul	787	2,417	0	0	6,277	2,183	0	0	8,461
		Aug	271	1,276	0	0	759	2,178	0	0	2,936
		Sep	996	4,354	15	58	1,474	1,770	0	30	3,288
		Oct	792	3,866	207	799	31	186	0	80	504
		Nov	455	1,391	83	321	55	1,090	137	75	1,440
		Dec	651	2,497	97	373	101	521	0	50	768
		Total	8,022	31,702	1,308	4,942	9,650	13,642	334	556	25,489
PSE	15.39	15.71	28.08	26.72	51.60	21.84	70.05	30.42			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.



**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2011 <sup>3</sup>	Lower	Jan	300	912	52	214	0	79	0	0	131
		Feb	1,269	4,404	299	1,166	41	647	0	395	1,382
		Mar	502	1,420	0	0	0	49	0	40	89
		Apr	209	859	0	0	329	308	0	0	637
		May	184	415	0	0	277	369	0	0	646
		Jun	277	976	0	0	1,201	462	0	222	1,885
		Jul	137	482	0	0	232	252	0	103	587
		Aug	19	151	0	0	0	86	0	57	143
		Sep	96	147	0	0	189	6	0	0	195
		Oct	468	2,193	57	178	117	822	0	18	1,014
		Nov	1,147	4,544	359	1,186	28	2,792	0	70	3,249
		Dec	1,049	4,890	313	1,065	20	1,554	0	8	1,895
		Total	5,657	21,393	1,080	3,809	2,434	7,426	0	913	11,853
		PSE	18.20	16.03	33.25	33.25	38.93	16.38		47.27	
2010 <sup>3</sup>	Lower	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	0	0	0	0
		Apr	805	2,561	71	252	0	0	0	0	71
		May	205	1,593	0	0	27	0	0	0	27
		Jun	18	61	0	0	320	0	0	0	320
		Jul	24	71	0	0	33	0	0	0	33
		Aug	357	1,116	0	0	968	103	0	0	1,071
		Sep	0	0	0	0	0	0	0	0	0
		Oct	243	1,056	13	42	52	111	0	13	189
		Nov	275	1,328	0	0	40	170	0	0	210
		Dec	413	1,391	25	67	0	315	0	0	340
		Total	2,340	9,177	109	361	1,440	699	0	13	2,261
		PSE	32.22	32.89	69.19	69.19	45.99	43.35		100.00	
2009 <sup>3</sup>	Lower	Jan	0	0	0	0	0	31	0	0	31
		Feb	163	636	0	0	0	74	0	0	74
		Mar	191	736	0	0	0	0	0	0	0
		Apr	413	2,480	0	0	0	13	0	138	151
		May	383	1,587	0	0	239	83	0	0	322
		Jun	62	506	0	0	465	23	0	0	488
		Jul	0	0	0	0	0	0	0	0	0
		Aug	0	0	0	0	0	0	0	0	0
		Sep	0	0	0	0	0	0	0	0	0
		Oct	648	4,575	164	578	0	219	0	0	383
		Nov	529	2,284	0	0	0	0	0	0	0
		Dec	85	191	85	290	0	0	0	0	85
		Total	2,474	12,995	249	868	704	443	0	138	1,534
		PSE	29.76	32.31	56.83	56.83	70.90	46.98		99.83	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.7 Estimated effort, harvest, and discards for Striped Bass in the Neuse River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2008 <sup>3</sup>	Lower	Jan	536	2,068	97	301	0	1,267	0	0	1,364
		Feb	541	1,960	37	90	0	459	0	0	496
		Mar	359	1,724	12	66	0	144	0	0	156
		Apr	109	435	0	0	0	0	0	0	0
		May	407	1,801	0	0	919	1,246	0	0	2,165
		Jun	98	117	0	0	0	269	0	0	269
		Jul	164	164	641	0	1,060	0	2,838	0	0
		Aug	190	756	0	0	445	112	0	0	557
		Sep	0	0	0	0	0	0	0	0	0
		Oct	499	2,222	0	0	26	677	0	0	703
		Nov	125	767	110	562	0	548	0	0	658
		Dec	146	463	149	491	0	79	0	51	279
		Total	3,174	12,954	405	1,510	2,450	4,801	2,838	51	10,545
		PSE	19.88	20.56	46.58	46.58	52.99	36.85	96.24	99.15	
2007 <sup>3</sup>	Lower	Jan	972	2,798	869	2,674	486	464	0	0	1,819
		Feb	384	1,774	103	216	182	135	0	0	420
		Mar	529	2,864	276	0	11	320	0	0	607
		Apr	616	3,295	135	462	0	121	0	0	256
		May	340	1,556	0	0	70	329	0	0	399
		Jun	190	619	190	678	127	32	0	0	349
		Jul	576	2,510	365	1,010	274	1,313	0	0	1,952
		Aug	431	2,114	273	774	187	704	0	0	1,164
		Sep	0	0	0	0	0	126	0	0	126
		Oct	595	1,662	259	888	114	509	140	0	1,022
		Nov	80	181	66	210	9	311	0	0	386
		Dec	252	1,593	80	203	24	494	0	0	598
		Total	4,965	20,966	2,616	7,115	1,484	4,858	140	0	9,098
		PSE	18.73	20.85	31.81	31.81	33.93	22.19	71.16		

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month.**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2022	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	62	488	0	0	15	382	0	0	397
		Mar	193	499	0	0	132	64	0	0	195
		Apr	1,041	2,486	0	0	351	102	0	187	640
		May	0	0	0	0	0	0	0	0	0
		Total	1,296	3,473	0	0	498	547	0	187	1,232
	PSE	34.81	34.09			42.80	66.14		100.00		
	Lower	Jan	92	525	0	0	797	274	0	0	1,071
		Feb	136	521	0	0	373	118	0	291	782
		Mar	25	50	0	0	0	79	0	0	79
		Apr	11	66	0	0	22	0	0	0	22
		May	0	0	0	0	0	0	0	0	0
		Jun	0	0	0	0	0	30	0	0	30
		Jul	0	0	0	0	74	504	0	0	578
		Aug	0	0	0	0	0	0	0	0	0
Sep		20	164	0	0	282	0	0	0	282	
Oct		10	143	0	0	111	0	0	0	111	
Nov		0	0	0	0	142	0	0	0	142	
Dec		0	0	0	0	119	27	0	0	147	
Total	294	1,468	0	0	1,920	1,031	0	291	3,242		
PSE	46.11	46.34			38.18	51.33		100.00			
2021 <sup>1</sup>	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	129	194	0	0	323
		Mar	169	829	0	0	0	48	0	0	48
		Apr	1,001	2,969	0	0	4,409	293	0	263	4,964
		May	224	597	0	0	610	3,455	0	14	4,079
		Total	1,394	4,395	0	0	5,147	3,990	0	277	9,414
	PSE	20.48	28.31			57.19	87.06		94.95		
	Lower	Jan	117	572	0	0	652	180	0	0	832
		Feb	122	684	0	0	418	61	0	0	479
		Mar	115	778	0	0	32	93	0	0	125
		Apr	56	576	0	0	596	0	0	0	596
		May	0	0	0	0	0	27	0	0	27
		Jun	0	0	0	0	0	0	0	0	0
		Jul	43	135	0	0	95	51	0	0	146
		Aug	18	67	0	0	0	0	0	0	0
Sep		0	0	0	0	0	6	0	0	6	
Oct		0	0	0	0	0	0	0	0	0	
Nov		34	134	0	0	335	228	0	0	562	
Dec		81	476	0	0	1,190	236	0	0	1,425	
Total	586	3,421	0	0	3,318	882	0	0	4,199		
PSE	23.64	25.16			27.28	30.24					

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2020 <sup>1</sup>	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	16	64	0	0	62	62	0	0	123
		Mar <sup>2</sup>	543	3,374	0	0	31	2,714	0	0	2,744
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-
		May <sup>2</sup>	-	-	-	-	-	29	-	-	29
		Total	599	3,439	0	0	92	2,775	0	0	2,867
		PSE	91.27	93.11			74.60	96.49			
	Lower	Jan	180	866	0	0	731	640	0	281	1,651
		Feb	229	871	0	0	452	111	0	0	600
		Mar <sup>2</sup>	166	1,114	0	0	858	804	0	0	1,661
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-
		May <sup>2</sup>	-	-	-	-	-	-	-	-	-
		Jun	167	740	0	0	533	139	0	0	672
		Jul	139	555	0	0	451	378	0	0	829
		Aug	75	295	0	0	892	404	0	0	1,296
		Sep	23	180	0	0	403	91	0	0	493
		Oct	13	38	0	0	349	0	0	0	349
Nov		78	129	0	0	72	169	0	0	242	
Dec		40	140	0	0	337	50	0	0	387	
Total		1,109	4,928	0	0	5,078	2,785	0	318	8,181	
PSE	25.41	26.01			22.75	24.33		52.25			
2019	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	600	2,853	29	102	0	474	0	0	503
		Mar	282	1,250	0	0	0	98	0	0	98
		Apr	92	285	0	0	0	262	0	0	262
		May	0	0	0	0	0	29	0	0	29
		Total	974	4,389	29	102	0	863	0	0	892
		PSE	47.22	49.76	100.00	100.00		52.94			
	Lower	Jan	1,153	3,414	15	101	320	2,709	0	0	3,044
		Feb	561	3,131	42	282	162	1,685	0	0	1,890
		Mar	493	2,139	0	0	245	1,671	0	0	1,915
		Apr	89	382	0	0	24	26	0	0	50
		May	143	497	0	0	4	164	0	0	168
		Jun	30	91	0	0	0	269	0	0	269
		Jul	128	513	0	0	69	785	0	0	854
		Aug	0	0	0	0	17	77	0	0	94
		Sep	0	0	0	0	0	725	0	0	725
		Oct	0	0	0	0	18	233	0	0	251
Total	2,927	11,583	78	521	2,486	9,411	0	174	12,149		
PSE	17.51	17.19	63.30	63.30	51.05	20.24		79.93			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2018	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	781	3,125	0	0	0	0	0	0	0
		Mar	568	1,816	0	0	67	47	0	0	114
		Apr	153	632	57	436	0	69	0	0	126
		May	187	1,317	0	0	372	0	0	0	372
		Total	1,688	6,890	57	436	439	116	0	0	612
		PSE	49.27	51.28	80.20	80.21	55.77	51.19			
	Lower	Jan	737	3,141	133	404	10	3,509	0	28	3,681
		Feb	2,429	11,434	801	2,483	414	2,605	0	21	3,841
		Mar	809	3,385	401	1,086	238	4,597	474	249	5,960
		Apr	1,110	4,876	442	1,288	128	1,594	168	82	2,414
		May	303	933	16	48	1,079	3,215	0	0	4,311
		Jun	344	1,043	0	0	590	1,105	0	524	2,219
		Jul	381	2,126	11	34	200	450	0	0	661
		Aug	194	278	0	0	165	243	0	0	408
		Sep	70	271	0	0	34	33	0	0	67
		Oct	322	1,023	0	0	0	248	0	0	248
		Nov	291	814	0	0	104	1,478	0	0	1,582
		Dec	597	2,334	184	624	625	3,174	212	0	4,195
Total		7,586	31,658	1,989	5,967	3,589	22,250	854	904	29,586	
	PSE	15.28	17.97	23.20	23.20	25.89	20.11	45.16	58.15		
2017	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	2,457	11,155	309	1,112	45	10,588	0	21	10,964
		Mar	1,912	7,542	705	2,534	70	1,652	0	303	2,730
		Apr	1,941	9,340	416	1,494	0	0	0	60	476
		May	53	149	0	0	10	0	0	0	10
		Total	6,363	28,187	1,430	5,141	126	12,240	0	385	14,181
		PSE	19.80	22.63	51.15	51.15	53.68	48.31		80.49	
	Lower	Jan	1,379	5,653	26	94	0	12,593	0	0	12,619
		Feb	1,402	6,736	650	2,410	124	5,229	0	84	6,087
		Mar	806	2,541	78	282	210	5,107	0	60	5,455
		Apr	974	3,942	237	857	467	5,493	0	24	6,221
		May	87	409	0	0	72	794	0	0	866
		Jun	224	1,367	0	0	702	1,454	0	0	2,156
		Jul	0	0	0	0	758	401	0	60	1,219
		Aug	15	35	0	0	13	747	0	14	775
		Sep	59	263	13	48	5,931	3,415	0	0	9,359
		Oct	1,085	3,862	485	1,572	0	1,704	0	113	2,302
		Nov	1,314	6,476	244	813	385	1,437	0	0	2,065
		Dec	929	4,373	333	1,349	736	719	20	63	1,849
Total		8,273	35,656	2,065	7,425	9,396	39,094	20	418	50,973	
	PSE	13.84	15.89	18.95	18.93	56.00	19.88	100.00	32.72		

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

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<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2016	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	954	5,093	92	350	0	375	0	170	637
		Apr	4,928	24,501	2,109	8,036	336	1,432	203	2,707	6,786
		May	425	373	0	0	1,048	46	0	0	1,094
		Total	6,307	29,967	2,201	8,386	1,383	1,853	203	2,876	8,517
		PSE	22.67	28.61	40.13	40.13	36.33	30.03	100.0	67.85	
	Lower	Jan	2,533	14,617	949	3,750	409	6,632	0	196	8,184
		Feb	461	1,980	214	767	0	380	0	51	645
		Mar	959	3,687	276	849	196	2,295	0	212	2,979
		Apr	882	4,505	271	981	77	2,165	0	289	2,803
		May	317	1,382	0	0	1,187	1,595	0	0	2,781
		Jun	145	368	0	0	74	461	0	0	534
		Jul	48	169	0	0	0	110	0	0	110
		Aug	136	632	0	0	78	246	0	0	323
		Sep	0	0	0	0	527	2,506	0	0	3,033
		Oct	952	5,224	68	247	33	1,757	0	26	1,885
Nov		555	2,605	0	0	0	290	0	0	290	
Dec		1,615	7,761	881	3,521	1,882	8,799	0	894	12,456	
Total		8,601	42,930	2,659	10,115	4,461	27,236	0	1,668	36,024	
PSE	12.17	14.69	26.11	27.13	33.57	21.66		35.99			
2015	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	60	0	0	60
		Apr	1,380	5,231	175	630	0	382	0	194	751
		May	31	92	0	0	0	0	0	0	0
		Total	1,411	5,324	175	630	0	441	0	194	810
		PSE	32.54	47.04	60.03	60.03		41.90		60.17	
	Lower	Jan	1,983	8,828	499	1,886	278	1,818	0	0	2,595
		Feb	856	3,918	460	1,740	64	1,318	0	0	1,842
		Mar	690	1,922	70	267	143	276	0	115	604
		Apr	1,024	3,144	92	348	0	714	0	40	846
		May	215	722	56	211	391	0	0	0	446
		Jun	229	1,492	0	0	565	0	0	0	565
		Jul	95	558	0	0	2,004	38	0	19	2,060
		Aug	69	51	0	0	50	116	0	0	167
		Sep	100	301	0	0	455	89	0	0	544
		Oct	782	5,503	115	436	0	583	0	32	730
Nov		1,197	6,183	277	1,048	17	2,380	0	0	2,675	
Dec		2,074	9,360	403	1,517	600	4,556	40	26	5,625	
Total		9,314	41,981	1,972	7,453	4,566	11,888	40	232	18,698	
PSE	13.99	15.00	26.27	26.28	44.06	22.20	73.74	53.37			

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<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2014	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	0	0	0	0
		Apr	334	1,001	0	0	108	0	0	13	121
		May	0	0	0	0	0	0	0	0	0
		Total	334	1,001	0	0	108	0	0	13	121
		PSE	54.01	63.14	0	0	100.00			100.0	
	Lower	Jan	652	2,296	265	992	20	17	0	7	309
		Feb	1,021	4,208	453	1,842	524	294	98	210	1,579
		Mar	1,031	4,842	277	950	70	448	310	30	1,135
		Apr	480	1,707	276	1,033	0	1,453	144	31	1,904
		May	0	0	0	0	52	104	0	20	176
		Jun	0	0	0	0	0	44	0	0	44
		Jul	0	0	0	0	28	48	0	0	77
		Aug	286	602	0	0	103	982	0	0	1,085
		Sep	132	368	0	0	703	75	0	0	778
		Oct	1,003	4,461	87	326	44	2,401	0	0	2,533
Nov		718	3,831	204	765	303	3,411	177	59	4,155	
Dec		1,289	6,814	336	1,256	95	3,516	0	162	4,108	
Total		6,612	29,130	1,898	7,163	1,944	12,793	728	518	17,882	
PSE	14.49	15.38	21.58	21.76	28.08	29.23	48.97	35.51			
2013	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	246	1,088	0	0	0	0	0	0	0
		Apr	1,132	4,415	217	753	20	208	0	73	517
		May	0	0	0	0	0	0	0	0	0
		Total	1,378	5,503	217	753	20	208	0	73	517
		PSE	23.42	26.68	56.43	56.43	100.00	52.35		74.77	
	Lower	Jan	899	4,548	371	1,298	112	2,215	0	154	2,852
		Feb	1,138	5,403	509	1,752	93	1,979	102	645	3,328
		Mar	1,711	6,134	110	386	69	513	0	80	772
		Apr	1,595	6,238	411	1,382	0	1,165	0	23	1,598
		May	82	407	0	0	366	890	0	20	1,276
		Jun	50	183	0	0	1,149	884	0	0	2,033
		Jul	63	105	0	0	0	25	0	0	25
		Aug	52	136	0	0	424	278	0	0	702
		Sep	123	519	0	0	3,808	1,391	0	0	5,199
		Oct	353	1,185	244	854	164	142	32	29	610
Nov		498	1,679	89	313	10	194	0	0	293	
Dec		869	3,604	157	551	186	427	0	68	838	
Total		7,433	30,142	1,891	6,537	6,381	10,103	134	1,018	19,527	
PSE	13.37	13.76	21.54	21.49	46.89	18.53	57.08	27.54			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

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<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2012	Upper	Jan	0	0	0	0	0	0	0	0	0
		Feb	105	371	0	0	0	0	0	0	0
		Mar	393	846	0	0	0	89	0	0	89
		Apr	498	1,931	126	484	49	13	0	364	551
		May	73	183	0	0	0	37	0	0	37
		Total	1,069	3,332	126	484	49	139	0	364	677
		PSE	27.70	28.28	41.07	41.07	100.00	70.29		55.02	
	Lower	Jan	2,529	9,846	525	2,086	284	1,753	0	545	3,107
		Feb	1,013	3,218	399	1,564	108	1,052	0	458	2,018
		Mar	1,084	4,319	264	1,048	604	844	0	328	2,040
		Apr	1,168	5,081	53	210	0	419	0	48	521
		May	187	490	0	0	910	589	0	0	1,500
		Jun	110	410	0	0	306	414	0	0	720
		Jul	0	0	0	0	0	71	0	0	71
		Aug	28	124	0	0	0	91	0	0	91
		Sep	17	64	0	0	519	527	0	0	1,046
		Oct	407	1,467	54	215	166	505	0	0	726
		Nov	558	2,281	317	1,256	242	1,844	0	96	2,498
		Dec	765	3,394	310	1,357	291	2,050	17	407	3,076
		Total	7,867	30,695	1,923	7,737	3,431	10,159	17	1,882	17,412
PSE	13.25	15.10	22.91	22.48	25.29	16.51	100.00	33.54			

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<sup>3</sup>Only lower zone was sampled prior to 2012.



