

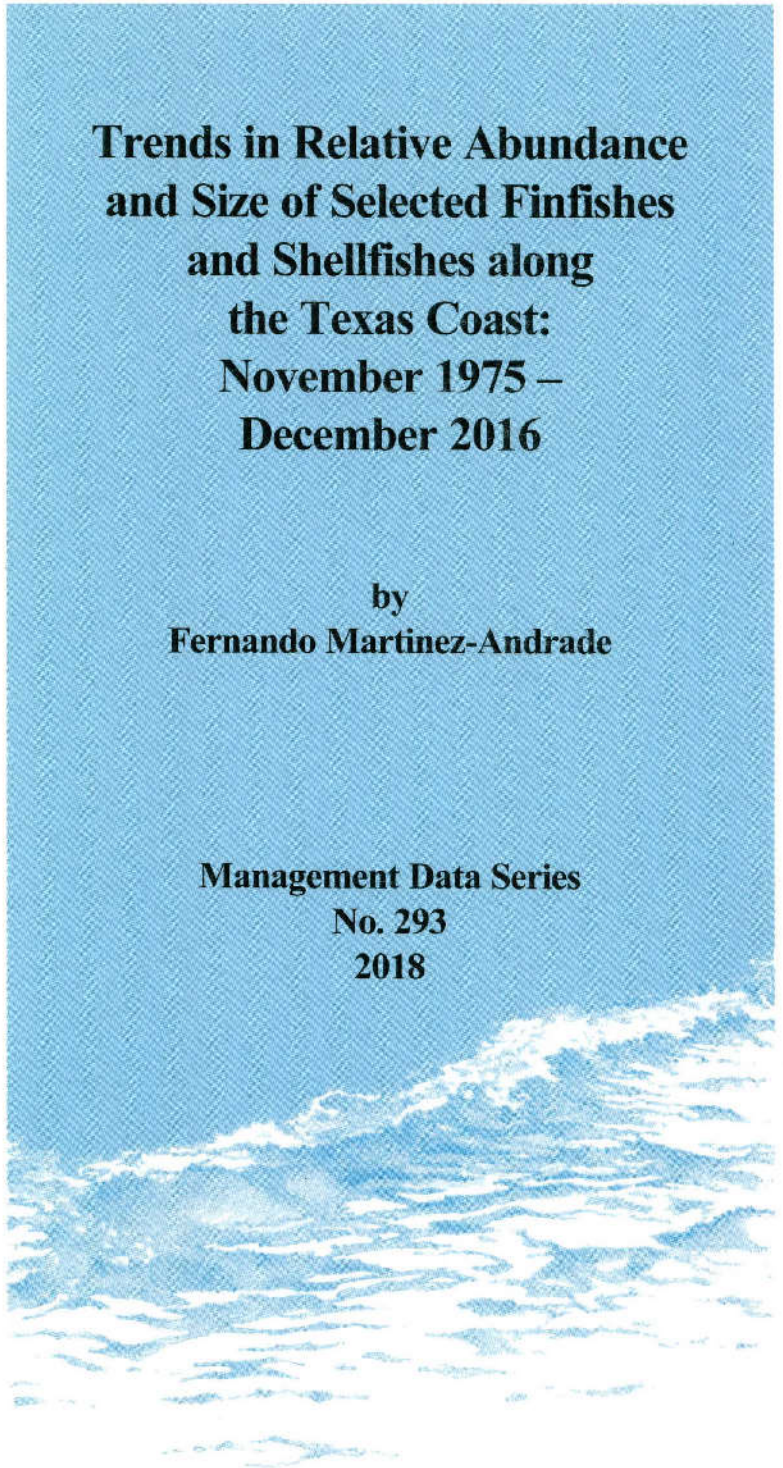
**Trends in Relative Abundance
and Size of Selected Finfishes
and Shellfishes along
the Texas Coast:
November 1975 –
December 2016**

by
Fernando Martinez-Andrade

**Management Data Series
No. 293
2018**



COASTAL FISHERIES DIVISION
4200 Smith School Road
Austin, Texas 78744



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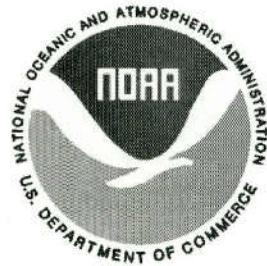
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Table of Contents

List of Tables	iii
List of Figures	iv
List of Appendices.....	vi
Executive Summary	vii
Introduction.....	1
Methods.....	2
Results.....	4
Gill Net	4
Bay Bag Seine.....	6
Bay Trawl	7
Gulf Trawl	7
Oyster Dredge	8
Hydrological Data.....	8
Acknowledgements.....	9
References.....	10
Tables	11
Figures	93
Appendices	108

List of Tables

Table 1.	Mean catch rates (No./h) and mean total lengths (mm) of selected fishes and blue crab caught with gill nets (all meshes combined) by bay system during spring 1976-2016.....	11
Table 2.	Mean catch rates (No./h) and mean total lengths (mm) of selected fishes and blue crab caught with gill nets (all meshes combined) by bay system during fall 1975-2016.....	23
Table 3.	Annual mean catch rate (No./ha) and mean total lengths (mm) of selected fishes and shellfishes caught with 18.3-m bag seines by bay system during 1977-2016.....	36
Table 4.	Annual mean catch rates (No./h) and mean total lengths (mm) of select fishes and shellfishes caught with 6.1-m trawls in Texas bay systems during 1982-2016.....	54
Table 5.	Annual mean catch rates (No./h) and mean total lengths (mm) of select fishes and shellfishes caught with 6.1-m trawls in the Texas Territorial Sea during 1985-2016.....	71
Table 6.	Annual mean catch rates (No./h) and mean total lengths (mm) by size class of Eastern oyster caught with 46.0-cm wide dredges on reef stations in Texas bay systems during 1984-2016.....	89

List of Figures

Figure 1.	Texas Gulf shoreline and Texas Territorial Sea (TTS).....	93
Figure 2.	Spring gill net mean catch rates (No./h \pm 1SE) for Red Drum, Black Drum, Spotted Seatrout and Atlantic Croaker during 1976-2016.	94
Figure 3.	Fall gill net mean catch rates (No./h \pm 1SE) for Red Drum, Black Drum, Spotted Seatrout and Atlantic Croaker during 1975-2016.	95
Figure 4.	Spring gill net mean total lengths (mm \pm 1SE) for Red Drum, Black Drum, Spotted Seatrout and Atlantic Croaker during 1976-2016.	96
Figure 5.	Fall gill net mean total lengths (mm \pm 1SE) for Red Drum, Black Drum, Spotted Seatrout and Atlantic Croaker during 1975-2016.	97
Figure 6.	Seasonal bag seine mean catch rates (No./ha) for juvenile Red Drum (Nov-Mar), Black Drum (Jun-Jul), Spotted Seatrout (Jul-Nov) and Atlantic Croaker (Feb-May) during 1978-2016. Red Drum 35-75 mm Spotted Seatrout 20-75 mm, Black Drum 35-110 mm and Atlantic Croaker 30-85 mm are considered to be young-of-the-year.	98
Figure 7.	Seasonal bag seine mean total lengths (mm) for juvenile Red Drum (Nov-Mar), Black Drum (Jun-Jul), Spotted Seatrout (Jul-Nov) and Atlantic Croaker (Feb-May) during 1978-2016. Red Drum 35-75 mm, Spotted Seatrout 20-75 mm, Black Drum 35-110 mm and Atlantic Croaker 30-85 mm are considered to be young-of-the-year.	99
Figure 8.	Seasonal bag seine mean catch rates (No./ha) for juvenile brown shrimp (Apr-Jul), white shrimp (Jul-Nov) and blue crab (Mar-Jun) during 1978-2016. Brown and white shrimp 33-82 mm and blue crab 13-42 mm are considered young-of-the-year.	100
Figure 9.	Seasonal bag seine mean total lengths (mm) for brown shrimp (Apr-Jul), white shrimp (Jul-Nov) and blue crab (Mar-Jun) during 1978-2016. Brown and white shrimp 33-82 mm and blue crab 13-42 mm are considered to be young-of-the-year.	101
Figure 10.	Annual bay trawl catch rates (No./h \pm 1SE) for brown shrimp, white shrimp, blue crab and Atlantic Croaker during 1982-2016.	102
Figure 11.	Annual bay trawl mean total lengths (mm \pm 1SE) for brown shrimp, white shrimp, blue crab and Atlantic Croaker during 1982-2016.	103

Figure 12. Annual Gulf trawl-mean catch rates (No./h \pm 1SE) for brown shrimp, white shrimp, blue crab and Atlantic Croaker during 1985-2016.....104

Figure 13. Annual Gulf trawl mean total lengths (mm \pm 1SE) for brown shrimp, white shrimp, blue crab and Atlantic Croaker during 1985-2016.....105

Figure 14. Annual mean oyster dredge catch rates (No./h) for Eastern oyster spat (\leq 25 mm), small oysters (26-75 mm) and market oysters (\geq 76 mm) during 1984-2016.106

Figure 15. Annual mean oyster dredge total lengths (mm) for small and market Eastern oysters during 1984-2016.107

List of Appendices

Appendix A.	Summary of historical sampling dates, gear description, procedures, dates, number of samples collected, bay shoreline distances and surface areas used in calculating weighting factors, and list of species collected.	108
Appendix B.	Summary of hydrological data collected for gill net, bay bag seine, oyster dredge and bay and Gulf trawl samples	140
Appendix C.	Summary of SEAMAP samples by year and depth zone for brown shrimp, white shrimp, pink shrimp and blue crab collected off Texas during 1985-2014.....	166

Executive Summary

Annual and seasonal catch rate and mean length estimates of selected species in major bay systems and coastwide are presented and include a description of current trends in relative abundance and size.

Most species of finfish and shellfish presented either an upward or a relatively stable trend in catch rates with the only exceptions being Southern Flounder and blue crab. However, both species showed improvement in recent years.

Spring and fall gill net coastwide catch rates of Red Drum, Spotted Seatrout, Black Drum and finfish species increased; varied for Atlantic Croaker, Sheepshead and blue crab, and decreased for Southern Flounder. Gill net mean lengths increased for Red Drum, Black Drum, Sheepshead, Southern Flounder, and finfish; remained stable for blue crab and were variable for Spotted Seatrout and Atlantic Croaker.

Seasonal bag seine coastwide catch rates were highly variable with an overall tendency to increase for Red Drum, Spotted Seatrout, Black Drum, Atlantic Croaker, and brown shrimp; remained near average for white shrimp and decreased for blue crab. Bag seine mean lengths presented modest variation for most species except blue crab, which decreased.

Bay trawl coastwide catch rates increased for Atlantic Croaker and finfish; were variable for brown and white shrimp, and decreased for blue crab and pink shrimp. Bay trawl mean lengths increased for Atlantic Croaker; remained relatively stable for finfish, brown shrimp and white shrimp; varied for blue crab and decreased slightly for pink shrimp.

Coastwide annual Gulf trawl catch rates increased for Atlantic Croaker, Gulf Menhaden, Red Snapper, finfish, white shrimp, and pink shrimp; remained relatively stable for brown shrimp, and decreased for blue crab. Gulf trawl mean lengths increased slightly for white shrimp; were stable for Red Snapper and finfish; were variable for Gulf Menhaden, pink shrimp and blue crab, and decreased for Atlantic Croaker and brown shrimp.

Coastwide annual catch rates of Eastern oyster spat were variable with an overall increase; small and market oysters increased until the late 1990's and have decreased since then. Oyster dredge mean lengths were relatively stable in small and market oysters.

Introduction

The Texas Parks and Wildlife Department (TPWD) is mandated by the Texas Legislature and the Texas Parks and Wildlife Commission to investigate population trends, habitat variability, socio-economics, commercial and recreational fishing impacts and any other factors or conditions which may result in increases or decreases of finfishes and shellfishes in Texas waters.