**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2011 <sup>3</sup>	Lower	Jan	660	2,833	127	504	89	36	0	264	516
		Feb	1,473	7,551	210	696	182	922	0	127	1,441
		Mar	593	2,723	86	381	140	561	0	128	915
		Apr	100	492	83	0	25	518	0	91	717
		May	17	50	0	0	277	408	0	38	723
		Jun	0	0	0	0	0	0	0	0	0
		Jul	23	88	0	0	316	290	0	0	606
		Aug	81	204	0	0	305	241	0	0	546
		Sep	104	157	0	0	836	0	0	0	836
		Oct	281	910	70	0	23	320	0	0	413
		Nov	2,063	8,007	217	783	246	3,624	9	108	4,204
		Dec	814	3,243	441	1,889	248	1,142	0	368	2,199
		Total	6,209	26,258	1,234	4,253	2,687	8,062	9	1,124	13,116
		PSE	24.11	25.75	20.00	20.00	36.08	18.90	96.86	22.39	
2010 <sup>3</sup>	Lower	Jan	736	3,469	258	1,104	242	591	0	63	1,154
		Feb	217	725	136	546	14	349	0	46	545
		Mar	1,056	4,097	396	1,581	153	982	6	95	1,632
		Apr	466	2,348	188	761	0	572	0	36	796
		May	46	69	263	0	87	29	0	0	379
		Jun	28	74	0	0	7	10	0	0	17
		Jul	38	141	0	0	195	0	0	0	195
		Aug	102	199	0	0	0	10	0	0	10
		Sep	0	0	0	0	31	10	0	21	62
		Oct	438	1,379	48	0	30	504	0	66	648
		Nov	471	1,387	111	340	79	581	5	6	782
		Dec	315	1,214	110	364	5	287	11	5	418
		Total	3,913	15,102	1,510	4,696	843	3,925	22	338	6,638
		PSE	12.44	15.69	26.14	26.14	29.67	18.90	62.81	27.39	
2009 <sup>3</sup>	Lower	Jan	399	1,865	26	80	36	173	0	79	314
		Feb	750	4,102	78	259	51	667	0	195	991
		Mar	247	1,016	50	195	37	109	0	0	196
		Apr	212	863	0	0	0	86	0	0	86
		May	35	183	0	0	0	10	0	0	10
		Jun	23	120	0	0	33	15	0	0	48
		Jul	6	29	0	0	0	0	0	0	0
		Aug	19	117	0	0	142	222	0	0	364
		Sep	25	149	0	0	154	214	0	0	368
		Oct	190	563	19	60	46	96	0	0	161
		Nov	307	814	6	18	13	208	0	0	227
		Dec	199	653	54	182	0	547	0	14	615
		Total	2,412	10,474	233	794	512	2,347	0	288	3,380
		PSE	15.62	16.44	20.57	20.57	34.46	21.05		42.31	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.8 Estimated effort, harvest, and discards for Striped Bass in the Tar/Pamlico River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2008 <sup>3</sup>	Lower	Jan	545	1,976	7	17	0	1,231	0	0	1,238
		Feb	384	1,939	52	210	14	1,081	0	0	1,147
		Mar	42	224	8	0	0	183	0	0	191
		Apr	289	1,465	0	0	0	494	0	0	494
		May	289	1,395	52	187	0	263	0	37	352
		Jun	123	738	0	0	23	156	0	0	179
		Jul	65	283	0	0	81	199	0	0	280
		Aug	66	326	0	0	79	156	0	0	235
		Sep	68	410	0	0	87	440	0	0	527
		Oct	313	1,452	28	130	0	420	0	0	448
		Nov	375	1,683	11	39	11	369	0	0	391
		Dec	340	1,392	17	64	0	146	0	0	163
		Total	2,899	13,283	175	647	295	5,138	0	37	5,645
PSE	12.76	13.06	40.18	40.18	38.88	17.55		100.00			
2007 <sup>3</sup>	Lower	Jan	249	1,011	41	98	17	352	0	0	410
		Feb	773	3,934	49	206	50	4,382	0	0	4,481
		Mar	1,181	5,309	100	487	42	1,589	0	0	1,731
		Apr	851	2,489	69	363	0	1,740	0	0	1,809
		May	372	1,384	72	458	0	2,812	0	0	2,884
		Jun	0	0	0	0	0	27	0	0	27
		Jul	50	181	10	32	0	111	0	0	121
		Aug	115	508	0	0	0	116	0	0	116
		Sep	46	145	0	0	0	21	0	0	21
		Oct	137	615	0	0	0	25	0	0	25
		Nov	167	703	0	0	5	532	0	0	537
		Dec	203	722	5	11	0	686	0	0	691
		Total	4,144	17,001	346	1,655	114	12,393	0	0	12,853
PSE	17.26	14.17	35.37	35.37	45.55	18.64					

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>Only lower zone was sampled prior to 2012.

**Table IV.9 Estimated effort, harvest, and discards for Striped Bass in the Pungo River by month.**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2022 <sup>1</sup>	Pungo	Jan	0	0	0	0	75	0	0	0	75
		Feb	0	0	0	0	737	9	0	38	784
		Mar	0	0	0	0	164	300	0	88	551
		Apr	0	0	0	0	130	108	0	18	257
		May	0	0	0	0	71	59	0	0	130
		Jun	0	0	0	0	187	0	0	208	395
		Jul	13	75	0	0	38	0	0	9	47
		Aug	0	0	0	0	9	20	0	0	29
		Sep	0	0	0	0	0	33	0	33	66
		Oct	0	0	0	0	40	24	0	41	105
		Nov	27	224	0	0	47	0	0	73	120
		Dec	36	204	0	0	83	0	0	134	217
		Total	76	503	0	0	1,580	553	0	643	2,776
		PSE	48.67	53.95			39.06	56.39		40.10	
2021 <sup>1</sup>	Pungo	Jan	0	0	0	0	33	68	0	0	102
		Feb	21	51	0	0	11	21	0	117	149
		Mar <sup>2</sup>	58	201	0	0	7	67	0	160	234
		Apr <sup>2</sup>	0	0	0	0	69	69	0	0	139
		May <sup>2</sup>	0	0	0	0	0	0	0	0	0
		Jun	0	0	0	0	13	8	0	0	21
		Jul	0	0	0	0	10	10	0	0	20
		Aug	0	0	0	0	29	0	0	0	29
		Sep	0	0	0	0	308	81	0	29	418
		Oct	28	146	0	0	26	304	0	46	376
		Nov	39	439	0	0	45	55	0	102	202
		Dec	22	105	0	0	13	38	0	16	66
		Total	167	942	0	0	564	721	0	469	1,754
		PSE	39.09	52.31			49.20	30.19		36.43	
2020 <sup>1</sup>	Pungo	Jan	0	0	0	0	37	30	0	0	68
		Feb	0	0	0	0	14	57	0	0	71
		Mar <sup>2</sup>	0	0	0	0	0	15	0	110	125
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-
		May <sup>2</sup>	-	-	-	-	-	-	-	-	-
		Jun	0	0	0	0	18	24	0	0	42
		Jul	0	0	0	0	7	25	0	0	33
		Aug	0	0	0	0	120	90	0	0	211
		Sep	136	408	0	0	23	322	0	0	345
		Oct	27	66	0	0	51	149	0	8	208
		Nov	0	0	0	0	445	482	0	0	927
		Dec	57	199	0	0	0	172	0	118	290
		Total	220	673	0	0	716	1,367	0	236	2,319
		PSE	65.66	64.48			38.00	25.58		48.55	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.9 Estimated effort, harvest, and discards for Striped Bass in the Pungo River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2019	Pungo	Jan	68	402	3	14	0	171	0	0	174
		Feb	149	861	0	0	0	103	0	0	103
		Mar	37	156	0	0	0	335	0	0	335
		Apr	0	0	0	0	30	201	0	0	231
		May	0	0	0	0	132	97	0	0	228
		Jun	760	3,390	0	0	0	894	0	0	894
		Jul	0	0	0	0	0	89	0	0	89
		Aug	38	213	0	0	36	1,197	0	0	1,233
		Sep	0	0	0	0	0	1,299	0	0	1,299
		Oct	0	0	0	0	89	393	0	0	482
		Nov	47	819	0	0	786	1,059	0	0	1,845
		Dec	0	0	0	0	72	362	0	0	435
		Total	1,099	5,842	3	14	1,146	6,200	0	0	7,349
PSE	70.87	61.75	100.00	100.00	69.87	24.04					
2018	Pungo	Jan	28	222	39	149	0	26	0	0	64
		Feb	23	92	31	122	0	86	0	0	118
		Mar	127	740	94	363	13	1,844	0	0	1,950
		Apr	90	250	45	174	0	311	0	0	356
		May	12	55	0	0	9	187	0	0	196
		Jun	185	589	0	0	8	751	0	0	759
		Jul	39	97	0	0	278	1,246	0	0	1,523
		Aug	15	103	0	0	331	1,199	0	0	1,530
		Sep	0	0	0	0	0	307	0	0	307
		Oct	169	1,282	10	37	52	1,092	0	0	1,154
		Nov	192	1,048	119	461	78	825	0	0	1,022
		Dec	138	601	22	85	0	430	0	0	452
		Total	1,019	5,080	360	1,391	768	8,304	0	0	9,432
PSE	28.03	26.69	31.47	31.47	34.45	21.95					
2017	Pungo	Jan	126	837	21	68	32	1,392	0	0	1,445
		Feb	69	236	0	0	0	923	0	0	923
		Mar	109	645	58	188	0	3,024	0	0	3,083
		Apr	102	408	54	175	13	3,941	0	7	4,015
		May	0	0	0	0	0	923	0	0	923
		Jun	0	0	0	0	12	1,498	0	0	1,510
		Jul	0	0	0	0	0	1,212	0	0	1,212
		Aug	0	0	0	0	0	1,135	0	0	1,135
		Sep	0	0	0	0	175	3,254	0	0	3,430
		Oct	118	658	46	149	0	1,062	31	0	1,139
		Nov	98	632	182	586	6	2,469	0	0	2,658
		Dec	392	1,615	289	905	383	1,749	0	4	2,426
		Total	1,013	5,031	652	2,070	622	22,582	31	11	23,898
PSE	16.20	17.81	24.43	24.39	2.51	11.48	100.00	72.12			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.9 Estimated effort, harvest, and discards for Striped Bass in the Pungo River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2016	Pungo	Jan	263	1,045	39	132	0	2,777	0	0	2,816
		Feb	191	834	13	43	0	610	0	0	623
		Mar	153	551	25	87	24	1,337	0	0	1,387
		Apr	37	233	30	102	0	60	0	15	105
		May	68	512	0	0	88	1,930	0	0	2,018
		Jun	0	0	0	0	52	501	0	0	554
		Jul	0	0	5	17	60	1,475	0	0	1,540
		Aug	0	0	0	0	100	237	0	0	338
		Sep	26	25	0	0	56	458	0	0	514
		Oct	177	823	44	149	6	1,533	0	10	1,593
		Nov	46	265	134	471	140	3,192	0	22	3,488
		Dec	306	1,382	40	138	7	3,885	0	0	3,933
				<b>Total</b>	<b>1,268</b>	<b>5,670</b>	<b>330</b>	<b>1,139</b>	<b>534</b>	<b>17,997</b>	<b>0</b>
		<b>PSE</b>	<b>18.01</b>	<b>19.14</b>	<b>29.26</b>	<b>29.45</b>	<b>34.08</b>	<b>15.57</b>		<b>60.47</b>	
2015	Pungo	Jan	93	312	37	122	0	302	0	0	339
		Feb	20	138	0	0	0	0	0	0	0
		Mar	59	371	0	0	0	0	0	0	0
		Apr	24	137	37	122	122	0	0	0	158
		May	0	0	0	0	0	22	0	0	22
		Jun	0	0	0	0	0	25	0	0	25
		Jul	0	0	0	0	9	0	0	0	9
		Aug	0	0	0	0	4	57	0	0	60
		Sep	0	0	0	0	58	361	0	0	419
		Oct	223	1,488	147	490	15	2,232	0	0	2,394
		Nov	166	608	98	329	32	929	0	0	1,059
		Dec	126	592	96	321	39	1,110	0	0	1,246
				<b>Total</b>	<b>711</b>	<b>3,644</b>	<b>414</b>	<b>1,383</b>	<b>279</b>	<b>5,038</b>	<b>0</b>
		<b>PSE</b>	<b>21.68</b>	<b>30.39</b>	<b>27.88</b>	<b>27.83</b>	<b>50.66</b>	<b>25.02</b>			
2014	Pungo	Jan	24	71	0	0	0	0	0	0	0
		Feb	11	37	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	0	0	0	0
		Apr	0	0	18	64	0	0	0	0	18
		May	14	70	0	0	120	71	0	0	191
		Jun	52	284	0	0	181	48	0	0	230
		Jul	0	0	0	0	3	104	0	0	107
		Aug	0	0	0	0	25	42	0	0	68
		Sep	8	14	0	0	1,460	0	0	0	1,460
		Oct	171	766	30	105	-	132	0	7	169
		Nov	83	427	99	344	145	111	0	34	388
		Dec	97	524	25	88	67	73	0	25	190
				<b>Total</b>	<b>459</b>	<b>2,192</b>	<b>173</b>	<b>602</b>	<b>2,002</b>	<b>582</b>	<b>0</b>
		<b>PSE</b>	<b>25.29</b>	<b>26.86</b>	<b>41.83</b>	<b>36.19</b>	<b>56.26</b>	<b>26.48</b>		<b>56.38</b>	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.9 Estimated effort, harvest, and discards for Striped Bass in the Pungo River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2013	Pungo	Jan	212	1,082	50	168	0	59	0	29	137
		Feb	55	237	7	23	0	41	0	0	48
		Mar	16	45	0	0	0	46	0	6	52
		Apr	128	1,043	94	317	0	679	0	16	790
		May	0	0	0	0	63	69	0	0	132
		Jun	12	84	0	0	27	52	0	0	80
		Jul	4	12	0	0	55	96	0	0	151
		Aug	0	0	0	0	5	128	0	0	133
		Sep	0	0	0	0	309	27	0	0	336
		Oct	96	403	278	948	27	646	0	6	957
		Nov	145	1,178	217	676	99	277	0	17	611
		Dec	225	1,253	151	512	84	162	0	0	397
			Total		892	5,336	796	2,644	669	2,282	0
	PSE		21.78	23.15	23.27	23.57	20.76	24.50		40.77	
2012	Pungo	Jan	103	307	20	70	0	194	0	40	254
		Feb	85	372	0	0	0	66	0	0	66
		Mar	6	17	31	110	8	144	0	0	183
		Apr	69	308	0	0	0	248	0	0	248
		May	19	135	34	119	14	193	0	0	241
		Jun	0	0	0	0	31	68	0	0	99
		Jul	0	0	0	0	0	162	0	0	162
		Aug	0	0	0	0	50	217	0	0	268
		Sep	27	193	0	0	255	423	0	0	677
		Oct	188	1,090	116	406	24	96	0	12	248
		Nov	92	369	130	456	18	340	0	15	503
		Dec	109	494	33	117	0	234	0	21	289
			Total		700	3,285	365	1,277	400	2,385	0
	PSE		19.65	25.95	37.41	37.41	49.43	16.90		46.41	
2011	Pungo	Jan	34	94	0	0	0	0	0	0	0
		Feb	0	0	9	0	0	0	0	0	9
		Mar	46	157	11	52	11	14	0	22	58
		Apr	128	797	63	227	13	117	0	0	193
		May	0	0	0	0	32	72	0	0	104
		Jun	146	919	0	0	180	153	0	0	333
		Jul	17	113	0	0	3	0	0	0	3
		Aug	0	0	0	0	7	9	0	0	16
		Sep	26	250	0	0	0	14	0	0	14
		Oct	156	593	56	189	27	146	0	6	235
		Nov	121	804	186	573	3	304	0	0	493
		Dec	66	162	89	371	0	342	0	58	489
			Total		740	3,889	414	1,412	276	1,171	0
	PSE		24.46	31.81	43.27	43.27	50.04	32.19		64.13	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.9 Estimated effort, harvest, and discards for Striped Bass in the Pungo River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2010	Pungo	Jan	33	94	0	0	0	47	0	0	47
		Feb	15	110	11	38	0	0	0	0	11
		Mar	7	116	17	93	0	0	0	0	17
		Apr	16	116	30	76	0	66	7	0	103
		May	12	82	0	0	23	50	0	0	73
		Jun	0	0	0	0	55	10	0	0	65
		Jul	0	0	0	0	13	198	0	0	211
		Aug	0	0	0	0	2	14	0	0	16
		Sep	0	0	0	0	24	11	0	0	35
		Oct	34	249	31	104	1	114	0	9	155
		Nov	4	17	29	86	0	44	0	0	73
		Dec	35	125	20	83	0	22	0	0	42
			Total		156	909	138	480	118	576	7
	PSE		34.44	30.27	27.62	27.62	41.87	33.23	106.90	102.44	
2009	Pungo	Jan	73	497	53	180	0	32	7	59	151
		Feb	77	492	29	96	0	23	0	57	109
		Mar	118	924	52	184	10	121	0	85	268
		Apr	15	172	38	130	4	41	0	60	143
		May	0	0	0	0	203	266	0	0	469
		Jun	0	0	0	0	66	31	0	0	97
		Jul	0	0	0	0	15	67	0	0	82
		Aug	4	49	0	0	88	47	0	14	149
		Sep	0	0	0	0	167	805	0	0	972
		Oct	99	899	95	309	0	133	0	0	228
		Nov	0	0	45	163	0	0	0	0	45
		Dec	66	507	101	337	0	115	0	17	233
			Total		452	3,540	413	1,399	553	1,681	7
	PSE		18.01	17.69	24.65	24.65	24.65	38.81	97.94	25.44	
2008	Pungo	Jan	60	336	24	70	0	412	0	0	436
		Feb	43	473	35	124	0	310	0	0	345
		Mar	28	179	0	0	0	80	0	0	80
		Apr	13	102	13	39	0	39	0	0	52
		May	43	451	11	47	0	465	0	0	476
		Jun	13	92	44	144	0	18	0	0	62
		Jul	0	0	0	0	137	9	0	0	146
		Aug	0	0	0	0	81	92	0	0	173
		Sep	0	0	0	0	83	66	0	0	149
		Oct	32	415	97	282	0	50	0	0	147
		Nov	23	156	21	59	261	159	0	3	444
		Dec	48	345	18	68	9	82	0	0	109
			Total		303	2,549	263	833	571	1,782	0
	PSE		20.68	22.47	29.23	29.23	44.50	21.51		115.47	

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.9 Estimated effort, harvest, and discards for Striped Bass in the Pungo River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2007	Pungo	Jan	165	1,363	109	323	0	892	0	0	1,001
		Feb	69	485	23	87	0	458	0	0	481
		Mar	87	601	48	156	0	249	0	0	297
		Apr	85	588	25	66	0	222	0	0	247
		May	96	699	92	344	0	276	0	0	368
		Jun	191	1,266	104	311	62	647	0	0	813
		Jul	80	772	19	74	0	311	0	0	330
		Aug	34	208	5	16	0	52	0	0	57
		Sep	63	694	69	205	12	173	0	0	254
		Oct	55	672	54	161	0	98	0	0	152
		Nov	8	84	10	39	0	498	7	0	515
		Dec	58	438	77	242	35	546	0	0	658
				<b>Total</b>	991	7,870	635	2,024	109	4,422	7
		PSE	15.81	18.29	22.40	22.40	56.18	14.99	93.68		

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.



**Table IV.10 Estimated effort, harvest, and discards for Striped Bass in the Cape Fear River by month.**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2022 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	450	1,351	0	0	225	0	0	0	225
		Mar	0	0	0	0	0	0	0	0	0
		Apr	771	2,711	0	0	2,282	38	0	0	2,320
		May	26	97	0	0	19	0	0	0	19
		Total	1,247	4,159	0	0	2,526	38	0	0	2,564
		PSE	67.35	67.95			85.25	100.00			
2021 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	34	84	0	0	11	0	0	0	11
		Apr	98	561	0	0	0	309	0	0	309
		May	0	0	0	0	0	0	0	0	0
		Total	131	645	0	0	11	309	0	0	321
		PSE	52.05	57.34			100.00	46.67			
2020 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	8	25	0	0	0	0	0	0	0
		Mar <sup>2</sup>	-	-	-	-	-	-	-	-	-
		Apr <sup>2</sup>	-	-	-	-	-	-	-	-	-
		May <sup>2</sup>	-	-	-	-	-	-	-	-	-
		Total	8	25	0	0	0	0	0	0	0
		PSE	100.00	100.00							
2019 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	4	0	0	4
		Apr	24	94	0	0	0	415	0	0	415
		May	0	0	0	0	0	2,064	0	0	2,064
		Total	24	94	0	0	0	2,482	0	0	2,482
		PSE	100.00	100.00				82.01			
2018 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	18	35	0	0	0	0	0	0	0
		Apr	0	0	0	0	0	0	0	0	0
		May	7	26	0	0	140	0	0	0	140
		Total	24	61	0	0	140	0	0	0	140
		PSE	77.12	71.51			70.75				
2017 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	26	159	0	0	14	0	0	0	14
		Mar	0	0	0	0	0	0	0	0	0
		Apr	0	0	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0
		Total	26	159	0	0	14	0	0	0	14
		PSE	100.00	100.00			100.00				

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>A moratorium on harvest of Striped Bass in the Cape Fear River was implemented in 2012.

**Table IV.10 Estimated effort, harvest, and discards for Striped Bass in the Cape Fear River by month (continued).**

Year	Area	Month	Target Striped Bass Trips	Target Striped Bass Hours	Harvest <sup>3</sup>		Discard (numbers)				Total Catch (numbers)
					Number	Pounds	Legal-sized	Under-sized	Over-creel	Slot	
2016 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	179	750	0	0	10	12	0	0	22
		Apr	87	315	0	0	17	0	0	0	17
		May	126	399	0	0	588	0	0	0	588
		Total	391	1,464	0	0	616	12	0	0	628
		PSE	46.44	44.35			95.83	100.00			
2015 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	110	422	0	0	22	0	0	0	22
		Apr	19	181	0	0	0	162	0	0	162
		May	79	100	0	0	0	15	0	0	15
		Total	209	702	0	0	22	176	0	0	199
		PSE	50.10	52.97			100.00	57.39			
2014 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	138	582	0	0	0	0	0	0	0
		Apr	138	833	0	0	708	703	0	0	1,412
		May	161	748	0	0	122	17	0	0	139
		Total	438	2,164	0	0	830	721	0	0	1,551
		PSE	41.96	45.87			72.65	77.47			
2013 <sup>3</sup>	Cape Fear	Jan	0	0	0	0	0	0	0	0	0
		Feb	0	0	0	0	0	0	0	0	0
		Mar	0	0	0	0	0	0	0	0	0
		Apr	92	399	0	0	0	81	0	0	81
		May	165	470	0	0	263	11	0	0	274
		Total	257	870	0	0	263	92	0	0	355
		PSE	48.60	63.10			90.75	55.56			

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

<sup>3</sup>A moratorium on harvest of Striped Bass in the Cape Fear River was implemented in 2012.