Fisheries-independent data are used to determine relative abundance and size of finfishes and shellfishes in Texas coastal waters to assist in managing and allocating harvest of marine resources in Texas jurisdictional waters. To obtain these data, TPWD has used various fishing gears systematically in all major Texas bays and selected areas of the Gulf of Mexico.

TPWD initiated a standardized fisheries-independent monitoring program in 1975 using gill nets and over time, other fishing gears were incorporated into the sampling program to monitor and assess relative trends in abundance and size of finfishes and shellfishes. Bag seines were added in 1977, bay trawls in 1982, oyster dredges in 1984, and Gulf trawls in 1985.

Seasonal gill nets and monthly bag seine, trawl, and oyster dredge samples provide a statistically consistent and cost efficient method for obtaining population trend information on juvenile, sub-adult, and adult finfish and shellfish.

TPWD long-term trend data, based on fisheries-independent monitoring, are necessary to assess changes in relative abundance of these populations. Shrimp data were used to recommend dates for the annual "Texas Closure" of Texas Gulf waters to shrimping (Fuls, 2001). Oyster data were used to establish the oyster transplant season in Galveston Bay. Finfish data were used to recommend changes in fishing regulations.

These data were also used to develop management plans for shrimp, oysters and blue crabs as mandated by the Texas Legislature. Additionally, these data are used routinely by multiple scientists in the academia, private organizations and other public entities, such as the Gulf of Mexico Fisheries Management Council and the Gulf States Marine Fisheries Commission.

TPWD database was used extensively by both the Galveston Bay and Corpus Christi Bay National Estuary Programs to determine status and trends of populations. Data in the present report are used to determine long-term trends in abundance and stability of finfishes and shellfish populations in Texas coastal waters and to implement management regulations.

Effective management of marine species populations requires knowledge of the relationship between spawning and subsequent adult abundance (Cushing 1970, Gulland 1977). Since it has been possible to detect changes in annual abundances with bag seines and gill nets, it may be possible to determine stock-recruitment relationships utilizing these gears.

To determine effects of environmental variables as well as the impact that fishing pressure has on the coastal populations of Texas, the long-term, fisheries-independent monitoring program used by TPWD should be maintained.

The objectives of the present study were to:

1. Monitor trends in species composition, size and relative abundance of selected finfishes and shellfishes in Texas coastal bay systems and in the Gulf off Texas.
2. Publish the results in a report which will assist resource managers to effectively manage finfishes and shellfishes.

Differences in the information contained in this report compared to previous versions are due to database updates. Additionally, coastwide estimates include now sample size as a weighting factor and coastwide gill net and bag seine estimates include samples collected in Cedar Lakes since 1996 by the Perry R. Bass Marine Fisheries Research Station in Palacios, Texas. The present report should be considered the most accurate to date.

Methods

Bag seines and monofilament gill nets (Appendix A) were used in each of the ten major Texas bay systems: Sabine Lake, Galveston, Cedar Lakes, East Matagorda, Matagorda, San Antonio, Aransas, Corpus Christi, upper Laguna Madre, and lower Laguna Madre. Bay trawls were used in the same bay systems with the exception of Cedar Lakes. Trawls, identical to those used in the bays, were used in five Gulf areas of the Texas Territorial Sea (TTS), up to 16.7 km from shore and 24.1 km on either side of each of the Sabine Pass jetties (Sabine), Galveston jetties (Galveston), Matagorda jetties (Port O'Connor), Aransas Pass jetties (Port Aransas), and 48.2 km north from the Texas-Mexico border (Port Isabel) (Figure 1). Oyster dredges (Appendix A) were used in the Galveston, Matagorda, San Antonio and Aransas bay systems.

Gill net and bag seines sites were randomly selected from grids (1 minute latitude by 1 minute longitude) that contained ≥ 15.2 m of shoreline. Each selected grid was subdivided into 144 5-second gridlets. All gridlets that contained ≥ 15.2 m of shoreline were used to randomly choose sample sites.

Gill net sets were conducted overnight during each spring and fall season (Appendix A). The spring season began with the 2nd full week in April and extended for 10 full weeks. The fall season began with the 2nd full week in September and extended for 10 full weeks. Between three and five nets (182.9 m in length with four continuous 45.7 m panels of 76, 102, 127, and 152 mm mesh sizes) were set each week in each bay, except in East Matagorda Bay, where two overnight sets were made each week and Cedar Lakes, where one overnight set was made each week (two sets per week for years 1996 to 1999). Gill nets were set perpendicular to shore with the smallest mesh shoreward. Nets were set within one hour before sunset and were retrieved within four hours after the following sunrise. Total fishing time was recorded (nearest 0.1 h).

Bag seine samples were collected monthly during two periods (1-15 and 16-31) of the month (Appendix A). Bag seines were pulled parallel to the shoreline for 15.2 m. The surface area sampled (nearest 0.01 ha) was estimated using distance pulled and length of extension of the bag seine. No grid was sampled more than once in a month.

Trawls were used in bays which were stratified into two zones: Zone 1 (upper bay nearest mouths of rivers) and Zone 2 (lower bay farthest from rivers). Trawl sites in Zones 1 and 2 were randomly selected from bay grids (1 minute latitude by 1 minute longitude) that contained water ≥ 1 m deep in at least 1/3 of the grid and which were known to be free of obstructions. One half of the monthly trawl samples in each zone in each bay system were collected during each of two periods (1-15 and 16-31) of the month (Appendix A). In East Matagorda Bay all water was designated as Zone 1; in each of Sabine Lake, upper and lower Laguna Madre all water was designated as Zone 2. In Zones 1 and 2, trawls were towed in a circular motion near the center of each grid. All trawl tows within bays were 10 minutes in duration. No grid was duplicated in a month.

Gulf trawl sites in each area were randomly selected from grids (1 minute latitude by 1 minute longitude) in the TTS (Figure 1) that contained water ≥ 1.8 m deep in at least 1/3 of the grid and which were known to be free of obstructions. One half of the samples in each area were collected during each of two periods (1-15 and 16-31) of the month (Appendix A). Trawls were towed linearly, parallel to the fathom curve; direction of tow (north or south) was randomly chosen for the initial tow and alternated on subsequent tows. All tows were 10 minutes in duration. No grid was duplicated in a month.

Trawls were used during daylight in the Gulf off Sabine Pass, Galveston, Port O'Connor, Port Aransas, and Port Isabel during June and November 1985-2014 in conjunction with the Southeast Area Monitoring and Assessment Program (SEAMAP). Detailed descriptions of sample procedures are reported by Rester (2017).

In each major oyster producing bay (Galveston, Matagorda, San Antonio, and Aransas) oyster reef areas were mapped for defined reefs. Criteria for defined reefs were Eastern oyster reefs that had ≥ 0.2 m higher than adjacent bottom for a continuous distance of ≥ 91.4 m long and 0.4 m wide. Oyster dredge sites were randomly selected from bay grids containing defined oyster reefs. Each selected grid was divided into 144 5-second gridlets. All gridlets that contained defined oyster reefs were used to randomly choose sample sites. One half of the oyster samples were collected during each of the two periods (1-15 and 16-31) of the month (Appendix A). Dredges were pulled linearly for 30 seconds. Stations were not duplicated within a month.

Sample catch rates for each species were calculated by dividing total number captured by either total hours fished (gill net, trawl, and oyster dredge) or area sampled (bag seine). Catch rates for each bay system were then calculated by year or season. Bay size (as miles of shoreline for gill net and bag seine samples or surface area for bay trawls) and sample size (Kish, 1992) were weighed for coastwide catch rate estimates (Table A.7). Fish greater than 204 mm long were eliminated from bag seine catch rate calculations based on the findings of McEachron and Green (1986). Live Eastern oysters were grouped into spat (5-25 mm), small oysters (26-75 mm), and market oysters (≥ 76 mm).

Total length (TL) [or either standard length (SL) or fork length (FL) if total length was not available] of organisms caught was recorded. In gill nets, up to 19 individuals of each species were measured, within each mesh size, on each sampling day. In trawls, up to 50 shrimp (length from tip of rostrum to tip of telson) of each species (brown, white, pink), 35 blue crabs (carapace width between spine tips) and 19 individuals of all other species were measured in each sample.

For all other gears, up to 19 specimens were measured for each species in each sample collected.

Mean TL of individual species in gill nets were calculated for each of the four mesh sizes. Mean lengths for the combined meshes were calculated by weighing individual species mean lengths in each mesh by the number of each species caught in each mesh. For all other gears, mean lengths of individual species were calculated from individuals measured in each sample. Coastwide total mean lengths for each species in all gears were weighed according to the catch rate in each bay system and by bay specific and gear specific weighting factors used for coastwide catch rates.

Surface salinity (ppt), water temperature (°C), dissolved oxygen (mg/L) and turbidity (Nephelometric Turbidity Units or NTUs) were measured at the set and pickup for each gill net and prior to each bag seine sample. Bottom salinity, water temperature, dissolved oxygen and turbidity were measured prior to each trawl and oyster dredge sample.

Graphic and linear regression analyses were performed to detect a general trend in coastwide annual catch rates, from the year that sampling begun with each fishing gear. For each individual species a graphic was constructed (catch rate or mean length vs. years) and a linear regression trend line was added to determine the tendency to increase or decrease over the years. Statistically significant coefficients of determination (R^2) were included to indicate total variation (expressed as percentage) in catch rate that can be accounted for by the regression equation. Standard error was included for most mean catch rate and mean length graphics.

Results

Gill Net

Red Drum (*Sciaenops ocellatus*) coastwide spring gill net catch rates increased since the late 1970's ($R^2 = 0.54$). The lowest catch rate was recorded in 1978 (0.27/h) and the highest in 1996 (1.45/h) (Table 1; Figure 2). The spring gill net mean length for Red Drum increased until the early 1990's and has remained relatively stable with a minimum of 417 mm TL in 1980 and a maximum of 515 mm TL in 1990 and 1994 (Table 1; Figure 4).

The fall gill net catch rate of Red Drum increased from 1982 to 2011 and decreased slightly over the last few years. The lowest catch rate of 0.49/h occurred in 1982 and the highest of 1.13/h in 2002 (Table 2; Figure 3). Fall gill net mean length for Red Drum increased from a low value of 381 mm TL in 1975 to 505 mm TL in 2000 (Table 2; Figure 3).

Spotted Seatrout (*Cynoscion nebulosus*) coastwide spring gill net catch rates increased considerably from 1984 to 2016. The lowest catch rate was recorded in 1984 (0.32/h) and the highest in 2016 (1.12/h) (Table 1; Figure 2). Coastwide spring gill net mean lengths increased until the early 1980's and have remained relatively stable since then. The smallest size of 421 mm TL was recorded in 1977, the largest (495 mm TL) in 1982 (Table 1; Figure 4).

Fall gill net catch rates of Spotted Seatrout increased since 1979, from a low of 0.23/h to a high 0.56/h in 1998 and 2004 (Table 2; Figure 3). The mean length for Spotted Seatrout caught in fall gill nets was variable, from 470 mm TL in 1990 to 430 mm TL in 2010 (Table 2; Figure 5).

Black Drum (*Pogonias cromis*) spring coastwide gill net catch rates increased considerably over the entire sampling period ($R^2 = 0.59$). The lowest spring coastwide catch rate (0.35/h) occurred in 1979 and the highest in 2001 (1.66/h) (Table 1; Figure 2). Mean lengths increased from 343 mm TL in 1980 to 457 mm TL in 2006 (Table 1; Figure 4).

Fall Black Drum catch rates mirrored spring catch rates and increased considerably; a low catch rate of 0.33/h was recorded in 1979 and 1984 and a record high catch rate of 1.70/h was recorded in 2009 (Table 2; Figure 3). Mean length increased from 352 mm TL in 1980 to 438 mm TL in 1995 and have remained relatively stable since then (Table 2; Figure 5).