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA.**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2022	Upper Neuse	Jan	0	0	0	0	0	0
		Feb	753	2,156	0	5	51	314
		Mar	1,030	2,179	20	16	99	87
		Apr	118	533	0	0	0	0
		May	0	0	0	0	0	0
		Total	1,901	4,868	20	21	150	401
	Middle Neuse	Jan	52	30	0	0	0	0
		Feb	1,519	6,417	9	77	1,446	2,104
		Mar	1,529	4,410	7	82	1,745	9,621
		Apr	16	49	0	0	0	0
		May	0	0	0	0	0	0
		Total	3,115	10,905	16	158	3,191	11,725
	Lower Neuse	Jan	0	0	0	0	0	104
		Feb	745	1,109	0	0	620	650
		Mar	456	799	0	0	71	467
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	0
		Total	1,200	1,908	0	0	691	1,221
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	512	1,186	82	358	50	445
		Mar	3,508	4,488	69	318	811	3,538
		Apr	1,611	2,515	322	694	28	58
		May	0	0	0	0	0	0
		Total	5,631	8,189	473	1,370	888	4,042
	Lower	Jan	0	0	0	0	0	0
		Feb	14	34	0	0	9	0
		Mar	0	0	0	0	0	0
Apr		0	0	0	0	0	0	
May		0	0	0	0	0	0	
Total		14	34	0	0	9	0	
Cape Fear	Jan	0	0	0	0	0	0	
	Feb	105	490	126	0	0	0	
	Mar	94	275	38	54	0	0	
	Apr	923	2,394	2,496	520	0	0	
	May	136	839	6	378	0	0	
	Total	1,257	3,998	2,666	953	0	0	
All Areas	Jan	52	30	0	0	0	104	
	Feb	3,646	11,392	217	440	2,176	3,514	
	Mar	6,617	12,151	134	470	2,726	13,713	
	Apr	2,669	5,490	2,818	1,214	28	58	
	May	136	839	6	378	0	0	
	Total	13,119	29,903	3,176	2,503	4,930	17,389	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2021 <sup>2</sup>	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	95	211	0	0	0	0
		Mar	1,599	5,380	12	39	1,810	1,469
		Apr	92	242	0	0	0	0
		May	0	0	0	0	0	0
		Total	1,785	5,833	12	39	1,810	1,469
		Middle Neuse River	Jan	0	0	0	0	0
Feb	729		1,262	0	0	65	130	
Mar	2,371		8,461	13	14	4,490	15,349	
Apr	87		71	0	0	0	326	
May	0		0	0	0	0	0	
Total	3,187		9,794	13	14	4,555	15,806	
Lower Neuse River	Jan	0	0	0	0	0	0	
	Feb	148	72	0	0	0	24	
	Mar	1,330	3,395	11	0	1,124	2,328	
	Apr	130	285	0	0	0	0	
	May	0	0	0	0	0	0	
	Total	1,608	3,752	11	0	1,124	2,352	
Upper Tar River	Jan	0	0	0	0	0	0	
	Feb	599	511	0	0	0	19	
	Mar	7,809	19,626	430	975	5,345	13,666	
	Apr	1,837	3,293	302	3,256	29	190	
	May	0	0	0	0	0	14	
	Total	10,245	23,429	731	4,231	5,374	13,890	
Lower Tar/Pamlico	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	6	
	Mar	0	0	0	0	0	0	
	Apr	0	0	0	0	0	0	
	May	0	0	0	0	0	0	
	Total	0	0	0	0	0	6	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	166	463	0	0	0	0	
	Mar	694	2,426	369	631	12	0	
	Apr	1,623	8,676	2,164	5,259	0	0	
	May	2,355	16,436	90	1,025	0	0	
	Total	4,838	28,001	2,624	6,914	12	0	
All Areas Combined	Jan	0	0	0	0	0	0	
	Feb	1,737	2,518	0	0	65	179	
	Mar	13,803	39,288	835	1,659	12,781	32,813	
	Apr	3,768	12,567	2,465	8,515	29	517	
	May	2,355	16,436	90	1,025	0	14	
	Total	21,664	70,809	3,391	11,198	12,875	33,523	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2020 <sup>2</sup>	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	640	1,614	0	0	0	0
		Mar <sup>3</sup>	2,166	6,407	646	199	183	57
		Apr <sup>3</sup>	-	-	-	-	-	-
		May <sup>3</sup>	-	-	-	-	-	-
		Total	2,806	8,021	646	199	183	57
	Middle Neuse River	Jan	0	0	0	0	0	0
		Feb	1,433	5,253	39	326	3,327	2,606
		Mar <sup>3</sup>	5,609	23,526	145	2,205	9,684	47,390
		Apr <sup>3</sup>	-	-	-	-	-	-
		May <sup>3</sup>	-	-	-	-	-	-
		Total	7,042	28,780	184	2,531	13,011	49,996
	Lower Neuse River	Jan	0	0	0	0	0	0
		Feb	326	654	0	0	628	296
		Mar <sup>3</sup>	322	1,396	0	83	311	1,878
		Apr <sup>3</sup>	-	-	-	-	-	-
		May <sup>3</sup>	-	-	-	-	-	-
		Total	648	2,050	-	83	939	2,173
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	1,556	4,837	0	359	16	1,456
		Mar <sup>3</sup>	4,319	15,037	209	376	721	14,146
		Apr <sup>3</sup>	-	-	-	-	-	-
		May <sup>3</sup>	-	-	-	-	-	-
		Total	5,876	19,875	209	736	738	15,602
	Lower Tar/Pamlico	Jan	0	0	0	0	0	160
		Feb	38	296	0	0	0	32
		Mar <sup>3</sup>	0	0	0	102	0	0
Apr <sup>3</sup>		-	-	-	-	-	-	
May <sup>3</sup>		-	-	-	-	-	-	
Total		38	296	0	102	0	191	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar <sup>3</sup>	1,050	4,453	3,582	3,740	0	0	
	Apr <sup>3</sup>	-	-	-	-	-	-	
	May <sup>3</sup>	-	-	-	-	-	-	
	Total	1,050	4,453	3,582	3,740	-	-	
All Areas Combined	Jan	0	0	0	0	0	160	
	Feb	3,992	12,654	39	685	3,971	4,390	
	Mar <sup>3</sup>	13,468	50,820	4,582	6,706	10,900	63,470	
	Apr <sup>3</sup>	-	-	-	-	-	-	
	May <sup>3</sup>	-	-	-	-	-	-	
	Total	17,459	63,474	4,642	7,391	14,871	68,020	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2019	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	653	204	0	0	0	0
		Mar	862	1,463	39	0	26	69
		Apr	194	792	111	0	0	0
		May	0	0	0	0	0	0
		Total	1,708	2,459	150	0	26	69
	Middle Neuse River	Jan	0	0	0	0	0	0
		Feb	1,541	5,970	33	6	676	1,279
		Mar	2,213	7,131	4	33	1,550	6,842
		Apr	367	1,442	28	25	146	524
		May	0	0	0	0	0	0
		Total	4,120	14,544	65	64	2,372	8,645
	Lower Neuse River	Jan	307	677	0	0	25	0
		Feb	820	2,822	0	59	499	466
		Mar	746	2,520	0	0	1,088	1,188
		Apr	15	70	0	0	108	46
		May	0	0	0	0	0	0
		Total	1,889	6,088	0	59	1,720	1,701
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	1,958	4,355	12	486	394	708
		Mar	3,187	7,661	171	2,277	3,533	9,446
		Apr	571	1,175	369	357	313	247
		May	0	0	0	0	0	0
		Total	5,716	13,191	552	3,120	4,240	10,401
	Lower Tar/Pamlico	Jan	0	0	0	0	0	0
		Feb	0	0	0	0	0	0
		Mar	15	33	0	0	0	0
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	4
Total		15	33	0	0	0	4	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar	311	805	634	806	0	0	
	Apr	443	1,470	1,387	2,161	0	20	
	May	244	680	250	441	0	0	
	Total	999	2,955	2,271	3,408	0	20	
All Areas Combined	Jan	307	677	0	0	25	0	
	Feb	4,973	13,352	46	551	1,569	2,453	
	Mar	7,334	19,613	848	3,116	6,198	17,546	
	Apr	1,590	4,948	1,894	2,543	567	837	
	May	244	680	250	441	0	4	
	Total	14,448	39,270	3,038	6,652	8,358	20,841	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2018	Upper Neuse	Jan	0	0	0	0	0	0
		Feb	2,655	3,038	30	0	30	0
		Mar	1,271	2,745	24	36	80	0
		Apr	24	84	0	0	0	0
		May	15	7	0	0	0	0
		Total	3,964	5,874	54	36	110	0
	Middle Neuse	Jan	0	0	0	0	0	0
		Feb	5,145	20,422	36	217	9,573	31,837
		Mar	2,997	11,064	22	104	5,637	20,999
		Apr	574	970	0	0	319	399
		May	0	0	0	0	0	0
		Total	8,716	32,457	58	322	15,529	53,235
	Lower Neuse	Jan	0	0	0	0	0	0
		Feb	87	342	0	0	234	56
		Mar	586	2,141	0	0	1,364	4,415
		Apr	0	0	0	0	32	21
		May	0	0	0	0	0	0
		Total	673	2,483	0	0	1,630	4,493
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	2,373	3,287	391	873	195	1,658
		Mar	2,496	6,896	138	391	487	4,060
		Apr	629	2,288	131	1,301	158	298
		May	151	343	25	202	0	25
		Total	5,648	12,814	685	2,767	840	6,041
	Lower	Jan	0	0	0	0	0	0
		Feb	14	15	0	0	0	30
		Mar	0	0	0	0	50	176
Apr		34	73	0	0	34	56	
May		0	0	0	0	0	0	
Total		48	89	0	0	85	262	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar	737	2,774	676	1,298	12	53	
	Apr	1,654	7,850	4,104	2,854	0	0	
	May	217	899	585	196	0	0	
	Total	2,608	11,523	5,365	4,348	12	53	
All Areas	Jan	0	0	0	0	0	0	
	Feb	10,274	27,105	457	1,090	10,033	33,551	
	Mar	8,086	25,620	860	1,829	7,631	29,703	
	Apr	2,915	11,266	4,235	4,155	544	717	
	May	383	1,249	610	398	0	25	
	Total	21,657	65,240	6,162	7,472	18,207	63,997	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2017	Upper Neuse	Jan	0	0	0	0	0	0
		Feb	0	0	0	0	0	0
		Mar	1,146	2,725	44	11	480	273
		Apr	560	1,103	0	0	0	0
		May	0	0	0	0	0	0
		Total	1,706	3,828	44	11	480	273
	Middle Neuse	Jan	0	0	0	0	0	0
		Feb	4,037	14,512	204	782	3,871	13,230
		Mar	4,136	16,841	140	1,285	8,161	33,858
		Apr	549	3,008	19	96	557	3,880
		May	0	0	0	0	0	0
		Total	8,722	34,362	363	2,163	12,590	50,968
	Lower Neuse	Jan	0	0	0	0	0	0
		Feb	1,104	5,957	1	0	402	426
		Mar	1,534	5,928	112	444	3,299	20,577
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	0
		Total	2,638	11,885	113	444	3,701	21,003
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	1,871	6,814	132	318	81	190
		Mar	3,576	9,190	677	1,848	1,550	6,711
		Apr	593	667	88	44	0	207
		May	60	77	1	0	50	1
		Total	6,101	16,748	897	2,210	1,680	7,108
	Lower	Jan	0	0	0	0	0	0
		Feb	22	160	0	7	0	0
		Mar	0	0	0	0	0	0
Apr		52	129	1	0	15	16	
May		0	0	0	0	0	0	
Total		74	290	1	7	15	16	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	623	2,481	319	389	0	0	
	Mar	427	1,647	617	2,147	14	0	
	Apr	319	1,837	416	133	0	0	
	May	0	0	0	0	0	0	
	Total	1,368	5,965	1,352	2,669	14	0	
All Areas	Jan	0	0	0	0	0	0	
	Feb	7,656	29,926	656	1,496	4,354	13,846	
	Mar	10,819	36,330	1,590	5,735	13,504	61,420	
	Apr	2,073	6,744	524	273	572	4,104	
	May	60	77	1	0	50	1	
	Total	20,609	73,077	2,771	7,504	18,480	79,370	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols



**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2016	Upper	Jan	0	0	0	0	0	0
		Feb	172	144	0	0	0	0
		Mar	1,161	2,379	80	44	898	133
		Apr	643	1,174	102	282	0	0
		May	171	488	0	798	0	0
		Total	2,147	4,185	182	1,111	898	133
	Middle	Jan	0	0	0	0	0	0
		Feb	1,285	3,125	0	0	505	0
		Mar	4,221	12,946	58	276	7,651	25,665
		Apr	151	27	0	0	0	0
		May	0	0	0	0	0	0
		Total	5,657	16,099	58	276	8,157	25,665
	Lower	Jan	0	0	0	0	0	0
		Feb	402	1,106	0	0	21	47
		Mar	1,164	5,072	0	0	1,777	1,550
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	0
		Total	1,566	6,178	0	0	1,798	1,597
	Upper Tar	Jan	0	0	0	0	0	0
		Feb	371	236	0	0	0	0
		Mar	2,735	9,230	495	1,030	1,186	11,306
		Apr	1,711	8,026	559	1,776	223	0
		May	241	282	0	0	0	0
		Total	5,058	17,775	1,054	2,806	1,409	11,306
	Lower	Jan	0	0	0	0	0	0
		Feb	11	44	0	0	0	0
		Mar	30	138	0	0	0	62
Apr		0	0	0	0	0	0	
May		0	0	0	0	0	0	
Total		41	182	0	0	0	62	
Cape Fear	Jan	0	0	0	0	0	0	
	Feb	29	72	0	0	0	0	
	Mar	2,306	9,828	5,038	3,954	0	0	
	Apr	2,294	11,354	4,682	7,144	0	0	
	May	406	1,009	405	129	0	0	
	Total	5,035	22,264	10,125	11,228	0	0	
All Areas	Jan	0	0	0	0	0	0	
	Feb	2,270	4,728	0	0	526	47	
	Mar	11,617	39,594	5,617	5,304	11,513	38,715	
	Apr	4,799	20,581	5,343	9,203	223	0	
	May	818	1,779	405	927	0	0	
	Total	19,503	66,682	11,419	15,434	12,262	38,762	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2015	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	0	0	0	0	0	0
		Mar	2,204	5,281	28	16	1,562	172
		Apr	712	1,245	65	89	768	123
		May	41	154	0	0	0	0
		Total	2,957	5,281	94	104	2,330	295
	Middle Neuse River	Jan	0	0	0	0	0	0
		Feb	600	536	0	0	0	0
		Mar	3,259	10,237	0	17	5,299	9,882
		Apr	1,025	3,452	0	13	2,742	2,100
		May	0	0	0	0	0	0
		Total	4,883	14,225	0	30	8,040	11,981
	Lower Neuse River	Jan	0	0	0	0	0	0
		Feb	432	1,394	0	0	0	0
		Mar	95	286	0	0	48	0
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	0
		Total	527	1,680	0	0	48	0
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	134	335	0	0	0	0
		Mar	2,329	6,148	618	1,528	598	4,063
		Apr	1,183	2,842	363	188	266	720
		May	50	360	25	2,138	0	100
		Total	3,696	9,686	1,006	3,854	864	4,883
	Lower Tar/Pamlico	Jan	0	0	0	0	0	0
		Feb	0	0	0	0	0	0
		Mar	0	0	0	0	0	0
Apr		0	0	0	0	0	0	
May		0	0	0	0	0	0	
Total		0	0	0	0	0	0	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar	1,616	6,635	2,061	1,394	12	2	
	Apr	1,488	6,405	1,860	4,993	0	0	
	May	307	890	215	0	0	0	
	Total	3,411	13,930	4,136	6,387	12	2	
All Areas Combined	Jan	0	0	0	0	0	0	
	Feb	1,166	2,266	0	0	0	0	
	Mar	9,502	27,189	2,707	2,954	7,518	14,118	
	Apr	4,408	13,943	2,288	5,283	3,776	2,943	
	May	398	1,403	240	2,138	0	100	
	Total	15,475	44,801	5,235	10,375	11,293	17,161	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2014	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	0	0	0	0	0	0
		Mar	1,795	4,805	0	678	420	793
		Apr	629	686	0	0	0	0
		May	0	0	0	0	0	0
		Total	2,424	5,490	0	678	420	793
	Middle Neuse River	Jan	0	0	0	0	0	0
		Feb	1,633	2,918	134	162	1,078	2,298
		Mar	4,509	12,135	0	81	5,491	11,643
		Apr	570	1,150	0	0	74	60
		May	0	0	0	0	0	0
		Total	6,712	16,203	134	243	6,643	14,001
	Lower Neuse River	Jan	0	0	0	0	0	0
		Feb	2,920	8,703	0	0	6,097	12,322
		Mar	1,582	3,498	271	115	19,28	764
		Apr	222	260	0	0	0	0
		May	0	0	0	0	0	0
		Total	4,725	12,460	271	115	8,025	13,086
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	442	1,305	0	0	0	0
		Mar	1,150	2,653	108	1,164	117	782
		Apr	1,011	2,949	56	107	218	1,340
		May	0	0	0	0	0	0
		Total	2,603	6,907	164	1,270	335	2,123
	Lower Tar/Pamlico	Jan	0	0	0	0	0	0
		Feb	40	7	0	0	0	0
		Mar	41	145	0	0	0	0
Apr		0	0	0	0	0	0	
May		0	0	0	0	0	0	
Total		81	152	0	0	0	0	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar	552	1,354	368	0	0	0	
	Apr	1,898	9,161	5,400	9,719	0	0	
	May	553	1,914	1,680	1,306	0	0	
	Total	3,002	12,429	7,449	11,025	0	0	
All Areas Combined	Jan	0	0	0	0	0	0	
	Feb	5,035	12,933	134	162	7,175	14,620	
	Mar	9,629	24,589	747	2,037	7,956	13,982	
	Apr	4,330	14,205	5,457	9,826	292	1,400	
	May	553	1,914	1,680	1,306	0	0	
	Total	19,547	53,642	8,019	13,331	15,423	30,003	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2013	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	347	347	0	0	0	0
		Mar	3,350	6,311	39	173	1,448	1,828
		Apr	2,573	5,633	276	2,040	287	284
		May	570	1,473	0	570	0	0
		Total	6,840	13,763	315	2,784	1,735	2,111
	Middle Neuse River	Jan	0	0	0	0	0	0
		Feb	1,063	1,779	96	19	1,606	1,495
		Mar	5,881	14,474	337	28	8,791	10,212
		Apr	1,210	2,819	18	53	678	882
		May	0	0	0	0	0	0
		Total	8,154	19,072	451	99	11,075	12,589
	Lower Neuse River	Jan	0	0	0	0	0	0
		Feb	192	337	0	0	0	0
		Mar	619	464	619	0	0	19
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	0
		Total	811	801	619	0	0	19
	Upper Tar River	Jan	0	0	0	0	0	0
		Feb	514	619	68	68	54	27
		Mar	3,406	7,535	763	1,668	2,073	6,183
		Apr	1,866	4,814	1,050	4,416	294	923
		May	404	1,819	666	5,188	0	0
		Total	6,191	14,787	2,547	11,340	2,421	7,138
	Lower Tar/Pamlico	Jan	0	0	0	0	0	0
		Feb	0	0	0	0	0	0
		Mar	1,218	1,716	0	0	0	140
Apr		27	88	0	0	0	0	
May		0	0	0	0	0	0	
Total		1,245	1,804	0	0	0	140	
Cape Fear River	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar	6,551	26,153	5,628	20,085	0	135	
	Apr	4,789	25,123	11,867	11,477	15	9	
	May	741	2,833	2,320	840	0	0	
	Total	12,081	54,109	19,814	32,402	15	144	
All Areas Combined	Jan	0	0	0	0	0	0	
	Feb	2,116	3,082	164	87	1,660	1,522	
	Mar	21,025	56,654	7,385	21,954	12,311	18,517	
	Apr	10,465	38,476	13,210	17,986	1,274	2,103	
	May	1,716	6,125	2,986	6,598	0	0	
	Total	35,322	104,337	23,746	46,625	15,246	22,142	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.11 Estimated shad effort and catch<sup>1</sup> (in numbers) by river in the CSMA (continued).**

Year	River	Month	Shad genus		American Shad		Hickory Shad	
			Trips	Hours	Harvest	Released	Harvest	Released
2012	Upper Neuse River	Jan	0	0	0	0	0	0
		Feb	1,332	1,892	0	0	551	138
		Mar	3,432	7,041	804	124	2,649	2,314
		Apr	192	242	0	289	0	41
		May	95	80	0	0	0	0
		Total	5,052	9,255	804	413	3,209	2,492
	Middle Neuse River	Jan	135	250	0	0	0	0
		Feb	3,543	12,752	0	99	2,035	5,486
		Mar	6,880	18,777	43	0	4,425	19,997
		Apr	457	455	0	0	0	0
		May	0	0	0	0	0	0
		Total	11,015	32,234	43	99	6,460	25,483
	Lower Neuse River	Jan	142	47	0	0	0	0
		Feb	5,845	5,918	0	0	467	1,072
		Mar	3,641	5,038	178	196	733	872
		Apr	0	0	0	0	0	0
		May	0	0	0	0	0	0
		Total	9,629	11,003	178	196	1,200	1,944
	Upper Tar River	Jan	44	117	0	0	0	0
		Feb	1,115	2,351	61	716	38	1,644
		Mar	3,256	9,744	265	3,315	365	5,679
		Apr	343	1,096	661	311	0	0
		May	47	35	0	0	0	0
		Total	4,804	13,343	987	4,341	403	7,323
	Lower Tar/Pamlico	Jan	47	124	0	0	0	0
		Feb	220	251	0	0	0	0
		Mar	193	602	0	0	0	178
Apr		47	78	0	0	0	0	
May		0	0	0	0	0	0	
Total		507	1,056	0	0	0	178	
Cape Fear River <sup>4</sup>	Jan	0	0	0	0	0	0	
	Feb	0	0	0	0	0	0	
	Mar	0	0	0	0	0	0	
	Apr	0	0	0	0	0	0	
	May	0	0	0	0	0	0	
	Total	0	0	0	0	0	0	
All Areas Combined	Jan	368	539	0	0	0	0	
	Feb	12,055	23,165	61	814	3,092	8,341	
	Mar	17,402	41,201	1,290	3,635	8,172	29,039	
	Apr	1,040	1,872	661	600	0	41	
	May	142	115	0	0	0	0	
	Total	31,007	66,892	2,012	5,049	11,264	37,421	

<sup>1</sup>Catch of American Shad and Hickory Shad were calculated by assigning a ratio of observed shad by species to reported miscellaneous catch. PSEs are not available for shad.

<sup>2</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols

**Table IV.12 Estimated average Striped Bass catch (harvest + discard) per unit effort in number from the CSMA by month.**

Year	Month	Harvests per Trip	Discards per Trip	Total Caught per Trip
2022 <sup>1</sup>	January	0	0.23	0.23
	February	0	0.34	0.34
	March	0	0.10	0.10
	April	0	0.32	0.32
	May	0	0.24	0.24
	June	0	0.46	0.46
	July	0	0.22	0.22
	August	0	0.43	0.43
	September	0	0.15	0.15
	October	0	0.06	0.06
	November	0	0.27	0.27
	December	0	0.35	0.35
	Annual	0	0.26	0.26
2021 <sup>1</sup>	January	0	0.34	0.34
	February	0	0.36	0.36
	March	0	0.04	0.04
	April	0	0.40	0.40
	May	0	0.29	0.29
	June	0	0.03	0.03
	July	0	0.34	0.34
	August	0	0.24	0.24
	September	0	0.12	0.12
	October	0	0.19	0.19
	November	0	0.13	0.13
	December	0	0.29	0.29
	Annual	0	0.22	0.22
2020 <sup>1</sup>	January	0	0.32	0.32
	February	0	0.14	0.14
	March <sup>2</sup>	-	0.23	0.23
	April <sup>2</sup>	-	-	-
	May <sup>2</sup>	-	-	-
	June	0	0.22	0.22
	July	0	0.27	0.27
	August	0	0.35	0.35
	September	0	0.14	0.14
	October	0	0.09	0.09
	November	0	0.15	0.15
	December	0	0.21	0.21
	Annual	0	0.21	0.21

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.12 Estimated average Striped Bass catch (harvest + discard) per unit effort in number from the CSMA by month (continued).**

Year	Month	Harvests per Trip	Discards per Trip	Total Caught per Trip
2019	January	0.11	1.01	1.12
	February	0.03	0.25	0.28
	March	0.01	0.37	0.38
	April	0	0.10	0.10
	May	0	0.32	0.32
	June	0	0.42	0.42
	July	0	0.17	0.17
	August	0	0.26	0.26
	September	0	0.34	0.34
	October	0	0.12	0.12
	November	0	1.18	1.18
	December	0	0.23	0.23
	Annual		0.01	0.33
2018	January	0.13	1.65	1.78
	February	0.06	0.24	0.31
	March	0.05	0.59	0.64
	April	0.06	0.19	0.25
	May	0	0.66	0.66
	June	0	0.56	0.56
	July	0	0.57	0.57
	August	0	0.61	0.61
	September	0	0.17	0.17
	October	0	0.35	0.35
	November	0.03	0.64	0.67
	December	0.08	1.66	1.73
	Annual		0.03	0.51
2017	January	0.01	0.98	1.00
	February	0.07	0.92	0.98
	March	0.08	0.86	0.94
	April	0.08	0.91	0.99
	May	0	1.00	1.00
	June	0	1.00	1.00
	July	0	0.97	0.97
	August	0	1.00	1.00
	September	0	0.99	1.00
	October	0.12	0.85	0.97
	November	0.13	0.81	0.95
	December	0.19	0.78	0.98
	Annual		0.05	0.93

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.12 Estimated average Striped Bass catch (harvest + discard) per unit effort in number from the CSMA by month (continued).**

Year	Month	Harvests per Trip	Discards per Trip	Total Caught per Trip
2016	January	0.27	2.34	2.61
	February	0.05	0.39	0.44
	March	0.03	0.34	0.36
	April	0.15	0.46	0.61
	May	0	0.39	0.39
	June	0	0.26	0.26
	July	0	0.31	0.31
	August	0	0.48	0.48
	September	0	0.65	0.65
	October	0.03	1.09	1.12
	November	0.03	0.92	0.95
	December	0.16	2.67	2.82
	Annual	0.06	0.65	0.71
2015	January	0.14	0.67	0.80
	February	0.18	0.54	0.72
	March	0.04	0.06	0.10
	April	0.03	0.10	0.13
	May	0	0.04	0.04
	June	0	0.13	0.13
	July	0	0.52	0.52
	August	0	0.04	0.04
	September	0	0.49	0.49
	October	0.04	0.58	0.62
	November	0.08	0.65	0.74
	December	0.12	1.12	1.24
	Annual	0.04	0.29	0.32
2014	January	0.14	0.07	0.21
	February	0.05	0.15	0.20
	March	0.05	0.25	0.30
	April	0.04	0.23	0.27
	May	0	0.15	0.15
	June	0	0.17	0.17
	July	0	0.07	0.07
	August	0	0.47	0.47
	September	0	0.82	0.82
	October	0.02	0.44	0.46
	November	0.11	0.95	1.06
	December	0.05	0.64	0.69
	Annual	0.04	0.32	0.36

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.



**Table IV.12 Estimated average Striped Bass catch (harvest + discard) per unit effort in number from the CSMA by month (continued).**

Year	Month	Harvests per Trip	Discards per Trip	Total Caught per Trip
2013	January	0.13	0.48	0.61
	February	0.10	0.45	0.55
	March	0.02	0.06	0.08
	April	0.04	0.13	0.16
	May	0	0.15	0.15
	June	0	0.73	0.73
	July	0	0.27	0.27
	August	0	0.42	0.42
	September	0	0.76	0.76
	October	0.19	0.31	0.50
	November	0.07	0.18	0.26
	December	0.07	0.21	0.28
	Annual	0.04	0.24	0.28
2012	January	0.16	0.61	0.77
	February	0.05	0.34	0.39
	March	0.02	0.10	0.12
	April	0.02	0.11	0.13
	May	<0.01	0.37	0.37
	June	0.01	0.18	0.18
	July	0	2.21	2.21
	August	0	0.58	0.58
	September	<0.01	0.59	0.59
	October	0.09	0.26	0.35
	November	0.09	0.63	0.72
	December	0.08	0.65	0.73
	Annual	0.04	0.39	0.43
2011	January	0.09	0.23	0.32
	February	0.09	0.42	0.51
	March	0.02	0.19	0.21
	April	0.04	0.43	0.47
	May	0	0.23	0.23
	June	0	0.59	0.59
	July	0	0.40	0.40
	August	0	0.21	0.21
	September	0	1.10	1.10
	October	0.09	0.71	0.80
	November	0.14	1.30	1.43
	December	0.21	0.93	1.14
	Annual	0.06	0.53	0.60

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.12 Estimated average Striped Bass catch (harvest + discard) per unit effort in number from the CSMA by month (continued).**

Year	Month	Harvests per Trip	Discards per Trip	Total Caught per Trip
2010	January	0.17	0.62	0.79
	February	0.50	1.40	1.90
	March	0.15	0.45	0.60
	April	0.06	0.15	0.21
	May	0.04	0.03	0.06
	June	0	0.17	0.17
	July	0	0.13	0.13
	August	0	0.26	0.26
	September	0	0.02	0.02
	October	0.03	0.33	0.36
	November	0.04	0.27	0.31
	December	0.17	0.70	0.86
	Annual	0.05	0.21	0.26
2009	January	0.04	0.20	0.24
	February	0.03	0.29	0.32
	March	0.03	0.09	0.12
	April	0.01	0.05	0.05
	May	0	0.15	0.15
	June	0	0.13	0.13
	July	0	0.03	0.03
	August	0	0.21	0.21
	September	0	0.55	0.55
	October	0.06	0.12	0.18
	November	0.01	0.06	0.07
	December	0.09	0.26	0.35
	Annual	0.02	0.15	0.17
2008	January	0.07	1.59	1.66
	February	0.04	0.62	0.66
	March	<0.01	0.07	0.07
	April	<0.01	0.12	0.12
	May	0.01	0.40	0.41
	June	0.01	0.08	0.09
	July	0	0.95	0.95
	August	0	0.18	0.18
	September	0	0.24	0.24
	October	0.02	0.22	0.24
	November	0.04	0.37	0.40
	December	0.06	0.12	0.18
	Annual	0.02	0.34	0.36

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.12 Estimated average Striped Bass catch (harvest + discard) per unit effort in number from the CSMA by month (continued).**

Year	Month	Harvests per Trip	Discards per Trip	Total Caught per Trip
2007	January	0.28	0.61	0.89
	February	0.08	2.35	2.43
	March	0.10	0.51	0.61
	April	0.02	0.22	0.24
	May	0.02	0.43	0.45
	June	0.04	0.11	0.14
	July	0.06	0.30	0.36
	August	0.07	0.28	0.35
	September	0.02	0.08	0.10
	October	0.08	0.21	0.29
	November	0.01	0.26	0.27
	December	0.03	0.32	0.35
	Annual		0.05	0.36

<sup>1</sup>Harvest of Striped Bass was prohibited in the CSMA, and no catch information was collected during this time.

<sup>2</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished.**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	0	0	0	0	0	0	0	0
Bertie	0	0	0	0	0	0	0	0
Bladen	0	0	0	0	0	0	1	0.97
Brunswick	0	0	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	1	0.78	0	0	0	0	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	0	0	1	0.84	0	0	0	0
Cumberland	0	0	0	0	0	0	0	0
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	2	1.68	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	1	0.78	1	0.84	1	1.33	2	1.94
Durham	0	0	1	0.84	1	1.33	0	0
Edgecombe	0	0	0	0	0	0	0	0
Forsyth	0	0	0	0	0	0	0	0
Franklin	1	0.78	0	0	0	0	0	0
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	0	0	0	0	0	0
Greene	0	0	1	0.84	0	0	0	0
Guilford	0	0	0	0	0	0	0	0
Halifax	0	0	0	0	0	0	0	0
Harnett	0	0	0	0	1	1.33	2	1.94
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	0	0	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	0	0

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	21	16.28	28	23.53	22	29.33	12	11.65
Jones	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	1	0.97
Lenoir	1	0.78	2	1.68	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	0	0
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	0	0	1	0.84	0	0	0	0
New Hanover	0	0	0	0	0	0	0	0
Northampton	0	0	0	0	0	0	0	0
Onslow	0	0	0	0	0	0	0	0
Orange	0	0	0	0	5	6.67	0	0
Pamlico	0	0	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0	0	0
Pender	0	0	0	0	0	0	0	0
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	2	1.55	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	1	0.78	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	9	6.98	5	4.20	8	10.67	2	1.94
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	27	20.93	45	37.82	11	14.67	42	40.78
Warren	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	0	0
Wayne	64	49.61	31	26.05	25	33.33	41	39.81
Wilkes	0	0	0	0	0	0	0	0
Wilson	1	0.78	1	0.84	1	1.33	0	0
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>129</b>	<b>100.00</b>	<b>119</b>	<b>100.00</b>	<b>75</b>	<b>100.00</b>	<b>103</b>	<b>100.00</b>

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	0	0	1	1.39	0	0	0	0
Bertie	0	0	0	0	0	0	0	0
Bladen	0	0	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	1	1.39	0	0	0	0
Carteret	0	0	0	0	0	0	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	0	0	0	0	0	0	0	0
Cumberland	0	0	2	2.78	1	1.03	1	0.73
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	0	0	0	0	1	1.03	3	2.19
Durham	0	0	0	0	1	1.03	0	0
Edgecombe	0	0	0	0	0	0	0	0
Forsyth	0	0	0	0	0	0	0	0
Franklin	1	1.05	0	0	0	0	3	2.19
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	0	0	0	0	1	0.73
Greene	0	0	0	0	0	0	0	0
Guilford	0	0	0	0	0	0	0	0
Halifax	0	0	0	0	0	0	1	0.73
Harnett	0	0	1	1.39	0	0	0	0
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	0	0	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	1	0.73

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	23	24.21	13	18.06	19	19.59	25	18.25
Jones	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0
Lenoir	0	0	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	0	0
Mecklenburg	0	0	0	0	0	0	1	0.73
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	0	0	0	0	0	0	0	0
New Hanover	0	0	0	0	0	0	1	0.73
Northampton	0	0	0	0	0	0	0	0
Onslow	0	0	0	0	0	0	2	1.46
Orange	1	1.05	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0	0	0
Pender	0	0	0	0	0	0	0	0
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	0	0	0	0	1	1.03	0	0
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	1	1.03	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	3	3.16	1	1.39	0	0	2	1.46
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0



**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	33	34.74	18	25.00	43	44.33	45	32.85
Warren	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	0	0
Wayne	33	34.74	35	48.61	30	30.93	49	35.77
Wilkes	0	0	0	0	0	0	0	0
Wilson	1	1.05	0	0	0	0	2	1.46
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>95</b>	<b>100.00</b>	<b>72</b>	<b>100.00</b>	<b>97</b>	<b>100.00</b>	<b>137</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>						
Alamance	0	0	0	0	0	0
Alexander	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0
Anson	0	0	0	0	0	0
Ashe	0	0	0	0	0	0
Avery	0	0	0	0	0	0
Beaufort	0	0	0	0	0	0
Bertie	0	0	0	0	0	0
Bladen	0	0	0	0	0	0
Brunswick	1	0.88	0	0	0	0
Buncombe	0	0	0	0	0	0
Burke	2	1.77	0	0	0	0
Cabarrus	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0
Camden	0	0	0	0	0	0
Carteret	0	0	1	0.41	0	0
Caswell	0	0	2	0.83	0	0
Catawba	0	0	0	0	0	0
Chatham	1	0.88	0	0	0	0
Cherokee	0	0	0	0	0	0
Chowan	0	0	0	0	0	0
Clay	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0
Columbus	0	0	0	0	0	0
Craven	0	0	0	0	0	0
Cumberland	0	0	1	0.41	0	0
Currituck	0	0	0	0	0	0
Dare	0	0	0	0	0	0
Davidson	0	0	0	0	0	0
Davie	0	0	0	0	0	0
Duplin	0	0	1	0.41	1	0.23
Durham	0	0	2	0.83	0	0
Edgecombe	0	0	0	0	32	7.44
Forsyth	0	0	0	0	0	0
Franklin	0	0	2	0.83	9	2.09
Gaston	0	0	0	0	0	0
Gates	0	0	0	0	0	0
Graham	1	0.88	0	0	0	0
Granville	0	0	1	0.41	0	0
Greene	0	0	0	0	0	0
Guilford	2	1.77	0	0	0	0
Halifax	0	0	0	0	0	0
Harnett	0	0	4	1.66	9	2.09
Haywood	0	0	0	0	0	0
Henderson	0	0	0	0	0	0
Hertford	0	0	0	0	0	0
Hoke	0	0	0	0	0	0
Hyde	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>						
Iredell	0	0	0	0	0	0
Jackson	0	0	0	0	0	0
Johnston	23	20.35	41	17.01	135	31.40
Jones	0	0	0	0	0	0
Lee	2	1.77	1	0.41	3	0.70
Lenoir	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0
McDowell	0	0	0	0	0	0
Macon	0	0	0	0	0	0
Madison	0	0	0	0	0	0
Martin	0	0	0	0	0	0
Mecklenburg	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0
Moore	0	0	0	0	0	0
Nash	0	0	1	0.41	1	0.23
New Hanover	0	0	0	0	0	0
Northampton	0	0	0	0	0	0
Onslow	0	0	0	0	0	0
Orange	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0
Pender	0	0	0	0	0	0
Perquimans	0	0	0	0	0	0
Person	0	0	0	0	0	0
Pitt	0	0	1	0.41	0	0
Polk	0	0	0	0	0	0
Randolph	0	0	0	0	0	0
Richmond	0	0	0	0	0	0
Robeson	0	0	0	0	2	0.47
Rockingham	0	0	0	0	0	0
Rowan	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0
Sampson	2	1.77	5	2.07	6	1.40
Scotland	0	0	0	0	0	0
Stanly	0	0	0	0	0	0
Stokes	0	0	0	0	0	0
Surry	0	0	0	0	0	0
Swain	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0
Union	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Upper Neuse River</b>						
Vance	0	0	0	0	0	0
Wake	39	34.51	118	48.96	82	19.07
Warren	0	0	0	0	0	0
Washington	0	0	0	0	0	0
Watauga	0	0	0	0	0	0
Wayne	40	35.40	60	24.90	148	34.42
Wilkes	0	0	0	0	0	0
Wilson	0	0	0	0	2	0.47
Yadkin	0	0	0	0	0	0
Yancey	0	0	0	0	0	0
Total	113	100.00	241	100.00	430	100.00

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	0	0	1	0.61	2	1.63	3	1.05
Bertie	0	0	0	0	0	0	0	0
Bladen	0	0	0	0	1	0.81	0	0
Brunswick	0	0	0	0	5	4.07	2	0.70
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	11	4.12	1	0.61	0	0	0	0
Caswell	0	0	0	0	0	0	1	0.35
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	1	0.61	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	47	17.60	11	6.75	8	6.50	54	18.82
Cumberland	0	0	0	0	0	0	1	0.35
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	6	2.25	8	4.91	4	3.25	15	5.23
Durham	0	0	0	0	0	0	0	0
Edgecombe	3	1.12	0	0	1	0.81	1	0.35
Forsyth	0	0	0	0	0	0	0	0
Franklin	0	0	2	1.23	0	0	0	0
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	2	1.63	0	0
Graham	0	0	0	0	0	0	0	0
Granville	1	0.37	0	0	0	0	0	0
Greene	43	16.10	20	12.27	16	13.01	12	4.18
Guilford	0	0	0	0	0	0	0	0.0
Halifax	1	0.37	0	0	0	0	0	0
Harnett	2	0.75	0	0	1	0.81	2	0.70
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	0	0	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	3	1.12	2	1.23	3	2.44	13	4.53
Jones	6	2.25	2	1.23	1	0.81	13	4.53
Lee	0	0	0	0	1	0.81	0	0
Lenoir	68	25.47	44	26.99	38	30.89	76	26.48
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	1	0.35
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	0	0	0	0	0	0	0	0
New Hanover	0	0	0	0	0	0	0	0
Northampton	0	0	0	0	0	0	0	0
Onslow	6	2.25	8	4.91	3	2.44	6	2.09
Orange	0	0	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0	3	1.05
Pasquotank	0	0	1	0.61	0	0	1	0.35
Pender	1	0.37	0	0	0	0	0	0
Perquimans	0	0	1	0.61	0	0	0	0
Person	0	0	0	0	0	0	1	0.35
Pitt	44	16.48	53	32.52	24	19.50	53	18.47
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	1	0.37	2	1.23	4	3.25	5	1.74
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>								
Vance	1	0.37	0	0	0	0	0	0
Wake	4	1.50	2	1.23	0	0	2	0.70
Warren	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	0	0
Wayne	19	7.12	4	2.45	9	7.32	22	7.67
Wilkes	0	0	0	0	0	0	0	0
Wilson	0	0	0	0	0	0	0	0
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
Total	267	100.00	163	100.00	123	100.00	287	100.00

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	4	1.93	3	1.69	1	0.72	1	0.49
Bertie	0	0	0	0	0	0	0	0
Bladen	0	0	0	0	0	0	0	0
Brunswick	5	2.42	2	1.13	1	0.72	2	0.99
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	0	0	0	0	0	0	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	1	0.48	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	21	10.14	24	13.56	13	9.35	31	15.27
Cumberland	0	0	0	0	0	0	1	0.49
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	1	0.48	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	10	4.83	6	3.39	3	2.16	5	2.46
Durham	0	0	0	0	0	0	0	0
Edgecombe	2	0.97	1	0.56	1	0.72	0	0
Forsyth	0	0	1	0.56	0	0	0	0
Franklin	0	0	0	0	0	0	0	0
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	1	0.48	0	0	0	0	0	0
Greene	11	5.31	21	11.86	15	10.79	34	16.75
Guilford	1	0.48	1	0.56	0	0	0	0
Halifax	0	0	0	0	0	0	0	0
Harnett	1	0.48	1	0.56	1	0.72	1	0.49
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	0	0	0	0
Hoke	1	0.48	0	0	0	0	0	0
Hyde	0	0	1	0.56	0	0	0	0