Sheepshead (*Archosargus probatocephalus*) spring gill net coastwide catch rates were variable and decreased from peaks in 1976 and 1981 (0.22/h both years) to a low of 0.04/h in 1994, then increased until 2003 (0.17/h) and has had some variation since then (average 0.11/h) (Table 1). Sheepshead spring mean length increased from 303 mm in 1977 to 420 mm TL in 2006 (Table 1).

Fall gill net Sheepshead catch rates decreased from 0.34/h in 1975 to 0.04/h in 1991 and have increased since then (average 0.1/h) (Table 2). Sheepshead fall gill net mean lengths have increased from 298 mm TL in 1976 to 401 mm TL in 2005 (Table 2).

Southern Flounder (*Paralichthys lethostigma*) spring gill net coastwide catch rates decreased from 0.09/h in 1980 to 0.01/h in 2007 ($R^2 = 0.45$) and have increased slightly since then (average 0.03/h) (Table 1). Spring mean lengths increased from 329 mm TL in 1979 to 394 mm TL in 2007 and have decreased since then (average 367 mm TL) (Table 1).

Fall gill net southern Flounder catch rates decreased from 0.14/h in 1982 to 0.03/h in 2007 and again in 2013 ($R^2 = 0.64$) (Table 2). The fall gill net mean length increased from 325 mm TL in 1990 to 392 mm TL in 2009 and has been relatively stable since 1993.

Atlantic Croaker (*Micropogonias undulatus*) coastwide spring gill net catch rates decreased from 1976 (0.29/h) to 1989 (0.02/h) and have recovered since then (average 0.08/h) (Table 1, Figure 2). Spring gill net mean lengths decreased from 313 mm TL in 1982 to 261 mm TL in 1992, 2003 and 2014 (Table 1, Figure 2).

Catch rates of Atlantic Croaker caught in fall gill nets were variable; the lowest catch rate occurred in 1975 (0.11/h) and the highest in 1993 (0.50/h) (Table 2; Figure 3). Fall mean lengths of Atlantic Croaker show a slight decrease from 318 mm TL in 1977 to 261 mm TL in 2010 (Table 2, Figure 3).

Spring gill net coastwide catch rates for total finfish more than doubled from 3.72/h in 1979 to 8.40/h in 2013 ($R^2 = 0.52$) (Table 1). The spring gill net mean length for total finfish also increased substantially from 378 mm in 1977 to 442 mm in 2010 ($R^2 = 0.64$) (Table 1).

Fall gill net catch rates for total finfish increased from 3.69/h in 1979 to 6.82/h in 2010 (Table 2). The fall gill net mean length for total finfish increased from 361 mm TL in 1978 and 1980 to 415 mm TL in 2010 ($R^2 = 0.75$) (Table 2).

Blue crab (*Callinectes sapidus*) spring coastwide gill net catch rates decreased from 0.23/h in 1985 to 0.02/h in 2000; catch rates after 2000 have been variable (average 0.08/h) (Table 1). Spring gill net mean length (measured as carapace width) remained relatively stable with an overall mean of 146 mm and ranged from a low of 106 mm in 2004 to 155 mm in 2006 and 2011 (Table 1).

Fall catch rates of blue crab decreased from 0.19/h in 1983 to 0.01/h in 2000; however, catch rates have recovered since then and reached a record high of 0.22/h in 2015 (Table 2). Fall gill net mean carapace width had little variation with an overall mean of 145 mm and fluctuated from 155 mm in 2007 to 125 mm in 2011 (Table 2).

Bay Bag Seine

Annual (calendar year) bag seine mean catch rates and lengths by species and bay are presented on Table 3; seasonal catch rates and mean lengths for selected species are presented on Figures 6 through 9.

Red Drum coastwide seasonal catch rates (November-March) were variable and ranged from 5/hectare during the 1989-1990 season to 59/hectare the following season (Figure 6). Coastwide mean lengths were relatively stable and fluctuated between 46 and 60 mm TL (Figure 7).

Spotted Seatrout seasonal catch rates (July-November) were variable with an overall trend to increase; the lowest catch rate of 7/ha was recorded in consecutive years from 1984 to 1986; the highest catch rate of 29/ha was recorded in 2010 (Figure 6). Coastwide seasonal mean lengths fluctuated between 45 and 58 mm TL (Figure 7).

Black Drum seasonal catch rates (June-July) were highly variable; with peaks in 1978 and 2006 (99/ha and 89/ha respectively) and lows in 1986 and 1993 (1/ha both years) (Figure 6). Coastwide seasonal mean lengths were variable and fluctuated between 55 and 92 mm TL (Figure 7).

Atlantic Croaker seasonal catch rates (February-May) varied from peaks in 1982 and 1986 (995/ha and 1,021/ha respectively) to a low of 37/ha in 1989, however, the catch rate has been increasing over several years and reached 1,003/ha in 2015 (Figure 6). Coastwide seasonal mean lengths show slight variation and fluctuated between 48 and 59 mm TL (Figure 7).

Brown shrimp (*Farfantepenaeus aztecus*) seasonal catch rates (April-July) increased; the lowest catch rate of 665/ha was recorded in 1979 and the highest of 1,822/ha in 2010; (Figure 8). Coastwide seasonal mean lengths ranged between 55 and 63 mm TL (Figure 9).

White shrimp (*Litopenaeus setiferus*) seasonal catch rates (July-November) were variable; the record high was 2,952/ha in 1982 and the lowest was 278/ha in 2000 (Figure 8). Coastwide seasonal mean lengths fluctuated between 51 and 60 mm TL ((Figure 9).

Blue crab seasonal catch rates (March-June) were variable and decreased from peaks in 1985 and 1991 (172/ha and 161/ha respectively) to a record low in 2013 (28/ha) (Figure 8). Coastwide seasonal mean lengths decreased and fluctuated between 24 and 29 mm (Figure 9).

Bay Trawl

Atlantic Croaker annual coastwide catch rates in bay trawls increased and ranged from 28/h in 1985 to 139/h in 2015 (Table 4; Figure 10). Coastwide mean lengths for Atlantic Croaker in bay trawls ranged from 75 mm TL in 1982 to 130 mm TL in 2009 (Table 4; Figure 11).

Total finfish bay trawl catch rates increased considerably and ranged from 134/h in 1984 to 458/h in 2015 ($R^2 = 0.50$) (Table 4). Coastwide mean lengths for total finfish remained relatively stable since 1983 with an average of 118 mm TL (Table 4).

Brown shrimp bay trawl catch rates were variable and ranged from 13/h in 1999 to 66/h in 2015 (Table 4; Figure 10). Coastwide mean length decreased from 97 mm TL in 1983 to 77 mm TL in 2008; however, the mean length increased since then (Table 4; Figure 11).

White shrimp bay trawl catch rates varied and ranged from 98/h in 2007 to 12/h in 2014 (Table 4; Figure 10). The mean total length of white shrimp increased slightly and ranged from 84 mm TL in 1994 to 106 mm TL in 2012 (Table 4; Figure 11).

Pink shrimp (*Farfantepenaeus duorarum*) bay trawl catch rates varied and ranged from 2003 with 0.47/h in 1982 to 5.40/h in 1995 (Table 4). Mean lengths were relatively stable and ranged from 104 mm TL in 1986 to 82 mm TL in 2006 (Table 4).

Blue crab bay trawl catch rates increased from 1982 to 1992, when they peaked at 25/h; however, catch rates consistently decreased later on to a record low of 1.79/h in 2013 (Table 4; Figure 10). Coastwide mean length (measured as carapace width) varied and ranged from 64 mm in 1995 and 2014 to 104 mm in 2007 (Table 4; Figure 11).

Gulf Trawl

Atlantic Croaker coastwide Gulf trawl catch rates increased from 21/h in 1985 to 495/h in 2008 ($R^2 = 0.51$) (Table 5; Figure 12). The coastwide mean length of Atlantic Croaker in Gulf trawls ranged from 143 mm TL in 1985 to 107 mm TL in 2008 (Table 5; Figure 13).

Gulf Menhaden catch rates in Gulf trawls increased in general and ranged from 0.66/h in 1989 to 15/h in 2012 (Table 5). Coastwide mean length of Gulf Menhaden in Gulf trawls ranged from 87 mm TL in 1988 to 154 mm TL in 2007 (Table 5).

Red Snapper Gulf trawl catch rates increased and ranged from 0.30/h in 1986 and 1987 to 8/h in 2006 (Table 5). Coastwide mean length of juvenile Red Snapper in Gulf trawls remained relatively stable, with an average of 94 mm TL, and ranged from 81 mm TL in 1992 to 111 mm TL in 2011 (Table 5).

Coastwide Gulf trawl catch rates of total finfish increased considerably and have ranged from 186/h in 1985 to 776/h in 2008 ($R^2 = 0.59$) (Table 5). Coastwide mean length of total finfish ranged from 104 mm TL in 1995 to 124 mm TL in 2011 (Table 5).

Brown shrimp catch rates in Gulf trawls ranged from 59/h in 1989 to 5/h in 1996 with an overall average of 18/h (Table 5; Figure 12). The coastwide mean length decreased from 109 mm TL in 1985 to 88 mm TL in 2008 and 2016 ($R^2 = 0.68$) (Table 5; Figure 13).

White shrimp Gulf catch rates increased from 10/h in 1990 and 1994 to 58/h in 2008 and had varied since then with an average of 33/h (Table 5; Figure 12). The coastwide mean length ranged from 104 mm TL in 2005 to 121 mm TL in 2014 (Table 5, Figure 13).

Pink shrimp catch rates in Gulf trawls were variable and ranged from 3.72/h in 1993 and 1994 to 0.62/h in 2014 (Table 5). The coastwide mean length for pink shrimp in Gulf trawls ranged from 117 mm in 1985 to 127 mm TL in 2011 (Table 5).

Blue crab catch rates decreased from 5.67/h in 1991 to a record low of 0.22 in 2013, catch rates have increased slightly since then (Table 5, Figure 12). Coastwide mean length (measured as carapace width) in Gulf trawls were variable and decreased from 127 mm in 1985 to 54 mm in 2004, then increased to 126 mm in 2009 and decreased again to 69 mm in 2013 (Table 5; Figure 13).

Oyster Dredge

Coastwide catch rates of Eastern oyster (*Crassostrea virginica*) spat were variable and ranged from 387/h in 1984 to 15,772/h in 2014 (Table 6; Figure 14).

Coastwide catch rates of small size Eastern oysters varied from 940/h in 1986 to 816/h in 2007 (Table 6; Figure 14). Coastwide mean lengths ranged from 46 mm TL to 54 mm TL (Table 6; Figure 15).

Coastwide catch rates of market size Eastern oysters varied from 207/h in 1990 to 1,239/h in 2000 (Table 6; Figure 14). Coastwide mean lengths were relatively stable and ranged from 87 to 93 mm TL (Table 6; Figure 15).

Hydrological Data

Hydrological data varied among years, bay systems and Gulf areas (Appendix B). Salinity measurements taken while conducting samplings varied, however, had a slight trend to increase. Coastwide annual salinity ranges were from 10.6 to 29.6 ppt in spring gill nets, 15.6 to 36.4 ppt in fall gill nets, 16.1 to 29.9 ppt in bag seines, 8.8 to 30.1 ppt in bay trawls, 28.5 to 33.3 ppt in Gulf trawls, and 10.9 to 27.7 ppt in oyster dredges (Appendix B; Tables B.1, 4, 7, 10, and 13).