**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	3	1.45	3	1.69	3	2.16	4	1.97
Jones	6	2.90	4	2.26	5	3.60	6	2.96
Lee	0	0	0	0	0	0	0	0
Lenoir	51	24.64	37	20.90	41	29.50	58	28.57
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	0	0
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	2	0.97	2	1.13	1	0.72	0	0
New Hanover	0	0	0	0	0	0	0	0
Northampton	0	0	0	0	0	0	0	0
Onslow	8	3.86	2	1.13	1	0.72	4	1.97
Orange	0	0	0	0	0	0	0	0
Pamlico	1	0.48	0	0	0	0.0	0	0
Pasquotank	0	0	0	0	0	0	0	0
Pender	1	0.48	0	0	0	0	0	0
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	45	21.74	39	22.03	39	28.06	38	18.72
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	1	0.48	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	0	0	1	0.72	0	0
Scotland	1	0.48	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	1	0.49
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	4	1.93	9	5.08	0	0	1	0.49
Warren	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	1	0.49
Watauga	0	0	0	0	0	0	0	0
Wayne	25	12.08	18	10.17	11	7.91	14	6.90
Wilkes	0	0	0	0	0	0	0	0
Wilson	0	0	2	1.13	2	1.44	1	0.49
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>207</b>	<b>100.00</b>	<b>177</b>	<b>100.00</b>	<b>139</b>	<b>100.00</b>	<b>203</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>						
Alamance	0	0	0	0	0	0
Alexander	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0
Anson	0	0	0	0	0	0
Ashe	0	0	0	0	0	0
Avery	0	0	0	0	0	0
Beaufort	3	2.01	2	0.93	3	0.75
Bertie	0	0	0	0	0	0
Bladen	0	0	0	0	0	0
Brunswick	1	0.67	6	2.79	14	3.51
Buncombe	0	0	0	0	0	0
Burke	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0
Camden	0	0	0	0	0	0
Carteret	0	0	0	0	0	0
Caswell	0	0	0	0	0	0
Catawba	0	0	0	0	0	0
Chatham	0	0	0	0	8	2.01
Cherokee	0	0	0	0	0	0
Chowan	0	0	0	0	0	0
Clay	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0
Columbus	0	0	0	0	0	0
Craven	6	4.03	22	10.23	31	7.77
Cumberland	0	0	1	0.47	7	1.75
Currituck	0	0	0	0	0	0
Dare	0	0	0	0	0	0
Davidson	0	0	0	0	1	0.25
Davie	0	0	0	0	0	0
Duplin	3	2.01	5	2.33	10	2.51
Durham	0	0	0	0	0	0
Edgecombe	0	0	0	0	0	0
Forsyth	0	0	0	0	0	0
Franklin	0	0	0	0	0	0
Gaston	0	0	0	0	0	0
Gates	0	0	0	0	0	0
Graham	0	0	0	0	0	0
Granville	0	0	0	0	0	0
Greene	13	8.72	25	11.63	82	20.55
Guilford	0	0	1	0.47	2	0.50
Halifax	0	0	0	0	0	0
Harnett	0	0	0	0	2	0.50
Haywood	0	0	0	0	0	0
Henderson	0	0	0	0	0	0
Hertford	0	0	0	0	0	0
Hoke	0	0	0	0	0	0
Hyde	0	0	0	0	0	0

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>						
Iredell	0	0	0	0	0	0
Jackson	0	0	0	0	0	0
Johnston	3	2.01	0	0	11	2.76
Jones	8	5.37	9	4.19	2	0.50
Lee	0	0	0	0	0	0
Lenoir	60	40.27	87	40.47	92	23.06
Lincoln	0	0	0	0	0	0
McDowell	0	0	0	0	0	0
Macon	0	0	0	0	0	0
Madison	0	0	0	0	0	0
Martin	0	0	1	0.47	0	0
Mecklenburg	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0
Moore	0	0	0	0	0	0
Nash	0	0	0	0	3	0.75
New Hanover	0	0	2	0.93	0	0
Northampton	0	0	0	0	0	0
Onslow	1	0.67	2	0.93	4	1.00
Orange	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0
Pender	0	0	1	0.47	0	0
Perquimans	0	0	0	0	0	0
Person	0	0	0	0	0	0
Pitt	36	24.16	35	16.28	64	16.04
Polk	0	0	0	0	0	0
Randolph	0	0	0	0	0	0
Richmond	0	0	0	0	0	0
Robeson	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0
Rowan	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0
Sampson	0	0	0	0	0	0
Scotland	0	0	0	0	0	0
Stanly	0	0	0	0	0	0
Stokes	0	0	0	0	0	0
Surry	0	0	0	0	0	0
Swain	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0
Union	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Middle Neuse River</b>						
Vance	0	0	0	0	0	0
Wake	0	0	0	0	4	1.00
Warren	0	0	0	0	0	0
Washington	0	0	0	0	0	0
Watauga	0	0	0	0	0	0
Wayne	15	10.10	14	6.51	58	14.54
Wilkes	0	0	0	0	0	0
Wilson	0	0	2	0.93	1	0.25
Yadkin	0	0	0	0	0	0
Yancey	0	0	0	0	0	0
<b>Total</b>	<b>149</b>	<b>100.00</b>	<b>215</b>	<b>100.00</b>	<b>399</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>								
Alamance	0	0	0	0	1	0.17	2	0.23
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	3	0.35	5	0.72	2	0.35	15	1.72
Bertie	0	0	1	0.14	0	0	0	0
Bladen	0	0	0	0	0	0	0	0
Brunswick	2	0.23	2	0.29	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	1	0.14	1	0.17	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	22	2.54	15	2.17	6	1.05	16	1.84
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	1	0.11
Chatham	0	0	2	0.29	1	0.17	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	3	0.35	7	1.01	1	0.17	5	0.57
Craven	311	35.87	260	37.57	227	39.62	370	42.53
Cumberland	6	0.69	1	0.14	2	0.35	5	0.57
Currituck	0	0	0	0	0	0	1	0.11
Dare	1	0.12	0	0	0	0	0	0
Davidson	1	0.12	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	30	3.46	19	2.75	17	2.97	17	1.95
Durham	0	0	0	0	0	0	1	0.11
Edgecombe	0	0	1	0.14	2	0.35	1	0.11
Forsyth	1	0.12	1	0.14	1	0.17	0	0
Franklin	0	0	0	0	0	0	2	0.23
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	1	0.12	0	0	0	0	1	0.11
Greene	18	2.08	12	1.73	11	1.92	16	1.84
Guilford	2	0.23	0	0	0	0	2	0.23
Halifax	0	0	0	0	0	0	0	0
Harnett	5	0.58	0	0	1	0.17	1	0.11
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	0	0	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	0	0

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	19	2.19	9	1.30	11	1.92	8	0.92
Jones	67	7.73	55	7.95	35	6.11	62	7.13
Lee	1	0.12	0	0	0	0	0	0
Lenoir	83	9.57	59	8.53	55	9.60	61	7.01
Lincoln	0	0	0	0	1	0.17	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	1	0.12	0	0	1	0.17	2	0.23
Mecklenburg	1	0.12	0	0	0	0	1	0.11
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	1	0.17	1	0.11
Nash	1	0.12	0	0	0	0	2	0.23
New Hanover	3	0.35	0	0	0	0	0	0
Northampton	1	0.12	0	0	0	0	0	0
Onslow	120	13.84	122	17.63	82	14.31	114	13.10
Orange	0	0	0	0	1	0.17	0	0
Pamlico	41	4.73	32	4.62	31	5.41	42	4.83
Pasquotank	0	0	0	0	0	0	0	0
Pender	2	0.23	1	0.14	2	0.35	2	0.23
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	49	5.65	43	6.21	36	6.28	59	6.78
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	4	0.46	3	0.43	3	0.52	5	0.57
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	1	0.12	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	9	1.04	9	1.30	5	0.87	9	1.03
Warren	0	0	0	0	0	0	0	0
Washington	1	0.12	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	0	0
Wayne	56	6.46	28	4.05	32	5.58	41	4.71
Wilkes	0	0	0	0	0	0	0	0
Wilson	1	0.12	4	0.58	3	0.52	5	0.57
Yadkin	0	0	0	0	1	0.17	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>867</b>	<b>100.00</b>	<b>692</b>	<b>100.00</b>	<b>573</b>	<b>100.00</b>	<b>870</b>	<b>100.00</b>



**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	1	0.12	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	0	0	5	0.58	4	0.73	4	0.76
Bertie	0	0	0	0	0	0	0	0
Bladen	0	0	0	0	0	0	0	0
Brunswick	1	0.16	1	0.12	1	0.18	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	1	0.16	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	13	2.12	21	2.45	13	2.37	12	2.27
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	1	0.16	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	4	0.65	11	1.28	5	0.91	4	0.76
Craven	252	41.04	339	39.56	225	40.98	233	44.05
Cumberland	2	0.33	0	0	0	0	2	0.38
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	1	0.12	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	27	4.40	22	2.57	12	2.19	9	1.70
Durham	0	0	0	0	0	0	0	0
Edgecombe	2	0.33	1	0.12	0	0	0	0
Forsyth	0	0	0	0	0	0	3	0.57
Franklin	2	0.33	0	0	0	0	0	0
Gaston	0	0	2	0.23	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	2	0.23	0	0	0	0
Greene	3	0.49	21	2.45	12	2.19	7	1.32
Guilford	1	0.16	0	0	0	0	2	0.38
Halifax	0	0	1	0.12	0	0	0	0
Harnett	1	0.16	2	0.23	1	0.18	1	0.19
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	1	0.18	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	7	1.14	10	1.17	2	0.36	6	1.13
Jones	60	9.77	56	6.53	42	7.65	37	6.99
Lee	0	0	0	0	0	0	0	0
Lenoir	29	4.72	58	6.77	37	6.74	40	7.56
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	0	0	2	0.23	0	0	1	0.19
Mecklenburg	2	0.33	0	0	0	0	1	0.19
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	1	0.12	1	0.18	0	0
Nash	0	0	0	0	0	0	1	0.19
New Hanover	0	0	5	0.58	3	0.55	2	0.38
Northampton	0	0	0	0	0	0	0	0
Onslow	114	18.57	146	17.04	94	17.12	74	13.99
Orange	0	0	1	0.1	0	0	0	0
Pamlico	27	4.40	47	5.48	38	6.92	32	6.05
Pasquotank	0	0	0	0	0	0	0	0
Pender	3	0.5	4	0.47	3	0.55	2	0.38
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	32	5.21	54	6.30	28	5.10	28	5.29
Polk	0	0	0	0	0	0	0	0
Randolph	3	0.49	0	0	0	0	1	0.19
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	1	0.12	0	0	0	0
Rockingham	0	0	0	0	0	0	1	0.19
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	0	0	0	0	2	0.38
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	1	0.18	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	3	0.49	2	0.23	4	0.73	3	0.57
Warren	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	2	0.38
Wayne	24	3.91	39	4.55	16	2.91	16	3.02
Wilkes	0	0	0	0	0	0	0	0
Wilson	0	0	1	0.12	6	1.09	3	0.57
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>614</b>	<b>100.00</b>	<b>857</b>	<b>100.00</b>	<b>549</b>	<b>100.00</b>	<b>529</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>						
Alamance	0	0	1	0.17	0	0
Alexander	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0
Anson	0	0	0	0	0	0
Ashe	0	0	0	0	0	0
Avery	0	0	0	0	0	0
Beaufort	2	0.47	5	0.84	4	0.33
Bertie	0	0	0	0	0	0
Bladen	0	0	0	0	0	0
Brunswick	2	0.47	1	0.17	10	0.83
Buncombe	0	0	0	0	0	0
Burke	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0
Camden	0	0	0	0	0	0
Carteret	14	3.30	10	1.68	34	2.81
Caswell	0	0	0	0	0	0
Catawba	0	0.0	1	0.17	0	0
Chatham	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0
Chowan	0	0	0	0	0	0
Clay	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0
Columbus	1	0.24	1	0.17	3	0.25
Craven	200	47.17	286	48.15	516	42.57
Cumberland	1	0.24	4	0.67	1	0.08
Currituck	0	0	0	0	0	0
Dare	0	0	0	0	0	0
Davidson	1	0.24	1	0.17	1	0.08
Davie	0	0	0	0	0	0
Duplin	3	0.71	8	1.35	11	0.91
Durham	0	0	1	0.17	9	0.74
Edgecombe	2	0.47	1	0.17	1	0.08
Forsyth	0	0	2	0.34	0	0
Franklin	0	0	0	0	3	0.25
Gaston	0	0	0	0	0	0
Gates	0	0	0	0	0	0
Graham	0	0	0	0	0	0
Granville	0	0	0	0	0	0
Greene	10	2.36	10	1.68	23	1.90
Guilford	0	0	0	0	5	0.41
Halifax	0	0	0	0	0	0
Harnett	2	0.47	1	0.17	0	0
Haywood	0	0	0	0	0	0
Henderson	0	0	0	0	0	0
Hertford	0	0	0	0	0	0
Hoke	0	0	0	0	0	0
Hyde	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>						
Iredell	0	0	0	0	1	0.08
Jackson	0	0	0	0	0	0
Johnston	10	2.36	5	0.84	18	1.49
Jones	23	5.42	30	5.05	47	3.88
Lee	0	0	0	0	0	0
Lenoir	31	7.31	41	6.90	99	8.17
Lincoln	0	0	0	0	0	0
McDowell	0	0	0	0	0	0
Macon	0	0	0	0	0	0
Madison	0	0	0	0	0	0
Martin	0	0	1	0.17	0	0
Mecklenburg	1	0.24	0	0	1	0.08
Mitchell	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0
Moore	1	0.24	0	0	4	0.33
Nash	0	0	0	0	0	0
New Hanover	0	0	0	0	5	0.41
Northampton	0	0	0	0	0	0
Onslow	75	17.69	83	13.97	175	14.44
Orange	1	0.24	1	0.17	0	0
Pamlico	18	4.25	30	5.05	118	9.74
Pasquotank	0	0	0	0	0	0
Pender	0	0	0	0	14	1.16
Perquimans	0	0	0	0	0	0
Person	0	0	0	0	0	0
Pitt	9	2.12	22	3.70	45	3.71
Polk	0	0	0	0	0	0
Randolph	0	0	0	0	1	0.08
Richmond	0	0	0	0	1	0.08
Robeson	0	0	1	0.17	0	0
Rockingham	0	0	0	0	0	0
Rowan	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0
Sampson	1	0.24	0	0	1	0.08
Scotland	0	0	0	0	0	0
Stanly	0	0	0	0	0	0
Stokes	0	0	0	0	0	0
Surry	0	0	0	0	0	0
Swain	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0
Union	0	0	0	0	3	0.25

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Lower Neuse River</b>						
Vance	0	0	0	0	0	0
Wake	4	0.94	11	1.85	12	0.99
Warren	1	0.24	0	0	0	0
Washington	0	0	0	0	0	0
Watauga	0	0	2	0.34	0	0
Wayne	6	1.42	27	4.55	41	3.38
Wilkes	0	0	0	0	0	0
Wilson	5	1.18	7	1.18	5	0.41
Yadkin	0	0	0	0	0	0
Yancey	0	0	0	0	0	0
Total	424	100.00	594	100.00	1,212	100.00

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Tar River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	3	1.42	1	0.34	1	1.39	2	1.00
Bertie	1	0.47	1	0.34	0	0	1	0.50
Bladen	0	0	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	0	0	0	0	0	0	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	1	0.34	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	0	0	0	0	0	0	0	0
Cumberland	0	0	0	0	0	0	2	1.00
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	0	0	2	0.68	0	0	0	0
Durham	2	0.95	1	0.34	0	0	0	0
Edgecombe	74	35.07	117	39.66	26	36.11	74	37.00
Forsyth	0	0	0	0	0	0	0	0
Franklin	3	1.42	2	0.68	0	0	6	3.00
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	0	0	0	0	1	0.50
Greene	2	0.95	5	1.69	0	0	1	0.50
Guilford	3	1.42	1	0.34	0	0	1	0.50
Halifax	0	0	4	1.36	0	0	1	0.50
Harnett	0	0	0	0	0	0	0	0
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	1	0.47	0	0	0	0	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	0	0

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Tar River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	3	1.42	5	1.69	1	1.39	4	2.00
Jones	1	0.47	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0
Lenoir	0	0	1	0.34	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	1	1.39	3	1.50
Martin	0	0	1	0.34	0	0	0	0
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	49	23.22	65	22.03	14	19.44	41	20.50
New Hanover	0	0	0	0	0	0	0	0
Northampton	2	0.95	1	0.34	0	0	0	0
Onslow	0	0	0	0	0	0	0	0
Orange	0	0	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0	0	0
Pender	0	0	1	0.34	0	0	1	0.50
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	47	22.270	50	16.95	25	34.72	33	16.50
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	0	0	0	0	0	0
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0



**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Tar River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	10	4.74	13	4.41	1	1.39	12	6.00
Warren	0	0	0	0	0	0	0	0
Washington	1	0.47	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	0	0
Wayne	1	0.47	2	0.68	1	1.39	1	0.50
Wilkes	0	0	0	0	0	0	0	0
Wilson	8	3.79	21	7.12	0	0	0	0
Yadkin	0	0	0	0	2	2.78	16	8.00
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>211</b>	<b>100.00</b>	<b>295</b>	<b>100.00</b>	<b>72</b>	<b>100.00</b>	<b>200</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Tar River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	1	0.61	0	0	0	0	0	0
Bertie	0	0	0	0	1	0.65	0	0
Bladen	0	0	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0	0	0
Buncombe	0	0	0	0	1	0.65	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	2	1.21	0	0	0	0	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	1	0.61	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	0	0	0	0	0	0	0	0
Cumberland	0	0	0	0	0	0	0	0
Currituck	0	0	0	0	0	0	0	0
Dare	1	0.61	0	0	1	0.65	0	0
Davidson	0	0	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	0	0	0	0	0	0	0	0
Durham	0	0	1	0.87	0	0	0	0
Edgecombe	80	48.48	65	56.52	70	45.16	124	54.87
Forsyth	0	0	0	0	0	0	0	0
Franklin	2	1.21	1	0.87	0	0	2	0.88
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	0	0	0	0	0	0
Greene	0	0	0	0	0	0	6	2.65
Guilford	0	0	0	0	0	0	0	0
Halifax	0	0	1	0.87	2	1.29	0	0
Harnett	0	0	0	0	1	0.65	0	0
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	0	0	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	1	0.87	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Tar River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	3	1.82	3	2.61	0	0	2	0.88
Jones	1	0.61	0	0	0	0	0	0
Lee	0	0	0	0	2	1.29	0	0
Lenoir	0	0	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	1	0.87	2	1.29	2	0.88
Martin	0	0	0	0	0	0	0	0
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	51	30.91	16	13.91	44	28.39	64	28.32
New Hanover	0	0	0	0	0	0	2	0.88
Northampton	0	0	0	0	0	0	0	0
Onslow	0	0	0	0	0	0	0	0
Orange	0	0	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0	0	0
Pender	0	0	0	0	0	0	0	0
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	7	4.24	12	10.43	18	11.61	6	2.65
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	2	1.74	0	0	0	0
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Upper Tar River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	4	2.42	4	3.48	5	3.23	8	3.54
Warren	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
Watauga	0	0	0	0	0	0	0	0
Wayne	0	0	0	0	0	0	0	0
Wilkes	0	0	0	0	0	0	0	0
Wilson	0	0	0	0	0	0	0	0
Yadkin	12	7.27	8	6.96	8	5.16	10	4.42
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>165</b>	<b>100.00</b>	<b>115</b>	<b>100.00</b>	<b>155</b>	<b>100.00</b>	<b>226</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Upper Tar River</b>						
Alamance	0	0	0	0	0	0
Alexander	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0
Anson	0	0	0	0	0	0
Ashe	0	0	0	0	0	0
Avery	0	0	0	0	0	0
Beaufort	1	1.52	1	0.51	0	0
Bertie	0	0	0	0	0	0
Bladen	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0
Burke	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0
Camden	0	0	0	0	0	0
Carteret	0	0	0	0	0	0
Caswell	0	0	0	0	0	0
Catawba	0	0	0	0	0	0
Chatham	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0
Chowan	0	0	0	0	0	0
Clay	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0
Columbus	0	0	0	0	0	0
Craven	0	0	0	0	0	0
Cumberland	0	0	0	0	0	0
Currituck	0	0	0	0	0	0
Dare	0	0	0	0	1	0.34
Davidson	0	0	0	0	2	0.67
Davie	0	0	0	0	0	0
Duplin	0	0	0	0	0	0
Durham	0	0	1	0.51	0	0
Edgecombe	33	50.00	93	47.21	105	35.35
Forsyth	0	0	0	0	0	0
Franklin	0	0	1	0.51	0	0
Gaston	0	0	0	0	0	0
Gates	0	0	0	0	0	0
Graham	0	0	0	0	0	0
Granville	0	0	0	0	0	0
Greene	0	0	1	0.51	4	1.35
Guilford	0	0	0	0	0	0
Halifax	0	0	1	0.51	1	0.34
Harnett	0	0	0	0	0	0
Haywood	0	0	0	0	0	0
Henderson	0	0	0	0	0	0
Hertford	0	0	0	0	0	0
Hoke	0	0	0	0	0	0
Hyde	0	0	1	0.51	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Upper Tar River</b>						
Iredell	0	0	0	0	0	0
Jackson	0	0	0	0	0	0
Johnston	0	0	0	0	1	0.34
Jones	0	0	0	0	0	0
Lee	0	0	0	0	0	0
Lenoir	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0
McDowell	0	0	0	0	0	0
Macon	0	0	0	0	0	0
Madison	0	0	0	0	0	0
Martin	0	0	0	0	0	0
Mecklenburg	0	0	1	0.51	0	0
Mitchell	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0
Moore	0	0	0	0	0	0
Nash	15	22.73	65	32.99	75	25.25
New Hanover	0	0	1	0.51	0	0
Northampton	0	0	0	0	0	0
Onslow	0	0	0	0	0	0
Orange	0	0	0	0	1	0.34
Pamlico	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0
Pender	0	0	0	0	0	0
Perquimans	0	0	0	0	0	0
Person	0	0	0	0	0	0
Pitt	7	10.61	10	5.08	84	28.28
Polk	0	0	0	0	0	0
Randolph	0	0	0	0	0	0
Richmond	0	0	0	0	0	0
Robeson	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0
Rowan	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0
Sampson	0	0	0	0	0	0
Scotland	0	0	0	0	0	0
Stanly	0	0	0	0	0	0
Stokes	0	0	0	0	0	0
Surry	0	0	0	0	0	0
Swain	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0
Union	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Upper Tar River</b>						
Vance	0	0	0	0	0	0
Wake	3	4.55	12	6.09	17	5.72
Warren	0	0	1	0.51	1	0.34
Washington	0	0	0	0	0	0
Watauga	0	0	0	0	0	0
Wayne	0	0	0	0	0	0
Wilkes	0	0	0	0	0	0
Wilson	0	0	0	0	0	0
Yadkin	7	10.61	8	4.06	5	1.68
Yancey	0	0	0	0	0	0
Total	66	100.00	197	100.00	297	100.00