Coastwide annual water temperatures, taken while conducting samplings, had a wide range however, there was a clear increase. Temperatures recorded while conducting spring gillnets ranged from 24.7 °C in 1977 to 28.3 °C during 2002 and 2003. Measurements during fall gill nets ranged from 20.9 in 1975 to 28.1 °C in 2016. Measurements taken while conducting bag seines ranged from 21.6 °C in 1977 to 24.9 °C in 1999 and 2012. (Appendix B; Tables B.2 and B.5). Temperatures taken while conducting bay trawls also indicate an increase trend and ranged from 21.3 in 1989 to 23.8 °C in 2012 and 2016. Gulf trawl temperatures show a similar trend since 1987 and ranged from 21.1 °C in 1989 to 23.4 °C in 2016 (Appendix B; Tables B.11 and B.14).

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TABLE 1.—Mean catch rates (No./h) and mean total lengths (mm) of selected fishes and blue crab caught with gill nets (all meshes combined) by bay system during spring 1976-2016. Blank indicates no measurement taken; ND = no data.

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red Drum																				
1976	ND		0.05	310	ND		0.99	429	1.00	409	0.96	451	0.61	412	0.13	509	1.17	458	0.66	436
1977	ND		0.29	451	0.17	418	0.36	458	0.38	392	0.40	399	0.70	470	0.07	438	0.51	442	0.36	438
1978	ND		0.14	463	0.33	442	0.40	470	0.15	400	0.21	436	0.26	447	0.27	486	0.47	479	0.27	462
1979	ND		0.19	478	0.12	460	0.35	441	0.30	434	0.41	426	0.25	487	0.18	476	0.30	450	0.27	450
1980	ND		0.76	448	0.39	434	1.13	387	0.67	402	0.42	375	0.86	432	0.75	416	0.63	440	0.74	417
1981	ND		0.31	436	0.20	456	0.37	445	0.57	388	0.45	399	0.27	425	0.37	423	1.10	442	0.48	426
1982	ND		0.86	479	0.44	434	0.50	426	0.35	408	0.41	430	0.51	469	0.30	495	1.01	501	0.59	467
1983	ND		0.87	491	0.99	475	0.64	413	0.66	404	0.49	386	0.39	427	0.22	479	0.77	482	0.63	450
1984	ND		0.93	481	0.69	452	0.12	430	0.16	514	0.30	419	0.85	457	0.32	433	0.66	515	0.51	473
1985	ND		0.63	539	0.49	520	0.21	457	0.15	464	0.39	463	0.55	457	0.34	506	0.62	507	0.43	501
1986	0.39	527	1.35	502	0.79	458	0.84	464	0.63	454	0.56	400	0.70	466	0.29	473	0.95	493	0.81	476
1987	0.22	516	0.55	498	0.63	501	0.85	469	0.67	450	0.66	463	0.62	463	0.43	516	1.10	496	0.67	481
1988	0.32	499	0.67	497	0.86	473	0.73	434	1.11	483	0.50	436	0.57	496	0.56	550	1.16	506	0.74	486
1989	0.45	481	0.66	478	1.74	495	0.58	458	0.72	451	0.70	444	0.52	468	0.36	544	0.91	522	0.67	481
1990	0.53	520	0.53	529	0.81	568	0.38	483	0.33	478	0.48	491	1.02	505	0.24	537	0.81	533	0.53	515
1991	0.46	582	0.26	548	0.54	533	0.27	495	0.29	448	0.45	472	0.92	475	0.34	546	1.16	516	0.49	507
1992	0.69	471	1.20	467	2.10	464	1.30	394	1.31	434	1.59	416	1.16	480	0.72	546	1.46	497	1.27	456
1993	0.43	529	1.11	530	2.61	510	0.85	428	1.56	448	1.22	463	1.10	509	0.63	555	1.28	511	1.13	492
1994	0.36	508	0.46	536	1.61	526	0.57	470	1.34	468	1.19	476	0.55	529	0.77	572	1.87	549	0.93	515
1995	0.53	457	0.67	488	2.32	521	0.92	460	1.45	449	0.82	446	0.59	488	0.40	568	0.90	542	0.86	485
1996	1.17	541	1.43	524	4.41	528	1.13	484	2.00	483	2.14	477	1.45	500	0.55	547	0.68	513	1.45	504
1997	0.51	511	1.43	515	3.18	533	0.65	468	1.05	472	1.65	480	1.32	504	0.36	495	1.21	516	1.17	501
1998	0.90	522	1.27	521	4.74	536	1.28	473	1.15	423	1.30	455	1.22	461	0.86	505	1.03	510	1.29	490
1999	0.44	508	0.97	516	3.61	528	0.49	462	0.85	457	0.90	450	0.65	472	0.56	504	0.82	509	0.86	493
2000	0.53	567	0.58	524	2.31	528	0.51	456	0.58	443	1.04	466	0.76	491	0.55	541	0.65	516	0.72	498
2001	0.72	521	1.21	525	3.88	564	0.70	497	0.47	446	0.99	450	1.28	506	0.76	530	0.79	505	1.00	509
2002	0.74	486	1.23	500	1.96	512	0.70	423	1.05	422	1.15	432	0.79	468	0.48	534	0.75	481	0.94	469
2003	0.54	508	1.33	542	2.62	495	1.00	468	1.28	462	0.95	438	1.44	486	0.38	521	1.33	501	1.15	494
2004	0.79	542	0.66	537	2.49	526	0.99	473	1.05	466	1.39	478	1.42	495	0.69	525	1.63	520	1.11	503
2005	0.60	538	0.73	544	2.78	530	0.73	442	1.09	449	1.07	466	1.31	478	0.88	529	1.13	504	1.00	495
2006	0.64	522	0.55	517	1.46	488	0.57	440	1.61	471	1.04	437	0.59	437	0.83	512	1.26	521	0.90	483
2007	1.59	475	1.45	465	2.06	503	0.72	440	1.61	463	1.31	475	0.89	454	0.50	533	1.51	555	1.22	484
2008	0.94	480	1.33	503	2.34	506	0.76	441	1.26	436	0.82	413	0.85	456	0.58	532	1.08	544	1.03	483
2009	1.52	523	1.57	526	2.05	475	0.61	404	1.65	428	1.34	418	0.86	440	0.74	536	0.80	537	1.18	478
2010	3.37	505	1.73	498	2.18	496	0.43	432	0.99	442	0.59	459	0.94	463	0.58	508	1.06	505	1.10	485
2011	2.27	519	1.83	538	3.58	490	0.52	467	0.57	437	0.77	434	0.77	489	0.68	533	0.73	545	1.08	507

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red Drum (cont.)																				
2012	2.03	519	1.95	511	4.04	513	0.78	462	1.04	442	0.97	441	1.16	459	0.60	537	0.79	505	1.25	491
2013	1.48	518	1.35	520	2.34	468	0.79	423	1.07	436	0.76	438	0.46	447	0.90	539	0.63	531	1.00	486
2014	2.33	523	2.04	539	3.14	496	0.52	440	1.14	417	0.72	441	0.82	469	0.52	563	0.89	537	1.17	503
2015	1.04	549	0.97	508	3.54	517	1.10	512	0.91	416	0.58	414	0.86	449	0.81	510	0.96	494	0.99	490
2016	0.72	505	1.28	518	2.22	515	0.36	441	0.94	443	0.75	412	0.61	447	1.04	509	1.16	490	0.94	485
Spotted Seatrout																				
1976	ND		0.05	530	ND		0.27	422	0.50	383	3.30	470	0.35	365	0.04	405	3.42	457	1.10	455
1977	ND		0.16	516	1.94	435	0.27	418	1.21	385	0.97	414	0.31	384	1.26	442	1.55	422	0.80	421
1978	ND		0.16	523	0.37	453	0.52	420	1.40	409	0.32	448	0.48	454	0.89	463	1.18	512	0.64	458
1979	ND		0.17	515	0.38	439	0.31	472	0.21	430	0.35	503	0.39	510	0.45	449	0.66	511	0.34	488
1980	ND		0.09	433	0.64	414	0.50	426	0.88	403	0.23	473	0.26	496	0.43	477	1.07	520	0.47	463
1981	ND		0.36	496	1.41	417	0.32	406	0.62	455	0.83	467	0.51	445	0.60	465	1.98	481	0.74	465
1982	ND		0.43	493	0.96	462	0.51	460	0.78	445	0.71	436	0.82	499	0.81	497	2.48	535	0.89	495
1983	ND		0.44	510	1.72	443	0.66	460	0.77	450	0.64	448	0.65	480	0.67	517	1.30	506	0.74	482
1984	ND		0.33	498	0.69	477	0.26	438	0.29	484	0.23	436	0.24	477	0.03	481	0.70	474	0.32	473
1985	ND		0.55	508	0.54	474	0.34	426	0.32	466	0.36	431	0.40	472	0.14	426	1.40	523	0.51	489
1986	0.28	481	0.55	453	0.95	441	0.50	443	0.42	426	0.43	430	1.01	467	0.43	458	1.54	526	0.67	472
1987	0.19	399	0.61	453	0.72	449	0.43	439	0.39	448	0.53	457	0.96	481	0.39	496	1.95	537	0.71	485
1988	0.19	388	0.67	471	0.78	476	0.53	431	0.50	446	0.51	457	0.82	480	0.40	508	1.59	524	0.70	481
1989	0.15	441	0.55	490	0.52	494	0.52	433	0.62	477	0.59	472	0.76	489	0.41	514	1.08	515	0.61	486
1990	0.13	442	0.49	461	0.58	515	0.26	433	0.56	486	0.52	445	1.10	463	0.21	477	1.34	484	0.59	469
1991	0.08	466	0.50	451	0.28	496	0.36	431	0.79	464	0.97	473	0.95	464	0.56	481	1.94	505	0.78	476
1992	0.15	406	0.68	449	0.43	511	0.45	440	0.39	449	0.67	446	1.30	471	0.60	533	1.89	496	0.78	474
1993	0.33	415	0.52	460	0.52	501	0.63	430	0.66	479	0.59	456	1.06	445	0.51	508	1.97	485	0.78	468
1994	0.26	407	0.69	464	0.74	500	0.69	426	0.76	442	0.91	457	0.96	462	0.83	477	1.90	507	0.91	470
1995	0.11	462	0.73	465	0.45	490	0.40	431	0.96	451	0.65	446	0.95	482	0.63	452	1.03	475	0.71	461
1996	0.19	411	0.68	440	0.54	515	0.61	414	1.35	440	0.98	429	0.84	460	0.51	496	1.33	496	0.83	454
1997	0.22	429	0.89	456	0.94	474	0.84	456	1.23	459	0.93	431	1.18	460	0.73	450	1.40	455	0.96	453
1998	0.66	420	0.98	450	0.68	520	0.90	451	1.85	429	1.04	464	1.00	467	0.73	476	0.93	448	1.01	452
1999	0.39	445	0.81	438	1.11	502	0.84	431	1.16	450	1.00	476	0.90	468	0.90	487	1.17	457	0.93	458
2000	0.25	447	0.86	454	1.07	459	0.73	429	1.31	441	1.09	462	0.63	455	0.79	499	0.91	462	0.89	456
2001	0.61	431	1.20	455	0.93	488	0.96	440	0.82	442	1.16	434	0.72	448	0.85	454	1.51	463	1.03	450
2002	0.37	464	0.99	460	0.69	478	0.65	444	1.28	465	1.12	454	1.06	449	0.56	449	0.88	471	0.89	458
2003	0.26	441	0.99	476	0.91	493	0.87	435	1.51	464	0.94	454	1.08	493	0.66	470	1.15	469	0.98	466
2004	0.34	481	0.68	471	1.09	489	0.94	438	0.91	457	1.13	496	1.04	459	0.88	499	1.08	458	0.90	470
2005	0.37	419	0.85	466	0.82	500	0.83	438	1.17	453	0.77	482	0.86	465	0.85	501	1.10	480	0.88	469
2006	0.63	441	0.61	460	0.95	481	0.83	441	0.94	456	0.63	474	1.09	486	0.83	486	0.77	486	0.78	468
2007	0.61	454	1.44	473	1.40	467	0.76	436	0.70	472	0.94	461	0.88	446	0.65	482	1.35	471	1.00	465