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	193	59.20	219	50.69	211	42.80	288	41.74
Bertie	0	0	1	0.23	4	0.81	3	0.43
Bladen	0	0	1	0.23	0	0	1	0.14
Brunswick	0	0	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	4	0.58
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	1	0.31	0	0	2	0.41	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	2	0.41	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	3	0.61	3	0.43
Craven	6	1.84	4	0.93	7	1.42	18	2.61
Cumberland	0	0	0	0	3	0.61	1	0.14
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	0	0	0	0	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	0	0	2	0.46	0	0	2	0.29
Durham	0	0	0	0	1	0.20	0	0
Edgecombe	4	1.23	8	1.85	18	3.65	17	2.46
Forsyth	0	0	0	0	0	0	0	0
Franklin	1	0.31	0	0	0	0	1	0.14
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	0	0	0	0	0	0
Greene	6	1.84	9	2.08	12	2.43	9	1.30
Guilford	0	0	0	0	0	0	0	0
Halifax	0	0	0	0	1	0.20	0	0
Harnett	0	0	0	0	3	0.61	0	0
Haywood	0	0	1	0.23	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	0	0	0	0	1	0.20	4	0.58
Hoke	0	0	0	0	0	0	0	0
Hyde	0	0	0	0	0	0	2	0.29



**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	3	0.92	6	1.39	10	2.03	10	1.45
Jones	0	0	1	0.23	1	0.20	0	0
Lee	0	0	1	0.23	0	0	0	0
Lenoir	2	0.61	3	0.69	8	1.62	6	0.87
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	1	0.20	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	4	1.23	16	3.70	17	3.45	34	4.93
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	1	0.14
Nash	3	0.92	3	0.69	4	0.81	8	1.16
New Hanover	0	0	1	0.23	0	0	2	0.29
Northampton	1	0.31	0	0	0	0	0	0
Onslow	1	0.31	15	3.47	8	1.62	13	1.88
Orange	0	0	0	0	0	0	0	0
Pamlico	0	0	0	0	1	0.20	0	0
Pasquotank	0	0	0	0	0	0	0	0
Pender	0	0	0	0	0	0	3	0.43
Perquimans	0	0	0	0	0	0	1	0.14
Person	0	0	0	0	0	0	0	0
Pitt	83	25.46	129	29.86	155	31.44	218	31.59
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	2	0.41	1	0.14
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	0	0	0	0	1	0.14
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	1	0.20	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	1	0.31	4	0.93	7	1.42	9	1.30
Warren	0	0	0	0	0	0	0	0
Washington	0	0	1	0.23	0	0	1	0.14
Watauga	0	0	0	0	0	0	0	0
Wayne	11	3.37	5	1.16	6	1.22	9	1.30
Wilkes	0	0	0	0	0	0	0	0
Wilson	6	1.84	2	0.46	4	0.81	20	2.90
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>326</b>	<b>100.00</b>	<b>432</b>	<b>100.00</b>	<b>493</b>	<b>100.00</b>	<b>690</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>								
Alamance	0	0	0	0	0	0	0	0
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	266	40.00	337	45.42	238	47.41	362	4.00
Bertie	7	1.05	7	0.94	1	0.20	6	0.66
Bladen	0	0	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	7	1.05	1	0.13	0	0	1	0.11
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	2	0.22
Chatham	2	0.30	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	0	0	2	0.22
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	3	0.45	1	0.13	0	0	2	0.22
Craven	23	3.46	12	1.62	5	1.00	14	1.54
Cumberland	0	0	2	0.27	0	0	4	0.44
Currituck	0	0	0	0	0	0	0	0
Dare	0	0	0	0	0	0	0	0
Davidson	0	0	0	0	1	0.20	0	0
Davie	0	0	0	0	0	0	0	0
Duplin	0	0	1	0.13	0	0	1	0.11
Durham	0	0	0	0.0	0	0	1	0.11
Edgecombe	17	2.56	20	2.70	17	3.39	16	1.76
Forsyth	0	0	0	0	0	0	0	0
Franklin	0	0	2	0.27	0	0	1	0.11
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	1	0.15	0	0.0	0	0	0	0
Greene	11	1.65	9	1.21	19	3.78	34	3.74
Guilford	1	0.15	0	0	1	0.20	2	0.22
Halifax	1	0.15	3	0.40	0	0	2	0.22
Harnett	2	0.30	1	0.13	0	0	0	0.0
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	1	0.11
Hertford	3	0.45	0	0	0	0	0	0
Hoke	1	0.15	0	0	0	0	0	0
Hyde	0	0	1	0.13	0	0	0	0

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	3	0.45	4	0.54	4	0.80	17	1.87
Jones	0	0	0	0.00	0	0	0	0
Lee	0	0	1	0.13	0	0	0	0
Lenoir	9	1.35	7	0.94	7	1.39	7	0.77
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	25	3.76	42	5.66	26	5.18	36	3.96
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	0	0	0	0	0	0
Nash	8	1.20	11	1.48	7	1.39	12	1.32
New Hanover	0	0	2	0.27	0	0	1	0.11
Northampton	0	0	0	0	0	0	0	0
Onslow	21	3.16	9	1.21	3	0.60	44	4.84
Orange	0	0	1	0.13	1	0.20	0	0
Pamlico	0	0	0	0	0	0.0	1	0.11
Pasquotank	1	0.15	0	0	0	0	0	0
Pender	0	0	0	0	0	0	1	0.11
Perquimans	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Pitt	219	32.93	229	30.86	147	29.28	268	29.45
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	0	0	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	2	0.30	0	0	0	0	0	0
Rockingham	1	0.15	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	0	0	0	0	0	0
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	0	0	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	8	1.20	11	1.48	3	0.60	7	0.77
Warren	0	0	0	0	0	0	0	0
Washington	0	0	1	0.13	2	0.40	0	0
Watauga	0	0	0	0	1	0.20	0	0
Wayne	5	0.75	12	1.62	3	0.60	26	2.86
Wilkes	0	0	0	0	0	0	0	0
Wilson	18	2.71	14	1.89	16	3.19	39	4.29
Yadkin	0	0	1	0.13	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>665</b>	<b>100.00</b>	<b>742</b>	<b>100.00</b>	<b>502</b>	<b>100.00</b>	<b>910</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>						
Alamance	0	0	0	0	0	0
Alexander	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0
Anson	0	0	0	0	0	0
Ashe	0	0	0	0	0	0
Avery	0	0	0	0	0	0
Beaufort	92	36.36	180	27.57	207	26.24
Bertie	0	0	3	0.46	4	0.51
Bladen	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0
Burke	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0
Camden	0	0	0	0	0	0
Carteret	0	0	2	0.31	1	0.13
Caswell	0	0	0	0	0	0
Catawba	0	0	0	0	0	0
Chatham	0	0	1	0.15	0	0
Cherokee	0	0	0	0	0	0
Chowan	1	0.40	0	0	0	0
Clay	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0
Columbus	0	0	0	0	0	0
Craven	3	1.19	10	1.53	16	2.03
Cumberland	2	0.79	0	0	0	0
Currituck	0	0	0	0	0	0
Dare	1	0.40	0	0	1	0.13
Davidson	0	0	0	0	0	0
Davie	0	0	0	0	0	0
Duplin	0	0	0	0	2	0.25
Durham	0	0	0	0	2	0.25
Edgecombe	5	1.98	26	3.98	31	3.93
Forsyth	0	0	0	0	0	0
Franklin	0	0	0	0	1	0.13
Gaston	0	0	0	0	0	0
Gates	0	0	0	0	0	0
Graham	0	0	0	0	0	0
Granville	0	0	0	0	0	0
Greene	11	4.35	25	3.83	32	4.06
Guilford	0	0	0	0	1	0.13
Halifax	1	0.40	0	0	0	0
Harnett	1	0.40	2	0.31	7	0.89
Haywood	0	0	0	0	0	0
Henderson	0	0	0	0	0	0
Hertford	0	0	0	0	2	0.25
Hoke	0	0	0	0	0	0
Hyde	0	0	1	0.15	0	0

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>						
Iredell	0	0	0	0	0	0
Jackson	0	0	0	0	0	0
Johnston	4	1.58	7	1.07	4	0.51
Jones	0	0	0	0	1	0.13
Lee	0	0	0	0	3	0.38
Lenoir	0	0	3	0.46	9	1.14
Lincoln	0	0	0	0	0	0
McDowell	1	0.40	0	0	0	0
Macon	0	0	0	0	0	0
Madison	0	0	0	0	0	0
Martin	11	4.35	29	4.44	33	4.18
Mecklenburg	1	0.40	0	0	0	0
Mitchell	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0
Moore	0	0	0	0	0	0
Nash	6	2.37	22	3.37	11	1.39
New Hanover	0	0.0	3	0.46	0	0
Northampton	0	0.0	0	0	0	0
Onslow	1	0.40	0	0	0	0
Orange	0	0	0	0	0	0
Pamlico	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0
Pender	0	0	0	0	1	0.13
Perquimans	0	0	0	0	0	0
Person	0	0	0	0	0	0
Pitt	98	38.74	303	46.40	382	48.42
Polk	0	0	0	0	0	0
Randolph	0	0	0	0	0	0
Richmond	0	0	0	0	0	0
Robeson	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0
Rowan	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0
Sampson	0	0	1	0.15	0	0
Scotland	0	0	0	0	0	0
Stanly	0	0	0	0	0	0
Stokes	0	0	0	0	0	0
Surry	0	0	0	0	0	0
Swain	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0
Tyrrell	0	0	1	0.15	0	0
Union	0	0	0	0	2	0.25

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Lower Tar / Upper Pamlico River</b>						
Vance	0	0	0	0	0	0
Wake	4	1.58	8	1.23	9	1.14
Warren	0	0	0	0	0	0
Washington	0	0	0	0	0	0
Watauga	0	0	0	0	0	0
Wayne	2	0.79	9	1.38	5	0.63
Wilkes	0	0	0	0	0	0
Wilson	9	3.56	17	2.60	22	2.79
Yadkin	0	0	0	0	0	0
Yancey	0	0	0	0	0	0
<b>Total</b>	<b>253</b>	<b>100.00</b>	<b>653</b>	<b>100.00</b>	<b>789</b>	<b>100.00</b>



**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Pungo River</b>								
Alamance	0	0	1	0.14	0	0	0	0
Alexander	1	0.16	1	0.14	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	1	0.14	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	212	33.44	250	35.06	214	37.74	135	30.89
Bertie	22	3.47	15	2.10	9	1.59	9	2.06
Bladen	0	0	0	0	1	0.18	0	0
Brunswick	0	0	2	0.28	1	0.18	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	1	0.23
Cabarrus	2	0.32	0	0	1	0.18	0	0
Caldwell	0	0	0	0	0	0	0	0
Camden	0	0	0	0	0	0	0	0
Carteret	1	0.16	0	0	1	0.18	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	0	0	0	0	0	0	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	3	0.47	7	0.98	5	0.88	5	1.14
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	3	0.47	6	0.84	3	0.53	2	0.46
Cumberland	2	0.32	1	0.14	1	0.18	1	0.23
Currituck	0	0	0	0	0	0	1	0.23
Dare	5	0.79	2	0.28	0	0	0	0
Davidson	0	0	1	0.14	0	0	1	0.23
Davie	0	0	0	0	0	0	0	0
Duplin	3	0.47	1	0.14	0	0	1	0.23
Durham	1	0.16	0	0	0	0	2	0.46
Edgecombe	52	8.20	57	7.99	46	8.11	35	8.01
Forsyth	0	0	0	0	0	0	0	0
Franklin	1	0.16	2	0.28	2	0.35	2	0.46
Gaston	0	0	0	0	0	0	0	0
Gates	1	0.16	0	0	1	0.18	0	0
Graham	0	0	0	0	0	0	0	0
Granville	1	0.16	2	0.28	1	0.18	0	0
Greene	8	1.26	8	1.12	8	1.41	7	1.60
Guilford	1	0.16	1	0.14	1	0.18	0	0
Halifax	1	0.16	1	0.14	3	0.53	1	0.23
Harnett	1	0.16	1	0.14	0	0	0	0
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	1	0.16	3	0.42	2	0.35	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	6	0.95	0	0	3	0.53	1	0.23

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Pungo River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	15	2.37	10	1.40	4	0.71	11	2.52
Jones	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0
Lenoir	10	1.58	7	0.98	2	0.35	1	0.23
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	23	3.63	43	6.03	36	6.35	23	5.26
Mecklenburg	2	0.32	0	0	1	0.18	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	3	0.47	2	0.28	0	0	0	0
Nash	16	2.52	30	4.21	21	3.70	16	3.66
New Hanover	2	0.32	3	0.42	0	0	0	0
Northampton	1	0.16	0	0	0	0	0	0
Onslow	1	0.16	2	0.28	1	0.18	0	0
Orange	2	0.32	1	0.14	0	0	1	0.23
Pamlico	0	0	1	0.14	0	0	0	0
Pasquotank	0	0	1	0.14	1	0.18	0	0
Pender	2	0.32	1	0.14	0	0	1	0.23
Perquimans	2	0.32	0	0	0	0	1	0.23
Person	0	0	0	0	0	0	0	0
Pitt	144	22.71	150	21.04	121	21.34	130	29.75
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	1	0.14	0	0	1	0.23
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	0	0	0	0
Rockingham	0	0	1	0.14	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	1	0.16	3	0.42	0	0	0	0
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	2	0.35	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	0	0	1	0.14	0	0	0	0

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2022		2021		2020		2019	
	Num	%	Num	%	Num	%	Num	%
<b>Pungo River</b>								
Vance	1	0.16	1	0.14	0	0	0	0
Wake	21	3.31	23	3.23	13	2.29	18	4.12
Warren	0	0	0	0	0	0	0	0
Washington	13	2.05	20	2.81	16	2.82	7	1.60
Watauga	0	0	1	0.14	0	0	0	0
Wayne	14	2.21	21	2.95	12	2.12	6	1.37
Wilkes	0	0	0	0	0	0	0	0
Wilson	33	5.21	26	3.65	34	6.00	17	3.89
Yadkin	0	0	1	0.14	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
Total								

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Pungo River</b>								
Alamance	1	0.33	0	0	0	0	1	0.30
Alexander	0	0	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0	0	0
Anson	0	0	0	0	0	0	0	0
Ashe	0	0	0	0	0	0	0	0
Avery	0	0	0	0	0	0	0	0
Beaufort	107	34.97	157	38.48	164	43.97	110	33.03
Bertie	1	0.33	8	1.96	0	0	9	2.70
Bladen	0	0	1	0.25	0	0	0	0
Brunswick	1	0.33	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0	0	0
Burke	0	0	0	0	0	0	0	0
Cabarrus	0	0	1	0.25	1	0.27	0	0
Caldwell	0	0	0	0	0	0	1	0.30
Camden	0	0	0	0	0	0	1	0.30
Carteret	0	0	0	0	1	0.27	0	0
Caswell	0	0	0	0	0	0	0	0
Catawba	0	0	0	0	0	0	0	0
Chatham	2	0.65	0	0	1	0.27	0	0
Cherokee	0	0	0	0	0	0	0	0
Chowan	0	0	0	0	3	0.80	0	0
Clay	0	0	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0	0	0
Columbus	0	0	0	0	0	0	0	0
Craven	3	0.98	5	1.23	0	0	2	0.60
Cumberland	0	0	0	0	2	0.54	1	0.30
Currituck	0	0	1	0.25	0	0	0	0
Dare	1	0.33	0	0	1	0.27	1	0.30
Davidson	0	0	0	0	0	0	0	0
Davie	1	0.33	2	0.49	0	0	0	0
Duplin	1	0.33	1	0.25	0	0	0	0
Durham	0	0	0	0	0	0	1	0.30
Edgecombe	21	6.86	34	8.33	28	7.51	37	11.11
Forsyth	0	0	0	0	0	0	2	0.60
Franklin	0	0	6	1.47	0	0	1	0.30
Gaston	0	0	0	0	0	0	0	0
Gates	0	0	0	0	0	0	0	0
Graham	0	0	0	0	0	0	0	0
Granville	0	0	1	0.25	1	0.27	0	0
Greene	2	0.65	5	1.23	0	0	2	0.60
Guilford	2	0.65	2	0.49	0	0	0	0
Halifax	0	0	1	0.25	0	0	0	0
Harnett	1	0.33	0	0	0	0	0	0
Haywood	0	0	0	0	0	0	0	0
Henderson	0	0	0	0	0	0	0	0
Hertford	1	0.33	1	0.25	2	0.54	0	0
Hoke	0	0	0	0	0	0	0	0
Hyde	2	0.65	6	1.47	4	1.07	6	1.80

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Pungo River</b>								
Iredell	0	0	0	0	0	0	0	0
Jackson	0	0	0	0	0	0	0	0
Johnston	6	1.96	5	1.23	8	2.14	4	1.20
Jones	0	0	0	0	0	0	0	0
Lee	1	0.33	0	0	0	0	0	0
Lenoir	3	0.98	1	0.25	2	0.54	2	0.60
Lincoln	0	0	0	0	0	0	0	0
McDowell	0	0	0	0	0	0	0	0
Macon	0	0	0	0	0	0	0	0
Madison	0	0	0	0	0	0	0	0
Martin	19	6.21	22	5.39	24	6.43	16	4.80
Mecklenburg	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0
Moore	0	0	1	0.25	0	0	0	0
Nash	14	4.58	16	3.92	17	4.56	9	2.70
New Hanover	0	0	0	0	1	0.27	0	0
Northampton	0	0	0	0	0	0	0	0
Onslow	1	0.33	0	0	0	0	0	0
Orange	0	0	0	0	1	0.27	0	0
Pamlico	1	0.33	0	0	0	0	0	0
Pasquotank	0	0	1	0.25	0	0	0	0
Pender	0	0	0	0	0	0	0	0
Perquimans	0	0	1	0.25	3	0.80	1	0.30
Person	0	0	0	0	0	0	0	0
Pitt	67	21.90	71	17.40	68	18.23	64	19.22
Polk	0	0	0	0	0	0	0	0
Randolph	0	0	0	0	1	0.27	0	0
Richmond	0	0	0	0	0	0	0	0
Robeson	0	0	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0	0	0
Rowan	0	0	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0	0	0
Sampson	0	0	0	0	0	0	0	0
Scotland	0	0	0	0	0	0	0	0
Stanly	0	0	0	0	0	0	0	0
Stokes	0	0	0	0	0	0	0	0
Surry	0	0	0	0	0	0	0	0
Swain	0	0	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0	0	0
Union	1	0.33	0	0	0	0	2	0.60

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2018		2017		2016		2015	
	Num	%	Num	%	Num	%	Num	%
<b>Pungo River</b>								
Vance	0	0	0	0	0	0	0	0
Wake	15	4.90	20	4.90	10	2.68	15	4.50
Warren	0	0	0	0	0	0	0	0
Washington	4	1.31	14	3.43	13	3.49	11	3.30
Watauga	0	0	0	0	0	0	0	0
Wayne	4	1.31	3	0.74	5	1.34	11	3.30
Wilkes	0	0	0	0	0	0	0	0
Wilson	23	7.52	21	5.15	12	3.22	23	6.91
Yadkin	0	0	0	0	0	0	0	0
Yancey	0	0	0	0	0	0	0	0
<b>Total</b>	<b>306</b>	<b>100.00</b>	<b>408</b>	<b>100.00</b>	<b>373</b>	<b>100.00</b>	<b>333</b>	<b>100.00</b>

**Table IV.13 Number of observed anglers living in North Carolina by county of residency and river fished (continued).**

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Pungo River</b>						
Alamance	0	0	0	0	0	0
Alexander	0	0	0	0	0	0
Alleghany	0	0	0	0	0	0
Anson	0	0	0	0	0	0
Ashe	0	0	0	0	0	0
Avery	0	0	0	0	0	0
Beaufort	63	41.18	283	42.18	325	40.83
Bertie	2	1.31	6	0.89	9	1.13
Bladen	0	0	0	0	0	0
Brunswick	0	0	0	0	0	0
Buncombe	0	0	0	0	0	0
Burke	0	0	0	0	0	0
Cabarrus	0	0	0	0	0	0
Caldwell	0	0	0	0	0	0
Camden	0	0	0	0	0	0
Carteret	0	0	1	0.15	1	0.13
Caswell	0	0	0	0	0	0
Catawba	0	0	0	0	0	0
Chatham	0	0	0	0	1	0.13
Cherokee	0	0	0	0	0	0
Chowan	2	1.31	12	1.79	5	0.63
Clay	0	0	0	0	0	0
Cleveland	0	0	0	0	0	0
Columbus	0	0	0	0	0	0
Craven	1	0.65	9	1.34	4	0.50
Cumberland	0	0	2	0.30	1	0.13
Currituck	0	0	0	0	0	0
Dare	0	0	1	0.15	0	0
Davidson	0	0	1	0.15	0	0
Davie	0	0	0	0	0	0
Duplin	0	0	0	0	0	0
Durham	1	0.65	1	0.15	0	0
Edgecombe	15	9.80	52	7.75	66	8.29
Forsyth	0	0	0	0	1	0.13
Franklin	0	0	2	0.30	4	0.50
Gaston	0	0	0	0	0	0
Gates	0	0	0	0	0	0
Graham	0	0	0	0	0	0
Granville	0	0	0	0	0	0
Greene	2	1.31	13	1.94	17	2.14
Guilford	0	0	0	0	1	0.13
Halifax	0	0	0	0	3	0.38
Harnett	0	0	1	0.15	3	0.38
Haywood	0	0	0	0	0	0
Henderson	0	0	0	0	0	0
Hertford	2	1.31	1	0.15	4	0.50
Hoke	0	0	0	0	0	0
Hyde	0	0	8	1.19	7	0.88

**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Pungo River</b>						
Iredell	0	0	0	0	0	0
Jackson	0	0	0	0	0	0
Johnston	1	0.65	13	1.94	13	1.63
Jones	1	0.65	0	0	0	0
Lee	0	0	2	0.30	0	0
Lenoir	0	0	0	0	2	0.25
Lincoln	0	0	0	0	0	0
McDowell	0	0	0	0	0	0
Macon	0	0	0	0	0	0
Madison	0	0	0	0	0	0
Martin	4	2.61	32	4.77	63	7.91
Mecklenburg	0	0	1	0.15	0	0
Mitchell	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0
Moore	0	0	0	0	0	0
Nash	9	5.88	37	5.51	44	5.53
New Hanover	0	0	2	0.30	0	0
Northampton	0	0	1	0.15	1	0.13
Onslow	0	0	0	0	0	0
Orange	0	0	0	0	1	0.13
Pamlico	0	0	0	0	0	0
Pasquotank	0	0	0	0	0	0
Pender	0	0	1	0.15	0	0
Perquimans	0	0	4	0.60	0	0
Person	0	0	0	0	0	0
Pitt	28	18.30	116	17.29	136	17.09
Polk	0	0	0	0	0	0
Randolph	0	0	0	0	0	0
Richmond	0	0	0	0	0	0
Robeson	0	0	0	0	0	0
Rockingham	0	0	0	0	0	0
Rowan	0	0	0	0	0	0
Rutherford	0	0	0	0	0	0
Sampson	0	0	0	0	0	0
Scotland	0	0	0	0	0	0
Stanly	0	0	0	0	0	0
Stokes	0	0	0	0	0	0
Surry	0	0	0	0	0	0
Swain	0	0	0	0	0	0
Transylvania	0	0	0	0	0	0
Tyrrell	0	0	0	0	0	0
Union	0	0	0	0	0	0



**Table IV.13** Number of observed anglers living in North Carolina by county of residency and river fished (*continued*).

County	2014		2013		2012	
	Num	%	Num	%	Num	%
<b>Pungo River</b>						
Vance	0	0	0	0	0	0
Wake	10	6.54	10	1.49	19	2.39
Warren	0	0	0	0	0	0
Washington	5	3.27	19	2.83	10	1.26
Watauga	0	0	0	0	0	0
Wayne	2	1.31	4	0.60	11	1.38
Wilkes	0	0	0	0	0	0
Wilson	5	3.27	36	5.37	44	5.53
Yadkin	0	0	0	0	0	0
Yancey	0	0	0	0	0	0
Total	153	100.00	671	100.00	796	100.00

**Table IV.14 Mean reported angler expenditures by river and expense type.**

Year	Expenditure <sup>1</sup>	Cape Fear <sup>2</sup>	Upper Neuse	Middle Neuse	Lower Neuse	Upper Tar River	Lower Tar/Upper Pamlico	Pungo	All CSMA
2022	Miles Traveled	16.25	12.88	26.91	37.81	19.66	28.99	62.98	35.97
	Food	\$8.83	\$4.72	\$6.79	\$7.81	\$6.19	\$7.06	\$22.55	\$9.45
	Ice	\$2.93	\$0.38	\$0.80	\$0.90	\$0.34	\$2.77	\$2.78	\$1.28
	Bait	\$7.00	\$2.61	\$1.31	\$1.78	\$0.69	\$5.94	\$1.21	\$2.07
	Boat Fuel/Oil	\$28.04	\$8.40	\$11.16	\$17.30	\$9.98	\$16.97	\$29.19	\$18.56
	Total	\$46.80	\$16.10	\$20.65	\$27.80	\$17.19	\$32.75	\$55.74	\$31.36
2021	Miles Traveled	26.66	27.62	29.58	33.00	22.91	27.32	55.90	35.29
	Food	\$12.41	\$4.96	\$7.57	\$6.12	\$6.46	\$6.44	\$10.95	\$7.37
	Ice	\$1.33	\$0.25	\$0.74	\$0.85	\$0.48	\$1.47	\$2.05	\$1.14
	Bait	\$2.03	\$1.34	\$0.64	\$1.85	\$0.95	\$2.31	\$1.89	\$1.74
	Boat Fuel/Oil	\$8.84	\$6.45	\$7.90	\$12.22	\$5.29	\$13.82	\$17.53	\$13.03
	Total	\$24.61	\$12.99	\$16.85	\$21.05	\$13.18	\$24.05	\$32.42	\$23.28
2020 <sup>3</sup>	Miles Traveled	35.53	17.02	27.67	33.05	8.77	30.91	50.11	35.10
	Food	\$16.86	\$4.89	\$9.53	\$5.68	\$0.00	\$7.91	\$8.18	\$7.01
	Ice	\$1.36	\$0.26	\$0.79	\$0.89	\$0.96	\$1.39	\$1.95	\$1.21
	Bait	\$2.36	\$2.40	\$0.04	\$1.76	\$0.00	\$2.72	\$3.10	\$2.14
	Boat Fuel/Oil	\$7.33	\$3.88	\$8.39	\$10.07	\$0.00	\$12.19	\$15.26	\$11.69
	Total	\$27.90	\$11.42	\$18.75	\$18.40	\$0.96	\$24.22	\$28.49	\$22.05
2019	Miles Traveled	36.01	12.21	25.14	28.35	18.81	29.27	51.65	30.87
	Food	\$7.04	\$1.37	\$8.10	\$7.49	\$3.11	\$5.09	\$7.83	\$6.50
	Ice	\$0.50	\$0.37	\$1.19	\$0.81	\$0.49	\$0.65	\$1.92	\$0.96
	Bait	\$0.83	\$2.42	\$1.57	\$4.47	\$2.36	\$4.68	\$0.93	\$3.19
	Boat Fuel/Oil	\$7.14	\$2.67	\$7.27	\$13.86	\$4.26	\$11.93	\$19.35	\$13.31
	Total	\$15.51	\$6.83	\$18.13	\$26.63	\$10.21	\$22.35	\$30.03	\$23.96

<sup>1</sup>Means reported include expenditures greater than or equal to zero dollars "\$0.00." Lodging not included because of low response rate.

<sup>2</sup>Cape Fear data only sampled from March–May.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.14 Mean reported angler expenditures by river and expense type (continued).**

Year	Expenditure <sup>1</sup>	Cape Fear <sup>2</sup>	Upper Neuse	Middle Neuse	Lower Neuse	Upper Tar River	Lower Tar/Upper Pamlico	Pungo	All CSMA
2018	Miles Traveled	28.08	11.62	27.74	25.39	16.77	27.92	52.08	29.18
	Food	\$6.44	\$0.53	\$6.99	\$5.85	\$0.71	\$6.21	\$8.76	\$5.93
	Ice	\$0.42	\$0.27	\$1.07	\$1.27	\$0.07	\$0.91	\$1.60	\$1.01
	Bait	\$1.68	\$3.97	\$1.08	\$2.93	\$0.23	\$3.41	\$1.63	\$2.41
	Boat Fuel/Oil	\$8.40	\$5.21	\$8.31	\$12.68	\$2.10	\$14.08	\$17.52	\$12.81
	Total	\$16.93	\$9.98	\$17.45	\$22.73	\$3.11	\$24.61	\$29.52	\$22.16
2017	Miles Traveled	32.50	10.80	29.10	27.10	14.90	26.70	47.10	29.60
	Food	\$4.48	\$5.27	\$8.80	\$6.20	\$1.50	\$6.76	\$11.55	\$7.14
	Ice	\$0.56	\$0.89	\$0.89	\$1.00	\$0.30	\$0.95	\$1.61	\$1.03
	Bait	\$3.83	\$2.38	\$1.13	\$2.51	\$2.00	\$4.89	\$2.14	\$2.92
	Boat Fuel/Oil	\$10.48	\$3.64	\$7.33	\$11.15	\$6.79	\$11.29	\$16.50	\$11.64
	Total	\$19.35	\$12.17	\$18.15	\$20.85	\$10.59	\$23.89	\$31.80	\$22.74
2016	Miles Traveled	26.70	12.70	18.40	23.90	16.30	28.90	42.40	27.50
	Food	\$7.25	\$4.34	\$5.79	\$4.78	\$3.90	\$5.94	\$9.82	\$6.25
	Ice	\$1.06	\$0.35	\$0.53	\$0.76	\$0.67	\$0.87	\$1.53	\$0.92
	Bait	\$5.89	\$0.98	\$3.00	\$3.32	\$0.69	\$3.13	\$0.59	\$2.63
	Boat Fuel/Oil	\$8.70	\$2.85	\$6.31	\$9.28	\$15.24	\$11.25	\$14.01	\$10.80
	Total	\$22.90	\$8.53	\$15.63	\$18.13	\$20.50	\$21.19	\$25.94	\$20.59
2015	Miles Traveled	32.07	12.96	19.67	26.44	13.00	31.71	48.85	29.14
	Food	\$12.70	\$3.36	\$5.57	\$5.13	\$1.40	\$7.58	\$9.55	\$6.46
	Ice	\$2.14	\$0.28	\$0.78	\$0.82	\$0.35	\$1.03	\$1.53	\$0.94
	Bait	\$11.43	\$1.42	\$4.73	\$3.74	\$0.51	\$2.61	\$0.87	\$2.74
	Boat Fuel/Oil	\$12.10	\$6.53	\$8.35	\$9.11	\$4.66	\$13.72	\$12.70	\$11.46
	Total	\$38.37	\$11.59	\$19.43	\$18.81	\$6.91	\$24.93	\$24.65	\$21.60

<sup>1</sup>Means reported include expenditures greater than or equal to zero dollars "\$0.00." Lodging not included because of low response rate.

<sup>2</sup>Cape Fear data only sampled from March–May.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.14 Mean reported angler expenditures by river and expense type (continued).**

Year	Expenditure <sup>1</sup>	Cape Fear <sup>2</sup>	Upper Neuse	Middle Neuse	Lower Neuse	Upper Tar River	Lower Tar/Upper Pamlico	Pungo	All CSMA
2014	Miles Traveled	28.56	10.93	15.36	27.19	13.13	27.47	57.14	30.19
	Food	\$5.14	\$5.09	\$5.45	\$5.60	\$0.59	\$7.32	\$19.62	\$8.16
	Ice	\$0.73	\$0.42	\$0.49	\$0.82	\$0.00	\$0.80	\$2.25	\$0.98
	Bait	\$2.64	\$1.62	\$0.71	\$3.78	\$0.17	\$1.76	\$1.59	\$2.34
	Boat Fuel/Oil	\$9.71	\$6.47	\$8.83	\$16.14	\$2.20	\$12.96	\$20.16	\$14.92
	Total	\$18.22	\$13.60	\$15.49	\$26.34	\$2.96	\$22.85	\$43.61	\$26.40
2013	Miles Traveled	23.34	31.84	26.14	16.59	5.30	16.83	14.11	30.28
	Food	\$4.01	\$5.37	\$2.62	\$6.77	\$11.33	\$5.04	\$0.32	\$5.73
	Ice	\$1.09	\$0.75	\$0.45	\$0.55	\$1.42	\$0.58	\$0.30	\$0.79
	Bait	\$4.36	\$2.46	\$1.81	\$0.96	\$3.03	\$1.99	\$0.48	\$2.34
	Boat Fuel/Oil	\$11.09	\$14.26	\$10.96	\$11.99	\$17.68	\$8.00	\$7.04	\$13.52
	Total	\$20.55	\$22.84	\$15.84	\$20.18	\$33.46	\$15.61	\$8.14	\$22.38
2012	Miles Traveled	-	11.75	21.87	30.22	14.80	23.80	51.96	29.20
	Food	-	\$3.99	\$6.22	\$8.31	\$0.00	\$5.83	\$10.18	\$6.87
	Ice	-	\$0.18	\$0.89	\$0.87	\$0.07	\$0.53	\$1.04	\$0.70
	Bait	-	\$1.84	\$3.16	\$2.05	\$0.69	\$1.32	\$3.51	\$2.19
	Boat Fuel/Oil	-	\$2.32	\$8.23	\$14.72	\$2.92	\$12.33	\$18.04	\$12.68
	Total	-	\$8.30	\$18.50	\$25.95	\$3.68	\$20.01	\$32.76	\$22.44
2011	Miles Traveled	-	-	-	25.91	-	28.89	44.48	29.70
	Food	-	-	-	\$21.98	-	\$9.74	\$14.22	\$16.79
	Ice	-	-	-	\$1.95	-	\$1.42	\$2.72	\$1.82
	Bait	-	-	-	\$6.04	-	\$2.01	\$20.73	\$5.65
	Boat Fuel/Oil	-	-	-	\$18.03	-	\$8.65	\$29.07	\$12.96
	Total	-	-	-	\$48.00	-	\$21.82	\$66.74	\$37.22

<sup>1</sup>Means reported include expenditures greater than or equal to zero dollars "\$0.00." Lodging not included because of low response rate.

<sup>2</sup>Cape Fear data only sampled from March–May.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety Protocols.

**Table IV.14 Mean reported angler expenditures by river and expense type (continued).**

Year	Expenditure <sup>1</sup>	Cape Fear <sup>2</sup>	Upper Neuse	Middle Neuse	Lower Neuse	Upper Tar River	Lower Tar/Upper Pamlico	Pungo	All CSMA
2010	Miles Traveled	-	-	-	23.38	-	26.48	55.69	28.57
	Food	-	-	-	\$5.90	-	\$8.70	\$26.84	\$9.16
	Ice	-	-	-	\$1.18	-	\$2.13	\$0.00	\$1.47
	Bait	-	-	-	\$2.18	-	\$5.22	\$41.68	\$6.45
	Boat Fuel/Oil	-	-	-	\$16.14	-	\$7.64	\$17.56	\$9.05
	Total	-	-	-	\$25.40	-	\$23.69	\$86.08	\$26.13
2009	Miles Traveled	-	-	-	29.27	-	0	38.12	35.04
	Food	-	-	-	\$1.49	-	\$0.00	\$14.18	\$5.84
	Ice	-	-	-	\$0.34	-	\$0.00	\$2.28	\$0.84
	Bait	-	-	-	\$0.41	-	\$0.00	\$25.00	\$1.53
	Boat Fuel/Oil	-	-	-	\$7.10	-	\$0.00	\$23.99	\$17.09
	Total	-	-	-	\$9.34	-	\$0.00	\$65.45	\$25.30
2008	Miles Traveled	-	-	-	17.16	-	20.60	55.06	24.31
	Food	-	-	-	\$1.67	-	\$0.00	\$23.68	\$6.45
	Ice	-	-	-	\$0.19	-	\$0.00	\$2.91	\$0.52
	Bait	-	-	-	\$0.23	-	\$0.00	\$30.01	\$2.16
	Boat Fuel/Oil	-	-	-	\$7.01	-	\$10.45	\$27.47	\$11.02
	Total	-	-	-	\$9.10	-	\$10.45	\$84.07	\$20.15
2007	Miles Traveled	-	-	-	19.70	-	21.19	51.98	29.38
	Food	-	-	-	\$2.82	-	\$7.22	\$13.28	\$7.83
	Ice	-	-	-	\$7.00	-	\$1.91	\$2.93	\$1.02
	Bait	-	-	-	\$0.61	-	\$7.85	\$19.45	\$3.63
	Boat Fuel/Oil	-	-	-	\$7.48	-	\$10.80	\$19.46	\$11.67
	Total	-	-	-	\$17.91	-	\$27.78	\$55.12	\$24.15

<sup>1</sup>Means reported include expenditures greater than or equal to zero dollars "\$0.00." Lodging not included because of low response rate.

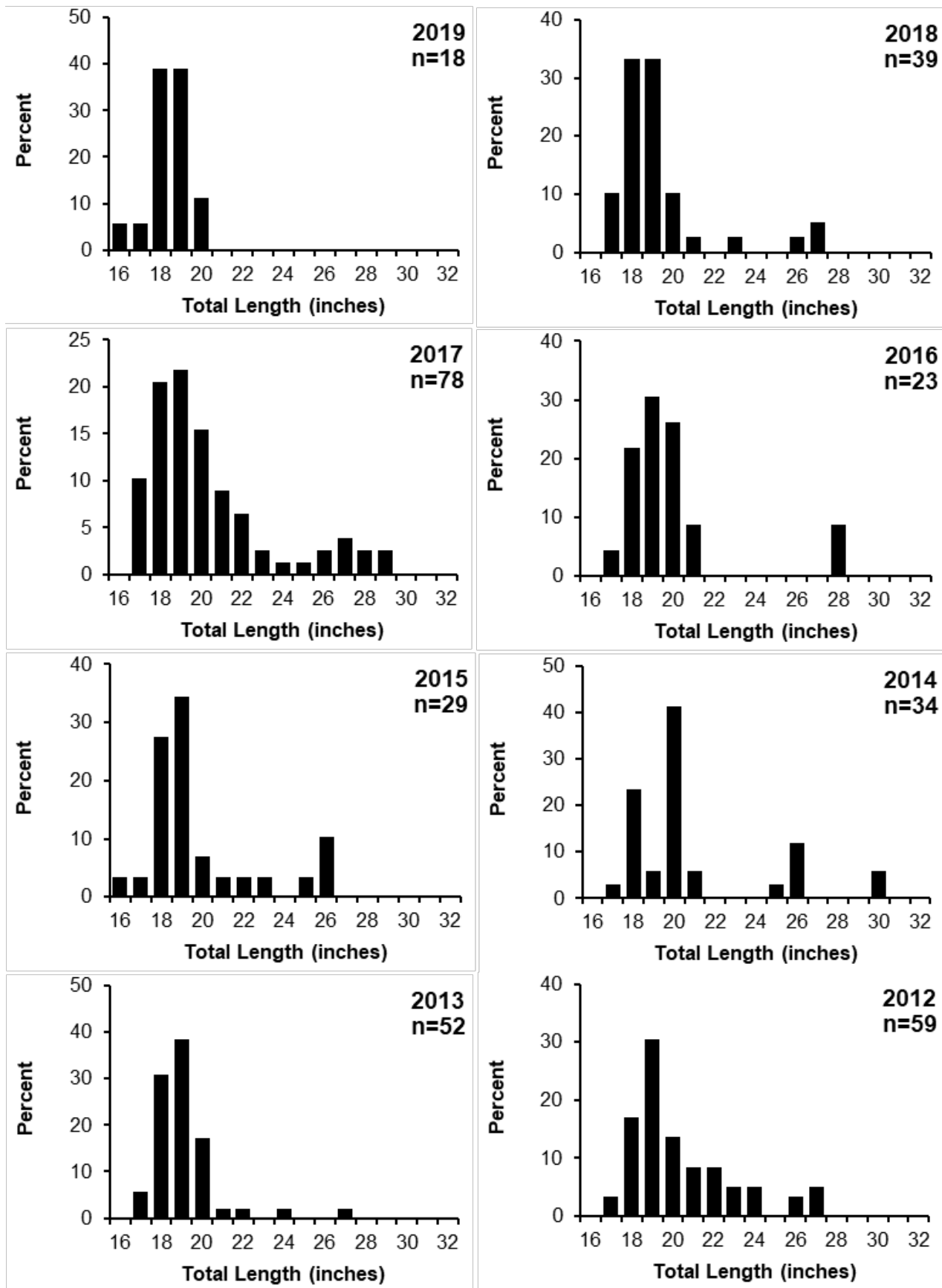
<sup>2</sup>Cape Fear data only sampled from March–May.