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spotted Seatrout (cont.)																				
2008	0.45	457	0.90	458	0.65	519	0.60	436	0.81	467	0.63	458	0.81	457	0.69	503	1.19	487	0.79	469
2009	0.32	466	0.69	486	0.71	495	0.53	430	0.69	464	0.44	449	0.77	485	0.68	493	1.07	509	0.67	479
2010	0.58	443	0.68	473	0.76	478	0.86	405	0.80	447	0.45	433	0.84	445	0.69	473	0.85	473	0.72	452
2011	0.60	449	0.93	467	1.20	470	0.89	415	0.98	441	0.85	437	0.81	451	1.30	483	1.24	511	0.98	462
2012	0.42	454	0.88	476	1.51	467	0.69	419	1.15	446	0.51	436	1.02	467	1.04	486	1.21	519	0.90	470
2013	0.99	472	0.79	492	0.81	481	0.55	452	1.42	485	0.69	455	1.04	485	0.93	511	1.51	509	0.94	488
2014	0.64	479	1.04	464	0.88	500	0.51	435	1.06	452	0.88	453	1.03	452	1.08	476	1.22	486	0.95	465
2015	0.61	449	1.22	471	0.82	507	0.39	414	0.86	440	0.49	440	1.10	461	1.43	491	1.50	480	0.96	467
2016	0.61	428	1.15	471	0.75	497	0.68	423	1.48	457	0.74	469	1.35	458	1.39	468	1.59	506	1.12	469
Black Drum																				
1976	ND		0.19	310	ND		0.81	418	1.00	306	0.87	389	0.61	360	0.54	352	0.92	387	0.67	367
1977	ND		0.41	388	0.31	262	0.63	454	0.70	314	0.93	312	0.36	357	0.43	377	0.85	429	0.60	376
1978	ND		0.31	411	0.35	346	0.31	343	0.08	308	0.36	360	0.35	343	0.37	428	1.47	419	0.45	395
1979	ND		0.22	292	0.66	328	0.41	414	0.20	459	0.34	332	0.15	392	0.29	386	0.75	411	0.35	381
1980	ND		0.28	316	0.92	304	0.84	363	0.47	273	0.94	310	0.23	356	0.58	385	0.38	442	0.54	343
1981	ND		0.79	418	0.59	323	0.29	301	0.39	346	0.81	362	0.14	370	0.96	391	0.82	391	0.63	381
1982	ND		0.58	345	0.62	296	0.53	364	0.71	324	1.09	301	0.44	339	0.67	382	1.22	402	0.74	352
1983	ND		0.86	346	2.78	366	0.63	357	0.60	331	1.22	340	0.89	365	0.99	398	1.59	431	1.02	372
1984	ND		0.62	374	0.95	390	0.16	368	0.18	458	0.14	556	0.48	415	0.54	442	0.56	457	0.41	418
1985	ND		0.50	348	0.39	316	0.22	480	0.08	422	0.23	396	0.20	342	0.78	375	0.45	376	0.37	376
1986	0.24	374	0.53	385	0.64	344	0.32	402	0.11	314	0.35	316	0.57	372	0.63	418	0.36	458	0.41	388
1987	0.10	400	0.45	375	0.57	323	0.38	366	0.22	393	0.53	384	0.45	457	1.10	445	0.45	450	0.49	408
1988	0.13	417	0.44	379	0.76	376	0.42	390	0.37	354	0.37	375	0.79	423	0.67	397	0.31	453	0.46	394
1989	0.25	328	0.58	336	1.87	380	0.38	412	0.33	357	0.57	370	0.40	408	1.00	423	0.44	406	0.56	384
1990	0.15	377	0.52	372	1.43	402	0.76	347	0.29	333	0.65	336	0.59	412	1.46	412	0.69	413	0.69	382
1991	0.29	319	0.55	357	1.47	353	0.81	359	0.46	297	1.04	312	0.39	365	3.01	384	1.15	375	1.00	360
1992	0.19	370	0.52	370	1.34	389	0.37	339	0.79	391	0.74	339	1.56	380	2.94	368	2.31	397	1.17	375
1993	0.28	362	0.36	378	0.36	345	0.35	371	1.85	441	1.55	417	3.09	412	2.36	374	2.25	401	1.39	403
1994	0.35	380	0.37	415	0.14	363	0.59	419	1.18	492	1.03	470	2.08	428	4.23	404	3.45	430	1.55	428
1995	0.17	334	0.36	382	0.27	335	0.89	420	0.68	395	1.03	447	0.95	454	4.00	423	1.80	443	1.20	426
1996	0.47	380	0.55	375	0.28	375	0.65	391	1.20	396	1.07	385	1.46	472	3.26	450	2.70	497	1.34	440
1997	0.35	407	0.54	377	0.44	373	0.91	406	2.00	434	1.74	415	1.03	471	3.29	414	1.13	500	1.32	425
1998	0.49	385	0.42	368	0.20	343	0.65	412	1.52	412	1.32	390	1.08	442	4.18	383	0.53	479	1.18	398
1999	0.30	355	0.53	342	0.31	350	0.68	368	1.32	399	1.25	396	0.70	418	4.29	385	0.65	487	1.17	390
2000	0.60	376	0.68	368	0.27	333	0.73	388	1.32	368	1.32	369	0.90	408	2.96	419	0.69	471	1.10	394
2001	0.59	338	0.91	356	0.82	293	0.97	367	2.35	383	2.21	363	0.91	404	4.00	422	1.56	465	1.66	393
2002	0.61	348	0.57	394	1.43	362	1.07	384	2.03	373	1.27	382	1.85	415	3.06	433	0.44	482	1.30	401
2003	0.52	378	0.74	372	1.35	367	0.98	391	1.65	399	1.32	395	0.79	435	4.03	423	0.50	473	1.30	406

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black Drum (cont.)																				
2004	0.61	379	0.39	403	1.21	401	0.73	403	2.02	427	1.59	434	0.46	432	4.91	434	0.45	515	1.33	430
2005	0.84	386	0.31	400	0.55	397	0.71	413	1.48	452	1.65	442	0.39	408	4.63	460	0.23	498	1.18	444
2006	0.86	415	0.36	414	0.50	444	0.54	389	0.91	434	1.15	447	0.79	405	3.33	467	0.96	572	1.02	457
2007	0.79	351	0.51	346	1.22	330	0.64	404	1.15	376	0.85	381	0.76	380	3.49	385	0.49	457	1.03	383
2008	0.85	351	0.34	357	0.48	362	1.01	354	1.19	366	1.20	346	1.13	402	3.05	376	0.91	431	1.12	374
2009	0.92	372	0.82	372	0.49	380	0.86	408	1.83	411	2.02	399	0.91	399	4.39	409	0.65	469	1.47	404
2010	0.87	386	0.55	355	0.36	365	0.79	385	1.57	411	2.18	390	1.33	411	5.17	431	0.55	459	1.50	409
2011	0.84	407	0.42	383	1.82	436	0.46	341	1.09	396	0.95	386	1.03	403	4.49	398	0.72	457	1.18	399
2012	0.53	401	0.72	402	0.46	398	1.05	408	1.11	437	1.05	393	1.13	428	3.89	405	1.37	504	1.31	421
2013	0.85	391	0.45	389	0.74	405	1.04	358	1.02	368	1.24	381	0.97	387	5.26	415	1.10	459	1.39	401
2014	0.64	405	0.44	405	0.59	430	0.62	354	1.16	414	1.31	400	1.36	423	4.51	392	1.35	456	1.32	404
2015	0.37	392	0.58	421	0.90	432	0.62	391	0.49	423	0.96	353	0.97	438	6.02	409	1.41	449	1.37	411
2016	0.38	371	0.37	389	0.73	439	0.65	387	0.23	441	0.44	368	0.67	564	6.12	418	1.44	472	1.22	427
Sheepshead																				
1976	ND		0		ND		0.09	420	0.33	341	0.61	342	0		0.27	367	0.33	318	0.22	345
1977	ND		0.02	339	0.02	234	0.14	268	0.10	308	0.03	233	0.18	272	0.11	380	0.07	336	0.08	303
1978	ND		0		0.37	304	0.06	271	0.06	313	0.18	335	0.17	350	0.14	395	0.17	353	0.11	340
1979	ND		0.01	305	0.07	296	0.04	391	0.17	339	0.16	324	0.64	344	0.08	369	0.15	340	0.14	342
1980	ND		0.04	338	0.31	347	0.13	339	0.05	320	0.17	342	0.19	327	0.19	369	0.25	339	0.14	342
1981	ND		0.03	393	0.12	326	0.02	453	0.55	328	0.33	346	0.12	316	0.15	389	0.53	325	0.22	338
1982	ND		0.08	332	0.02	356	0.06	330	0.14	356	0.04	326	0.25	343	0.17	361	0.56	324	0.17	336
1983	ND		0.10	313	0.39	311	0.10	373	0.14	372	0.11	349	0.34	370	0.23	390	0.42	341	0.20	354
1984	ND		0.14	352	0.26	353	0.05	387	0.21	397	0.03	401	0.16	380	0.07	385	0.17	348	0.12	370
1985	ND		0.04	352	0.21	373	0.03	337	0.04	409	0.03	382	0.14	424	0.04	427	0.10	353	0.06	382
1986	0.008	372	0.04	372	0.16	356	0.03	369	0.07	417	0.01	305	0.06	388	0.04	427	0.07	370	0.05	382
1987	0.001	364	0.04	370	0.16	314	0.04	340	0.03	447	0.03	342	0.04	350	0.03	403	0.21	386	0.06	373
1988	0		0.02	405	0.08	351	0.04	357	0.05	342	0.07	348	0.10	371	0.03	407	0.09	369	0.05	366
1989	0.004	529	0.06	384	0.32	323	0.04	371	0.04	379	0.05	350	0.17	410	0.02	371	0.17	371	0.08	373
1990	0.010	364	0.02	378	0.31	364	0.05	400	0.04	448	0.03	372	0.23	383	0.04	358	0.09	396	0.07	385
1991	0.042	354	0.04	381	0.20	343	0.02	359	0.03	491	0.01	304	0.03	367	0.04	406	0.10	389	0.04	382
1992	0.005	290	0.03	342	0.11	360	0.06	367	0.06	415	0.02	347	0.12	436	0.04	434	0.16	379	0.06	390
1993	0.018	343	0.02	379	0.16	360	0.06	408	0.05	355	0.03	399	0.07	422	0.03	426	0.07	394	0.05	393
1994	0.010	353	0.03	374	0.15	413	0.04	372	0.04	338	0.03	344	0.03	435	0.01	429	0.08	375	0.04	376
1995	0.028	309	0.02	389	0.12	428	0.10	407	0.27	360	0.10	363	0.32	445	0.01	426	0.10	372	0.11	392
1996	0.023	362	0.04	383	0.21	438	0.15	403	0.53	400	0.09	367	0.15	450	0.03	397	0.05	371	0.13	402
1997	0.014	395	0.04	387	0.11	393	0.11	377	0.30	392	0.13	373	0.07	392	0.05	445	0.12	366	0.11	385
1998	0.016	353	0.03	384	0.11	365	0.13	395	0.33	395	0.18	371	0.11	411	0.08	395	0.10	350	0.12	385
1999	0.026	365	0.02	368	0.15	399	0.11	404	0.20	408	0.14	343	0.16	426	0.04	411	0.12	395	0.10	393

TABLE 1.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sheepshead (cont.)																					
2000	0.015	404	0.03	385	0.31	420	0.28	408	0.36	393	0.17	339	0.12	400	0.03	431	0.06	382	0.14	391	
2001	0.030	407	0.06	396	0.08	406	0.09	410	0.32	386	0.12	349	0.17	393	0.04	396	0.06	361	0.11	385	
2002	0.011	403	0.02	375	0.20	419	0.19	419	0.27	416	0.08	352	0.16	393	0.04	389	0.12	376	0.11	400	
2003	0.018	346	0.05	410	0.19	417	0.20	413	0.27	419	0.28	382	0.45	407	0.03	406	0.11	352	0.17	400	
2004	0.029	404	0.04	396	0.13	394	0.04	391	0.19	415	0.11	409	0.11	416	0.04	416	0.18	356	0.09	395	
2005	0.005	398	0.02	424	0.11	414	0.07	421	0.20	436	0.14	397	0.08	454	0.07	426	0.35	361	0.12	400	
2006	0.008	415	0.01	389	0.12	438	0.04	417	0.27	427	0.15	421	0.14	438	0.04	435	0.10	383	0.09	420	
2007	0.010	397	0.04	366	0.09	409	0.03	357	0.32	432	0.09	358	0.11	415	0.02	451	0.17	395	0.10	403	
2008	0.031	348	0.01	400	0.18	427	0.19	380	0.19	398	0.10	369	0.09	423	0.02	443	0.07	398	0.09	393	
2009	0.015	311	0.02	362	0.12	384	0.22	367	0.25	386	0.10	367	0.16	408	0.04	432	0.06	393	0.11	381	
2010	0.007	356	0.03	367	0.10	393	0.04	401	0.19	396	0.08	398	0.09	401	0.03	405	0.11	382	0.07	391	
2011	0.021	337	0.03	370	0.17	396	0.02	379	0.27	401	0.10	341	0.22	405	0.09	417	0.17	357	0.11	384	
2012	0.012	408	0.09	384	0.16	391	0.07	354	0.20	342	0.15	393	0.14	373	0.19	358	0.15	358	0.13	367	
2013	0.018	444	0.07	420	0.37	377	0.10	373	0.17	384	0.08	373	0.12	380	0.26	361	0.24	372	0.14	378	
2014	0.014	388	0.05	403	0.28	379	0.04	395	0.27	382	0.05	355	0.24	390	0.09	393	0.54	406	0.16	394	
2015	0.020	396	0.11	403	0.18	373	0.39	405	0.20	408	0.03	346	0.05	395	0.23	405	0.14	393	0.16	401	
2016	0.020	389	0.03	389	0.15	377	0.03	360	0.08	382	0.11	346	0.11	397	0.18	416	0.32	376	0.11	382	
Southern Flounder																					
1976	ND		0		ND		0		0.08	335	0		0		0		0.17	350	0.03	345	
1977	ND		0.01	351	0.10	358	0.04	346	0.03	272	0.07	341	0.06	408	0		0.04	345	0.04	348	
1978	ND		0.02	249	0.08	336	0.03	330	0.06	279	0.03	334	0.10	342	0.07	372	0.09	345	0.05	329	
1979	ND		0.01	451	0.10	346	0.07	286	0.08	371	0.04	293	0.13	373	0.06	335	0.18	365	0.07	349	
1980	ND		0.12	358	0.17	344	0.09	321	0.03	302	0.07	291	0.09	323	0.07	389	0.10	369	0.09	344	
1981	ND		0.04	284	0.04	350	0.03	292	0.07	306	0.02	368	0.07	332	0.15	360	0.08	348	0.06	332	
1982	ND		0.07	343	0.05	292	0.05	307	0.05	302	0.07	299	0.07	363	0.07	337	0.12	350	0.07	331	
1983	ND		0.07	366	0.06	318	0.06	327	0.04	331	0.04	329	0.07	388	0.09	359	0.12	372	0.07	357	
1984	ND		0.07	338	0.06	388	0.03	317	0.04	321	0.04	310	0.10	377	0.02	344	0.02	355	0.05	342	
1985	ND		0.06	349	0.14	349	0.04	346	0.06	329	0.05	347	0.09	354	0.09	346	0.10	336	0.07	344	
1986	0.02	294	0.05	345	0.16	331	0.04	361	0.05	316	0.05	357	0.05	395	0.07	354	0.12	371	0.06	355	
1987	0.03	364	0.05	338	0.08	330	0.04	304	0.08	345	0.03	339	0.03	333	0.06	407	0.05	401	0.05	354	
1988	0.03	292	0.06	367	0.07	349	0.05	354	0.04	350	0.04	334	0.04	350	0.05	400	0.04	360	0.05	359	
1989	0.01	288	0.06	347	0.13	362	0.03	318	0.04	317	0.04	340	0.01	381	0.01	402	0.05	392	0.04	349	
1990	0.02	309	0.04	351	0.09	361	0.03	354	0.02	351	0.03	313	0.04	347	0.01	333	0.05	405	0.03	355	
1991	0.01	329	0.05	322	0.14	369	0.04	321	0.05	348	0.05	327	0.07	344	0.14	363	0.10	361	0.07	347	
1992	0.01	332	0.06	371	0.09	366	0.03	352	0.02	373	0.02	355	0.04	377	0.01	438	0.05	394	0.04	375	
1993	0.01	364	0.04	360	0.06	395	0.02	369	0.04	357	0.02	417	0.05	398	0.01	453	0.03	349	0.03	375	
1994	0.01	334	0.03	343	0.08	378	0.03	327	0.04	362	0.02	332	0.03	362	0.02	332	0.03	380	0.03	352	
1995	0.02	315	0.02	331	0.07	400	0.02	369	0.04	369	0.03	370	0.03	398	0.01	362	0.01	379	0.03	367	

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern Flounder (cont.)																				
1996	0.04	369	0.05	371	0.12	380	0.04	360	0.03	381	0.07	377	0.03	392	0.01	341	0.03	402	0.04	374
1997	0.01	275	0.06	341	0.03	383	0.03	301	0.01	328	0.03	362	0.04	353	0.03	368	0.06	364	0.04	345
1998	0.03	335	0.07	373	0.10	372	0.07	350	0.04	344	0.05	334	0.04	364	0.01	395	0.04	378	0.05	359
1999	0.02	337	0.04	366	0.12	385	0.03	327	0.03	408	0.03	330	0.03	404	0.01	444	0.04	400	0.03	374
2000	0.03	355	0.03	344	0.10	374	0.04	344	0.06	372	0.04	364	0.04	369	0.02	383	0.04	418	0.04	368
2001	0.01	313	0.03	376	0.07	390	0.03	348	0.01	404	0.03	356	0.02	360	0.02	439	0.04	410	0.03	378
2002	0.02	294	0.04	346	0.10	329	0.05	340	0.05	334	0.03	340	0.05	331	0.02	387	0.03	368	0.04	343
2003	0.05	317	0.05	377	0.04	361	0.04	337	0.05	368	0.04	381	0.03	417	0.01	415	0.05	414	0.04	376
2004	0.04	337	0.07	366	0.07	378	0.02	353	0.03	340	0.04	380	0.03	362	0.01	410	0.01	439	0.03	367
2005	0.03	358	0.05	360	0.03	410	0.03	315	0.04	378	0.03	364	0.03	380	0.003	340	0.04	385	0.03	362
2006	0.02	332	0.03	355	0.02	397	0.02	335	0.03	364	0.01	341	0.02	380	0.01	366	0.04	404	0.03	366
2007	0.02	327	0.03	370	0.05	440	0.003	401	0.01	413	0.01	395	0.004	497	0.002	420	0		0.01	394
2008	0.03	314	0.04	351	0.03	333	0.02	364	0.03	361	0.02	348	0.02	416	0.05	387	0.05	393	0.03	368
2009	0.02	374	0.04	365	0.05	369	0.01	371	0.02	355	0.04	379	0.01	401	0.02	363	0.01	440	0.02	375
2010	0.02	340	0.03	344	0.03	380	0.01	328	0.01	361	0.01	368	0.03	403	0.01	489	0.01	280	0.02	364
2011	0.07	363	0.03	337	0.06	378	0.05	333	0.05	368	0.05	359	0.04	400	0.02	426	0.05	390	0.04	366
2012	0.04	342	0.07	382	0.07	432	0.02	374	0.04	368	0.05	385	0.02	404	0.04	385	0.04	402	0.04	385
2013	0.04	353	0.04	340	0.04	370	0.01	358	0.01	340	0.01	401	0.01	441	0.02	412	0.03	426	0.02	373
2014	0.02	382	0.03	342	0.05	409	0.01	341	0.02	362	0.01	323	0.02	395	0.01	457	0.01	388	0.02	367
2015	0.02	310	0.03	340	0.06	367	0.02	335	0.03	318	0.03	314	0.04	342	0.06	391	0.04	398	0.03	354
2016	0.01	320	0.03	324	0.02	426	0.01	328	0.02	310	0.02	321	0.03	380	0.03	414	0.02	377	0.02	351
Atlantic Croaker																				
1976	ND		0.24	298	ND		0.09		0.167	332	0		1.04	277	0		0.75	333	0.29	307
1977	ND		0.32	268	0.09	255	0		0.041	246	0.03	270	0.71	264	0.39	296	0.21	269	0.22	272
1978	ND		0.08	253	0.02	260	0.01	293	0.010	250	0.03	258	0.10	294	0.16	279	0.10	276	0.06	274
1979	ND		0.23	264	0.03	251	0.03	263	0		0.01		0.12	271	0.23	294	0.18	306	0.12	281
1980	ND		0.09	264	0.08	250	0		0.029	256	0.03	247	0.11	273	0.21	312	0.19	293	0.09	286
1981	ND		0.13	264	0.04	250	0.02	276	0		0.07	289	0.14	266	0.31	301	0.09	277	0.10	282
1982	ND		0.18	267	0.08	262	0.02	270	0.016	265	0.03	261	0.11	285	0.21	313	0.36	354	0.13	313
1983	ND		0.27	269	0.13	278	0.02	273	0.007	278	0.01	286	0.17	272	0.15	289	0.35	322	0.15	290
1984	ND		0.12	265	0.01	323	0.02	225	0.012	298	0.02	260	0.01	262	0.02	305	0.02	284	0.04	267
1985	ND		0.19	269	0.02	318	0.01	260	0.004	185	0.01	115	0.07	265	0.19	267	0.10	261	0.09	265
1986	0.10	257	0.37	271	0.07	250	0.02	245	0.003	250	0.004	292	0.28	255	0.20	297	0.07	289	0.14	274
1987	0.04	263	0.20	260	0.03	242	0.02	237	0.002	268	0.01	246	0.04	280	0.03	319	0.02	251	0.06	263
1988	0.11	258	0.08	265	0.04	220	0.03	278	0		0.003	261	0.08	261	0.06	337	0.004	296	0.04	277
1989	0.08	271	0.07	264	0.05	280	0.004	250	0		0.001	262	0.03	284	0.02	342	0.004	283	0.02	275
1990	0.02	278	0.11	269	0.14	265	0.01	268	0.011	283	0.02	277	0.04	267	0.01	245	0.04	272	0.04	269
1991	0.06	300	0.11	263	0.04	256	0.02	237	0.005	239	0.01	252	0.07	263	0.03	270	0.08	267	0.05	264