<sup>3</sup>Creel sampling was suspended from March 18, 2020 through June 1, 2020, due to the State of North Carolina COVID-19 Safety



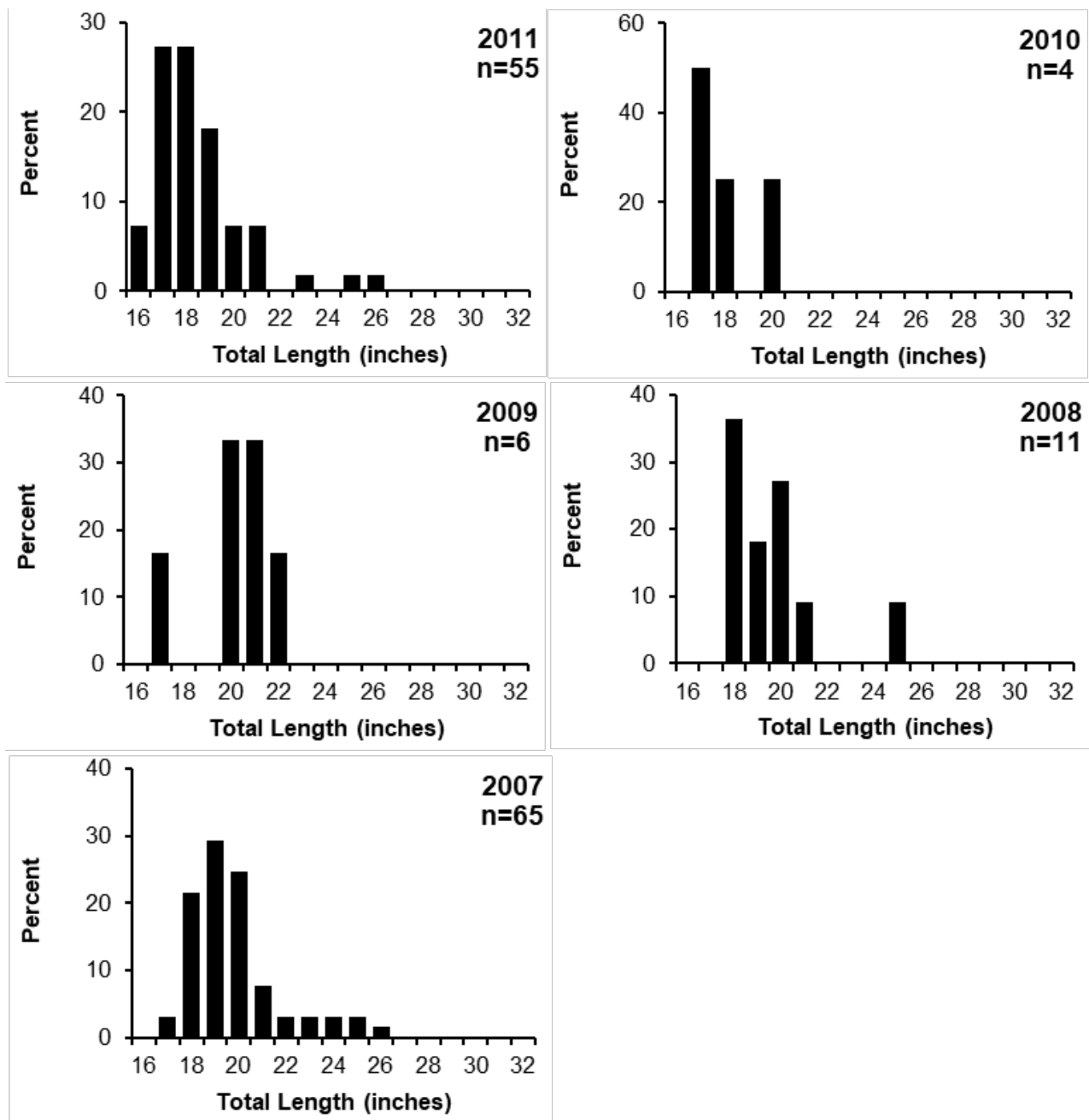
River Zones	
<b>Upper Tar River</b>	<b>Upper Neuse River</b>
Battle Park	Milburnie Park
Dunbar	Anderson Point Park
Bell's Bridge Tarboro	Smithfield
River Bend Park Tarboro	Richardson's Bridge
Old Sparta	Williford Road
Falkland Ramp	Cox's Ferry
Hwy 97 Canoe Access (Pipe)	Steven's Mills Road
Town Common	Goldsboro HWY 117
Port Terminal	Goldsboro HWY 581
<b>Lower Tar &amp; Pamlico River</b>	<b>Middle Neuse</b>
Tranter's Creek	Seven Springs
Washington	Kinston - HWY 70
Dinah's Landing	Kinston - Braxton Rd.
Quarter Deck	Snow Hill
Durham's Creek	Hookerton
Blounts Creek (Crisp Landing)	Grifton
Cotton Patch Landing	Maple Cypress
	Core Creek
<b>Pungo River</b>	<b>Lower Neuse</b>
Leechville	Cowpen Landing
Belhaven WRC	Spring Garden
CeeBee Marine	Cool Springs
Wrights Creek	Glenburnie
<b>Cape Fear River</b>	Bridgeton
Lock and Dam 3	Union Point
Tar Heel	Pollocksville
Torry Hole	Brice's Creek
Lock and Dam 2	Lawson's Creek
Elwell's Ferry	Lee's Landing
Lock and Dam 1	
Mitchell's Landing	
Castle Hayne	
Fayetteville	

Figure IV.1 Map of study area including sampling sites and description of upper and lower zones



**Figure IV.2 Length frequencies by percent of total observed Striped Bass<sup>1</sup> from the Neuse River.**

<sup>1</sup>Beginning in March 2019, harvest of Striped Bass is prohibited in the CSMA. No length or weight data is available from 2020-present.



**Figure IV.2 Length frequencies by percent of total observed Striped Bass<sup>1</sup> from the Neuse River (continued).**

<sup>1</sup>Beginning in March 2019, harvest of Striped Bass is prohibited in the CSMA. No length or weight data is available from 2020-present.



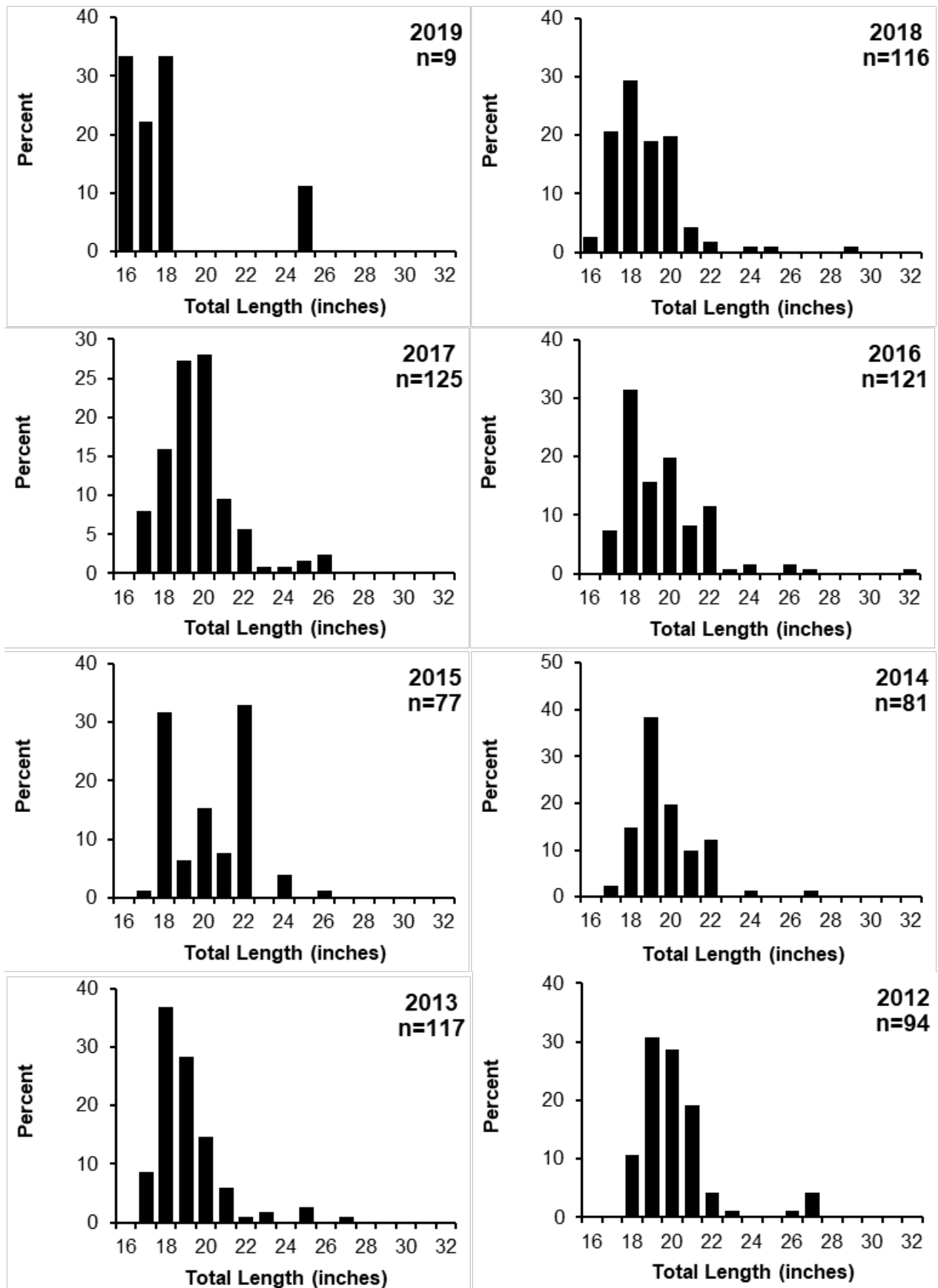
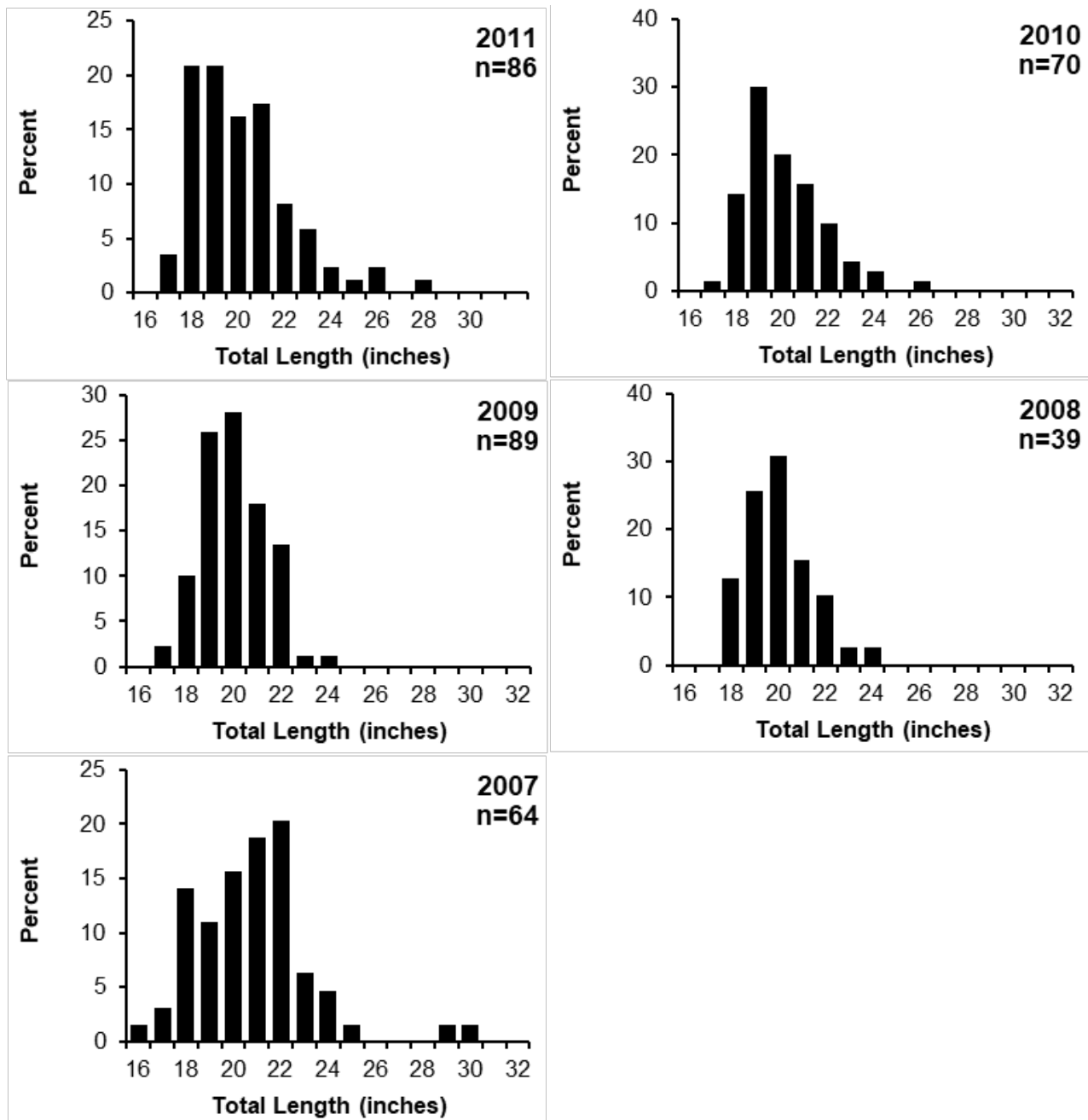


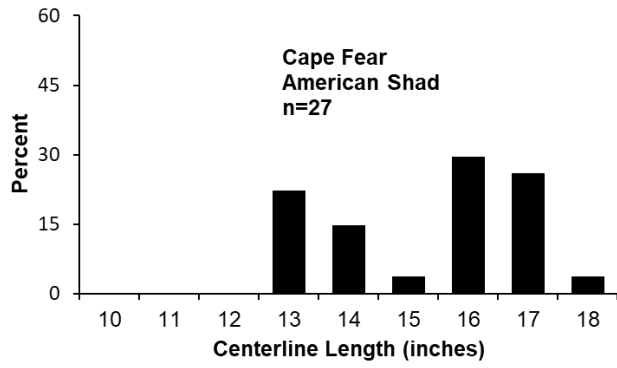
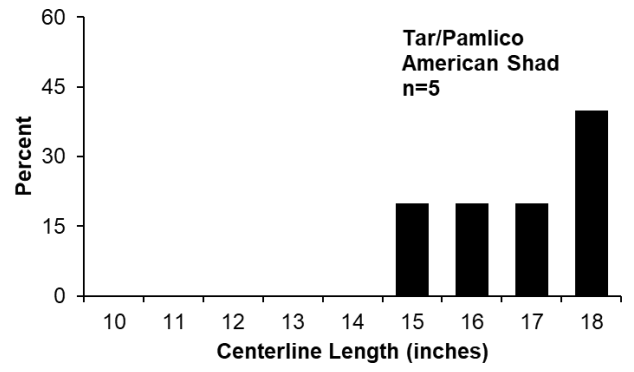
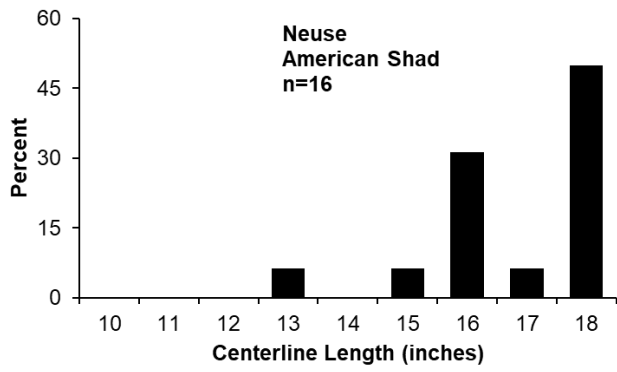
Figure IV.3 Length frequencies by percent of total observed Striped Bass<sup>1</sup> from the Tar/Pamlico and Pungo rivers.

<sup>1</sup>Beginning in March 2019, harvest of Striped Bass is prohibited in the CSMA. No length or weight data is available from 2020-present.

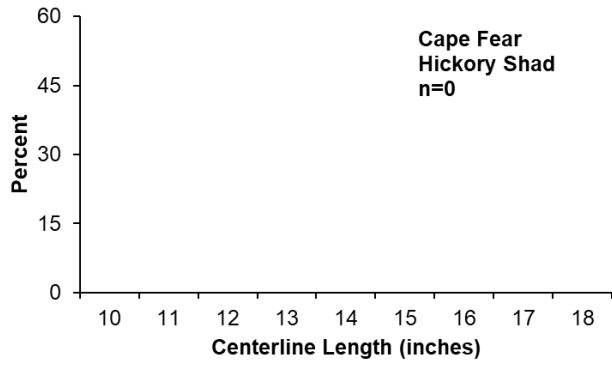
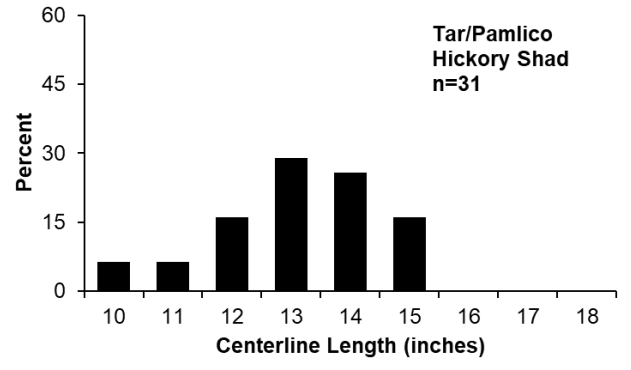
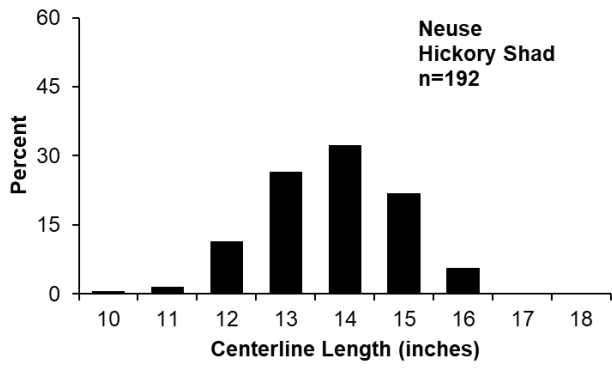


**Figure IV.3 Length frequencies by percent of total observed Striped Bass<sup>1</sup> from the Tar/Pamlico and Pungo rivers. (continued)**

<sup>1</sup>Beginning in March 2019, harvest of Striped Bass is prohibited in the CSMA. No length or weight data is available from 2020-present.



**Figure IV.4** Length frequencies by percent of total observed American Shad from the CSMA, 2022.



**Figure IV.5 Length frequencies by percent of total observed Hickory Shad from the CSMA, 2022.**

# 2023 CSMA CREEL SURVEY

## Interview Form

1. INTERVIEWER ID	<input type="text"/>	5. INTERVIEW TIME (use 2400 clock)	<input type="text"/>	8. PERIOD	<input type="text"/>
2. YR/MO/DAY	<input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="3"/>	6. FISHING TRIP	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	9. REFUSAL	<input type="text"/>
3. INTERVIEW NUMBER	<input type="text"/>	4. TYPE OF DAY	<input type="text"/>	7. TIME FISHING BEGAN	<input type="text"/>
				10. SITE	<input type="text"/>

11. HOURS FISHED	<input type="text"/>	<input type="text"/>	12. PARTY SIZE	<input type="text"/>	16. WERE YOU FISHING FOR ANY PARTICULAR KINDS OF FISH TODAY? IF YES, WHAT KINDS?
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(Hours/Minutes)

13. WERE YOU FISHING FROM:

1  Private Boat    2  Charterboat    3  Shore

1st Target

--	--	--	--	--	--	--	--

2nd Target

--	--	--	--	--	--	--	--

14. AREA FISHED (Specific waterbody)

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15. WATERBODY CLASSIFICATION

1  Coastal    2  Joint    3  Inland

17. PRIMARY FISHING METHOD

1  Casting    2  Trolling    3  Cut Bait    4  Live Bait    5  Gill Net

**UNAVAILABLE CATCH.** Did you land any fish that are not here for me to look at? For example, any that you may have thrown back or used for bait?

**THROW BACKS**

	SPECIES CODE	DISP	# OF FISH
1 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>
2 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>
3 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>
4 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>
5 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>

DISPOSITION CODES
1. Thrown back (legal fish)
2. Thrown back over bag limit
3. Thrown back under size limit
4. In slot (22-27)
5. Closed season, legal
6. Closed season, under size fish
7. Thrown back over the size limit

**AVAILABLE CATCH, COMPLETE TYPE 3 RECORD BY ASKING: May I look at your fish?**

KEPT	SPECIES CODE	# OF FISH	LENGTH (mm)	WEIGHT (kg)	SEX (male=1, female=2)
1 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10 _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Appendix IV.2 CSMA creel survey socioeconomic questions.**

**CSMA Creel Socioeconomic Questions**

- 1) How old were you on December 31, 2022? \_\_\_\_\_
- 2) What state do you live in? \_\_\_\_\_
- 3) If the state is NC, what county do you live in? \_\_\_\_\_
- 4) Are you,  Male  Female
- 5) What do you consider your ethnic background?  Hispanic/Latino (all races)  Asian-Pacific Islander  
 White/Caucasian  Native American  
 African-American/Black
- 6) How many years have you been recreational fishing? \_\_\_\_\_
- 7) How many fishing trips do you expect to take this year on this river for American shad, hickory shad, or striped bass? (if indicated as target species) \_\_\_\_\_

**The following questions ask you about this fishing trip. If you aren't sure of the exact answer, please give your best estimate.**

8) How many nights is the trip? (if none, skip questions 10 and 11).	
9) How many miles did you travel to get here?	
10) How many people who are on the trip are fishing?	
11) How much do you expect to pay for lodging per night on this trip?	
12) How much do you expect to pay for food on this trip?	
13) How much do you expect to pay for ice on this trip?	
14) How much do you expect to pay for bait on this trip?	
15) How much do you expect to pay for boat fuel and oil on this trip?	
16) How much do you expect to pay for vehicle fuel on this trip?	

- 17) Please rate your overall happiness with your fishing trip today on a scale of 1 to 10, with 1 being extremely unhappy and 10 being extremely happy. \_\_\_\_\_
- 18) Please rate your fishing success today on a scale of 1 to 10, with 1 being extremely unsuccessful and 10 being extremely successful. \_\_\_\_\_
- 19) The following is a hypothetical question, however, will help provide information to better understand the economic value of our fisheries resources. Please be as accurate as possible when providing an answer. Keeping in mind the total expenses that you just mentioned, what is the maximum amount of additional money that you would be willing to spend to be able to take this fishing trip today? \_\_\_\_\_
- 20) Out of the following income categories, would you be willing to provide your personal pre-tax annual income?

Less than \$40,000    \$40,000 to \$80,000    \$80,001 to \$120,000    More than \$120,000

- 21) Will you be willing to participate in a follow-up survey?  Yes  No

First	MI	Last
Street		
City	ST	ZIP

## 2023 CSMA CREEL SURVEY ASSIGNMENT SUMMARY FORM

1. INTERVIEWER ID  SCHEDULE NUMBER

2. YR/MO/DAY

3. PERIOD

4. TYPE OF DAY

5. SITE

6. TIME ARRIVED  24 hr clock

7. NUMBER TRAILERS Upon Arrival

8. NUMBER TRAILERS Mid-Count

9. NUMBER TRAILERS Upon Departure

10. NUMBER On Bank When Arrived

11. NUMBER On Bank Mid-Time Count

12. NUMBER On Bank When Departed

13. NUMBER Fishing Parties Missed

14. NUMBER Fishing Parties Refused

15. TIME DEPARTED  24 hr clock

Comments