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Atlantic Croaker (cont.)																				
1992	0.08	263	0.16	253	0.16	269	0.01	257	0	0.01	232	0.10	264	0.04	291	0.07	266	0.07	261	
1993	0.05	289	0.18	256	0.10	260	0.01	237	0.007	277	0.04	267	0.07	265	0.05	295	0.08	272	0.07	264
1994	0.06	299	0.10	267	0.07	272	0.01	266	0.005	263	0.02	257	0.10	279	0.04	329	0.04	300	0.05	281
1995	0.04	278	0.15	262	0.11	282	0.00	289	0.005	276	0.02	273	0.06	300	0.02	382	0.001	321	0.05	276
1996	0.07	268	0.31	279	0.10	255	0.01	250	0.054	275	0.03	262	0.07	294	0.02	355	0.01	273	0.09	279
1997	0.06	278	0.14	267	0.14	281	0.02	249	0.015	271	0.08	263	0.06	298	0.05	283	0.06	284	0.07	273
1998	0.02	255	0.41	266	0.32	278	0.04	249	0.056	265	0.02	266	0.19	281	0.07	302	0.04	269	0.14	270
1999	0.14	270	0.26	262	0.12	277	0.01	261	0.043	264	0.05	269	0.08	289	0.13	306	0.05	310	0.11	275
2000	0.14	270	0.39	284	0.10	285	0.05	281	0.026	251	0.04	267	0.04	260	0.09	295	0.02	310	0.12	283
2001	0.08	270	0.29	275	0.11	280	0.01	252	0.013	275	0.03	261	0.04	266	0.06	296	0.09	301	0.09	279
2002	0.09	279	0.27	266	0.19	271	0.03	261	0.026	251	0.12	259	0.17	272	0.03	305	0.02	342	0.11	269
2003	0.09	274	0.27	255	0.18	275	0.01	250	0.008	285	0.05	256	0.04	280	0.05	281	0.02	293	0.09	261
2004	0.07	286	0.30	263	0.17	276	0.00	278	0.035	277	0.09	267	0.02	271	0.07	314	0.04	289	0.10	271
2005	0.05	268	0.27	273	0.26	291	0.01	272	0	0.04	274	0.02	270	0.01	262	0.01	288	0.08	275	
2006	0.23	267	0.25	265	0.13	297	0.01	247	0.046	264	0.02	272	0.10	276	0.04	268	0.02	292	0.09	269
2007	0.05	276	0.14	265	0.12	285	0.01	287	0.006	272	0.01	261	0.04	264	0.05	303	0.02	336	0.05	276
2008	0.13	278	0.31	263	0.11	294	0.01	211	0.006	254	0.02	246	0.05	259	0.04	283	0.01	287	0.09	265
2009	0.18	267	0.31	267	0.12	265	0.01	245	0	0.003	264	0.02	248	0.07	290	0.02	309	0.09	269	
2010	0.15	266	0.17	261	0.11	276	0.01	272	0.006	270	0	0.03	249	0.03	283	0.002	277	0.05	264	
2011	0.36	268	0.33	259	0.20	272	0.00	181	0.014	251	0.02	248	0.04	262	0.08	269	0.07	276	0.12	263
2012	0.19	275	0.30	274	0.15	289	0.02	257	0.004	249	0.01	240	0.05	252	0.13	279	0.01	273	0.10	274
2013	0.39	275	0.32	260	0.20	285	0.00	245	0.013	259	0.01	247	0.05	254	0.01	304	0.01	265	0.10	264
2014	0.18	272	0.27	258	0.18	287	0.01	186	0.005	270	0.01	280	0.05	242	0.04	272	0.03	270	0.09	261
2015	0.20	272	0.30	263	0.26	305	0.01	282	0.004	235	0.002	265	0.07	269	0.07	283	0.03	286	0.10	270
2016	0.12	274	0.22	257	0.25	274	0.02	259	0.011	248	0.02	245	0.02	270	0.05	291	0.04	306	0.08	265
Gafftopsail Catfish																				
1976	ND		6.23	504	ND		0.54	494	2.33	454	0	0	0	0	0	0	0	0	1.77	494
1977	ND		0.18	480	0.43	506	0.67	557	2.54	533	3.59	513	0	0	0	0	0	0	0.96	523
1978	ND		0.22	539	0.06	546	0.86	543	1.85	495	0.30	548	0.71	535	0	0	0	0	0.51	521
1979	ND		0.23	522	0.36	535	0.32	553	0.40	531	0.43	547	0.23	550	0	0	0	0	0.24	540
1980	ND		0.15	512	0.19	560	0.40	554	0.93	548	0.31	552	0.09	598	0	0	0	0	0.26	547
1981	ND		0.14	513	0.24	482	0.70	541	0.54	541	1.41	541	0.13	521	0.009	577	0	0	0.42	538
1982	ND		0.41	510	0.18	510	0.45	546	1.45	532	0.92	535	0.26	531	0.008	534	0.003	372	0.49	530
1983	ND		0.22	542	0.04	475	0.32	537	1.94	519	0.95	538	0.12	536	0.037	575	0	0	0.48	530
1984	ND		0.20	527	0.02	580	1.04	527	1.16	519	0.53	549	0.18	532	0.002	472	0.001	211	0.43	528
1985	ND		0.26	533	0.04	467	0.42	501	0.74	533	0.13	557	0.09	507	0.003	413	0.010	388	0.24	524
1986	0.15	489	0.42	507	0.28	467	0.29	533	0.50	555	0.37	529	0.37	534	0.002	374	0	0	0.28	526
1987	0.02	509	0.43	553	0.12	506	0.22	540	0.11	565	0.16	567	0.24	550	0.002	532	0.002	518	0.18	551

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gafftopsail Catfish (cont.)																				
1988	0.08	538	0.21	511	0.12	531	0.54	528	0.29	563	0.24	563	0.17	548	0	0.004	429	0.21	537	
1989	0.04	494	0.36	536	0.08	535	0.55	525	0.40	554	0.10	569	0.09	533	0	0.002	536	0.23	537	
1990	0.04	518	0.83	510	0.16	460	0.75	534	0.59	556	0.42	544	0.39	555	0	0		0.45	530	
1991	0.003	520	0.22	504	0.19	527	0.55	528	0.64	505	0.45	561	0.37	515	0.003	546	0.006	454	0.30	523
1992	0.04	519	0.15	522	0.20	556	0.29	531	0.58	578	0.12	559	0.21	530	0	0.002	508	0.18	550	
1993	0.003	457	0.52	489	0.25	582	0.45	543	0.79	562	0.25	574	0.16	503	0	0.010	405	0.32	533	
1994	0.01	518	0.10	495	0.20	569	0.79	535	1.21	559	0.21	561	0.20	557	0	0		0.33	547	
1995	0.02	508	0.37	499	0.31	543	0.33	518	0.77	549	0.22	572	0.07	529	0	0.002	210	0.26	531	
1996	0.01	377	0.36	495	0.12	569	0.48	493	0.58	534	0.24	532	0.17	518	0	0.008	456	0.26	511	
1997	0.03	465	0.38	518	0.24	557	0.28	504	1.41	526	0.28	506	0.34	524	0.001	422	0.007	444	0.35	520
1998	0.10	515	0.47	523	0.31	575	0.82	512	0.88	536	0.20	507	0.07	502	0.004	514	0.002	235	0.36	522
1999	0.16	504	0.56	496	0.53	572	0.82	537	0.40	546	0.12	504	0.20	515	0.002	331	0.011	451	0.33	522
2000	0.11	492	0.64	476	0.43	554	0.86	527	0.93	529	0.19	504	0.11	513	0	0.011	438	0.41	511	
2001	0.30	488	0.40	472	0.80	549	1.18	508	0.39	539	0.15	509	0.22	504	0	0.042	488	0.38	506	
2002	0.09	481	0.46	511	0.32	572	1.08	529	0.99	515	0.23	516	0.18	503	0	0.012	484	0.42	520	
2003	0.29	508	1.05	506	0.57	550	0.84	544	0.80	534	0.20	533	0.23	508	0.005	506	0.010	489	0.50	523
2004	0.27	504	0.67	488	0.48	552	0.57	510	0.99	507	0.30	529	0.31	509	0.012	519	0.010	382	0.43	505
2005	0.08	523	0.64	493	0.51	544	0.85	511	0.66	529	0.26	540	0.27	515	0.002	489	0.082	494	0.42	512
2006	0.44	492	0.73	503	0.56	549	0.98	500	0.91	513	0.35	520	0.29	503	0	0.038	526	0.50	507	
2007	0.52	508	0.65	491	0.72	536	1.03	502	1.58	513	0.31	520	0.31	533	0.003	502	0.084	480	0.58	507
2008	0.47	478	1.14	494	0.44	556	1.15	499	1.40	489	0.56	512	0.43	508	0.005	494	0.039	468	0.70	497
2009	0.32	501	0.90	481	0.92	538	2.51	476	1.26	491	0.52	478	0.54	514	0.003	618	0.031	485	0.85	484
2010	0.36	474	0.74	488	0.46	531	1.49	480	1.46	501	0.40	480	0.52	479	0.033	412	0.043	443	0.66	487
2011	0.71	516	1.35	478	0.68	509	1.97	472	1.44	485	0.76	486	0.48	483	0.030	504	0.089	479	0.93	481
2012	0.27	533	0.78	509	0.63	527	1.73	493	1.13	501	0.73	492	0.55	472	0.032	503	0.087	471	0.72	498
2013	0.55	524	1.29	512	1.21	510	2.01	482	2.03	488	1.25	490	0.88	498	0.088	539	0.200	484	1.12	495
2014	0.39	506	1.51	502	0.83	503	1.80	453	1.60	497	1.80	487	0.89	502	0.085	516	0.247	510	1.14	488
2015	0.15	478	1.08	485	0.75	517	0.94	480	1.94	497	1.21	484	0.73	496	0.060	513	0.117	466	0.85	489
2016	0.29	504	1.30	495	0.75	533	1.44	490	1.96	487	0.92	492	0.87	470	0.058	491	0.069	476	0.95	491
Gulf Menhaden																				
1976	ND		0.19	261	ND		0.09	250	0.08	275	0		0		0			0.07	261	
1977	ND		2.44	251	0.667	301	0.05	245	0.15	253	1.73	259	1.81	254	0.04	282	0.01	229	0.99	255
1978	ND		0.25	242	0.010	194	0.12	245	1.24	264	0		0.12	264	0.92	263	0.01	246	0.34	259
1979	ND		1.04	250	0.013	373	0.11	251	0.01	132	0.02	241	0.12	255	0.12	259	0.01	259	0.27	250
1980	ND		0.01	193	0		0.02	252	0.14	261	0.01	271	0.01	257	0.52	269	0.05	252	0.09	264
1981	ND		0.36	260	0		0.16	255	0.10	252	0.17	255	0.14	243	0.08	242	0.07	244	0.17	254
1982	ND		0.44	253	0		0.02	248	0.29	254	0.14	249	0.04	250	0.40	269	0.04	301	0.21	258
1983	ND		0.81	242	0		0.19	251	0.22	242	0.11	244	0.06	249	0.08	301	0.08	254	0.27	247

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf Menhaden (cont.)																				
1984	ND		0.55	255	0		0.11	250	0.20	279	0.23	250	0.10	257	0.03	284	0.02	265	0.21	257
1985	ND		0.83	253	0.004	282	0.38	239	0.26	244	0.37	245	0.64	250	0.03	244	0.74	270	0.48	252
1986	0.07	279	1.29	247	0.004	226	0.09	242	0.09	244	0.19	245	0.41	266	0.02	252	0.03	253	0.36	249
1987	0.003	348	1.14	238	0.012	227	0.03	241	0.004	226	0.003	226	0.09	245	0.02	240	0.06	253	0.26	238
1988	0.01	278	0.15	244	0		0.20	243	0.02	278	0.05	236	0.09	253	0.01	257	0.05	290	0.08	249
1989	0.04	269	1.53	246	0		0.05	232	0.01	226	0.003	187	0.07	235	0		0		0.34	245
1990	0.02	270	1.72	237	0.004	237	0.06	216	0.02	263	0.04	255	0.02	237	0.01	308	0.01	239	0.38	237
1991	0.01	253	0.30	251	0		0.07	216	0.06	238	0.02	281	0.07	257	0.02	251	0.02	241	0.09	247
1992	0.04	266	0.74	257	0		0.02	207	0.01	245	0.08	250	0.10	274	0.003	252	0.01	279	0.18	257
1993	0.01	256	1.58	244	0		0.07	257	0.003	217	0		0.03	242	0.002	312	0.01	282	0.35	244
1994	0.06	267	0.49	259	0		0.05	235	0.04	254	0.02	262	0.05	253	0.003	238	0.01	295	0.12	258
1995	0.05	275	0.26	259	0.014	252	0.30	253	0.20	253	0.06	267	0.003	207	0		0.06	269	0.14	257
1996	0.03	256	0.39	249	0.008	241	0.15	241	0.02	269	0.02	243	0.02	253	0.001	238	0.02	307	0.11	249
1997	0.05	265	0.25	248	0.008	246	0.20	231	0.07	242	0.18	260	0.18	249	0.01	248	0.05	298	0.14	249
1998	0.09	276	0.88	254	0.004	268	0.10	242	0.18	257	0.06	246	0.01	255	0		0.01	314	0.23	254
1999	0.12	256	0.37	256	0		0.06	251	0.02	250	0.04	254	0.04	256	0.01	240	0.01	255	0.10	255
2000	0.59	273	0.37	248	0.008	247	0.04	246	0.06	243	0.10	246	0.03	244	0.01	240	0.03	259	0.13	252
2001	0.10	275	0.23	253	0.008	244	0.07	242	0.14	251	0.13	250	0.13	228	0.06	261	0.07	245	0.12	250
2002	0.25	269	0.53	257	0.009	254	0.09	252	0.10	255	0.16	247	0.11	247	0.04	311	0.12	255	0.19	256
2003	0.09	277	1.06	249	0.060	261	0.10	274	0.27	252	0.14	239	0.12	256	0.07	281	0.003	297	0.31	252
2004	0.15	285	0.18	247	0.004	256	0.06	212	0.08	236	0.04	238	0.12	244	0.02	251	0.02	283	0.08	245
2005	0.05	322	1.72	247	0.134	228	0.19	247	0.09	248	0.01	251	0.10	249	0.02	239	0.03	314	0.42	248
2006	0.26	267	0.76	244	0.061	225	0.18	244	0.30	238	0.22	247	0.20	239	0.02	251	0.002	222	0.28	244
2007	0.23	257	0.43	242	0.006	239	0.15	211	0.05	235	0.07	236	0.07	251	0.02	252	0.03	295	0.15	240
2008	0.22	275	0.38	237	0		0.04	245	0.08	247	0.13	245	0.37	256	0.11	257	0.01	340	0.17	247
2009	0.37	262	0.34	258	0.028	233	0.44	233	0.09	240	0.02	253	0.06	244	0.02	265	0.01	275	0.17	247
2010	0.18	255	0.18	257	0.012	263	0.08	238	0.04	244	0.02	265	0.74	232	0.02	304	0.01	495	0.13	247
2011	0.15	256	0.87	240	0.346	174	0.12	250	0.08	253	0.09	244	0.21	232	0.14	298	0.04	282	0.27	243
2012	0.29	254	0.53	231	0.121	241	0.15	230	0.02	246	0.06	250	0.05	244	0.01	269	0.02	247	0.17	235
2013	0.09	255	0.24	232	0.026	220	0.06	227	0.04	223	0.03	232	0.18	241	0.003	268	0.01	249	0.09	233
2014	0.05	242	0.37	227	0.077	245	0.03	220	0.19	219	0.21	219	0.41	230	0.01	231	0.02	236	0.17	226
2015	0.09	249	0.20	244	0.008	213	0.15	220	0.05	235	0.20	233	0.20	232	0.01	228	0.01	241	0.12	234
2016	0.01	240	0.37	229	0.007	271	0.11	237	0.05	253	0.09	230	0.13	240	0.06	261	0.03	313	0.13	237
Striped Mullet																				
1976	ND		0.09	385	ND		0.18	323	0.17	338	0.61	366	0		0.04	375	0		0.16	357
1977	ND		0.15	322	0		0.17	314	0.70	319	0.53	319	0.33	406	0.16	368	0.20	345	0.29	333
1978	ND		0.04	315	0.09	327	0.32	338	0.20	334	0.23	327	0.19	360	0.09	345	0.14	345	0.16	338
1979	ND		0.16	320	0.12	331	0.26	345	0.68	347	0.14	338	0.06	334	0.15	383	0.09	354	0.21	345

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped Mullet (cont.)																				
1980	ND		0.08	328	0.04	338	0.33	335	0.21	331	0.08	340	0.07	330	0.16	373	0.23	353	0.16	342
1981	ND		0.03	327	0.04	345	0.05	325	0.06	334	0.13	335	0.09	321	0.23	354	0.18	356	0.10	343
1982	ND		0.17	344	0.18	308	0.17	326	0.21	330	0.17	333	0.22	345	0.15	359	0.27	363	0.19	343
1983	ND		0.23	351	0.13	346	0.13	346	0.19	341	0.22	341	0.07	355	0.26	367	0.23	368	0.20	353
1984	ND		0.16	344	0.15	338	0.21	328	0.18	337	0.37	338	0.11	338	0.57	368	0.50	366	0.29	351
1985	ND		0.21	339	0.24	340	0.30	332	0.12	328	0.25	340	0.12	338	0.21	380	0.12	339	0.20	343
1986	0.05	326	0.17	350	0.15	321	0.16	330	0.09	328	0.15	336	0.09	340	0.07	368	0.12	342	0.13	341
1987	0.02	312	0.16	366	0.12	320	0.16	343	0.24	349	0.25	355	0.11	336	0.13	402	0.20	379	0.17	361
1988	0.04	327	0.11	344	0.19	333	0.11	323	0.21	349	0.09	343	0.11	350	0.14	371	0.14	365	0.12	348
1989	0.02	323	0.18	349	0.40	337	0.18	337	0.14	356	0.15	356	0.06	344	0.12	400	0.10	371	0.15	355
1990	0.04	325	0.22	341	0.31	342	0.34	347	0.20	357	0.22	340	0.15	340	0.44	386	0.39	360	0.27	356
1991	0.01	325	0.08	347	0.19	341	0.21	347	0.18	344	0.33	347	0.09	343	0.15	387	0.12	379	0.16	354
1992	0.01	310	0.15	351	0.26	343	0.30	341	0.20	342	0.41	356	0.19	355	0.22	389	0.20	375	0.23	357
1993	0.01	331	0.13	359	0.31	373	0.24	333	0.31	349	0.41	357	0.12	356	0.20	381	0.13	354	0.21	355
1994	0.06	343	0.10	347	0.14	381	0.30	343	0.25	360	0.20	369	0.10	365	0.21	387	0.18	383	0.18	363
1995	0.02	341	0.27	357	0.18	367	0.49	348	0.33	366	0.24	366	0.10	359	0.20	405	0.08	376	0.25	363
1996	0.11	336	0.27	348	0.14	349	0.21	352	0.27	355	0.18	365	0.10	361	0.23	386	0.09	364	0.20	358
1997	0.04	344	0.20	362	0.16	342	0.37	362	0.33	352	0.34	349	0.10	374	0.63	426	0.08	384	0.28	377
1998	0.07	327	0.19	352	0.27	360	0.25	341	0.22	359	0.18	363	0.08	373	0.27	409	0.10	398	0.19	365
1999	0.04	337	0.22	340	0.18	370	0.23	354	0.67	373	0.24	355	0.06	371	0.26	418	0.06	386	0.24	367
2000	0.13	331	0.12	378	0.19	392	0.14	356	0.15	361	0.22	360	0.03	371	0.44	408	0.04	360	0.16	377
2001	0.03	345	0.20	358	0.32	352	0.45	365	0.29	363	0.28	346	0.08	357	0.24	414	0.05	390	0.23	366
2002	0.05	330	0.24	350	0.15	356	0.27	346	0.15	345	0.18	359	0.10	378	0.15	429	0.04	398	0.17	360
2003	0.04	326	0.17	356	0.18	353	0.27	350	0.42	354	0.16	356	0.12	390	0.34	439	0.14	412	0.22	375
2004	0.04	320	0.20	347	0.29	351	0.39	340	0.19	367	0.22	373	0.16	383	0.18	416	0.16	397	0.22	364
2005	0.07	320	0.19	343	0.10	348	0.39	349	0.34	351	0.31	352	0.08	382	0.16	410	0.08	386	0.22	356
2006	0.08	333	0.12	347	0.08	368	0.16	347	0.24	362	0.19	360	0.04	388	0.59	409	0.23	382	0.20	377
2007	0.02	340	0.19	352	0.11	370	0.25	346	0.20	348	0.13	355	0.04	383	0.40	439	0.10	386	0.18	376
2008	0.02	338	0.14	343	0.08	373	0.15	333	0.13	347	0.10	354	0.05	353	0.19	441	0.05	382	0.12	365
2009	0.08	327	0.16	361	0.09	358	0.07	343	0.12	341	0.12	341	0.03	343	0.23	409	0.11	403	0.12	369
2010	0.05	326	0.05	363	0.07	366	0.13	332	0.12	348	0.10	356	0.10	358	0.45	426	0.07	396	0.13	383
2011	0.10	324	0.16	345	0.19	337	0.11	334	0.11	350	0.10	348	0.05	364	0.28	441	0.20	400	0.15	376
2012	0.01	344	0.08	367	0.12	338	0.17	334	0.11	351	0.09	361	0.07	365	0.37	432	0.06	379	0.13	380
2013	0.09	335	0.10	340	0.04	345	0.09	340	0.11	339	0.07	359	0.08	359	0.19	408	0.06	384	0.10	362
2014	0.10	337	0.20	378	0.06	330	0.07	337	0.11	341	0.09	339	0.07	351	0.31	399	0.07	385	0.13	371
2015	0.01	343	0.06	367	0.06	349	0.07	345	0.07	347	0.10	345	0.07	345	0.31	410	0.07	391	0.10	376
2016	0.02	343	0.08	352	0.14	341	0.08	332	0.08	344	0.10	337	0.05	361	0.44	391	0.08	371	0.12	363

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes																				
1976	ND		10.95	432	ND		5.15	393	7.58	394	9.48	415	6.17	332	1.12	378	7.08	419	7.25	408
1977	ND		8.72	316	4.28	396	5.09	457	7.78	421	9.73	408	7.06	326	3.82	366	4.27	395	6.73	378
1978	ND		4.19	370	2.14	367	4.39	437	7.81	411	2.39	418	4.01	375	4.71	375	5.12	418	4.50	400
1979	ND		5.90	365	2.31	394	3.86	414	3.58	452	2.92	434	2.94	391	2.53	361	2.95	409	3.72	398
1980	ND		4.78	389	3.79	356	5.08	428	5.02	403	3.18	397	2.63	386	3.44	372	4.67	411	4.23	399
1981	ND		4.41	376	4.23	364	4.83	432	5.95	423	5.96	431	2.91	365	4.18	366	6.20	411	4.94	404
1982	ND		8.20	392	4.38	378	5.33	448	6.80	419	5.78	407	4.59	407	4.56	375	8.66	406	6.44	406
1983	ND		9.04	381	7.72	385	4.59	431	7.15	418	5.59	404	5.41	395	4.94	383	7.45	410	6.60	399
1984	ND		6.17	398	3.59	401	4.22	455	5.61	447	3.91	438	4.85	399	3.25	381	4.57	413	4.73	417
1985	ND		7.57	407	3.75	414	4.90	472	4.07	491	3.54	459	5.03	379	3.70	359	5.15	398	5.06	421
1986	4.91	459	9.26	392	5.41	384	4.99	452	3.50	431	3.22	418	5.77	385	2.77	390	5.20	442	5.33	413
1987	1.97	528	8.62	395	4.31	389	4.01	442	2.88	426	3.44	438	3.70	425	2.97	424	6.01	440	4.81	420
1988	2.52	481	6.76	400	4.61	413	4.52	418	4.80	451	2.98	436	6.33	409	3.24	415	5.38	451	4.86	423
1989	2.55	485	9.21	385	7.57	400	5.10	436	6.50	453	4.27	417	4.48	405	2.77	430	4.63	436	5.61	416
1990	2.53	498	10.66	393	8.05	416	6.54	449	6.19	465	5.12	421	6.83	416	3.53	404	5.22	427	6.58	420
1991	3.15	504	6.99	399	11.83	379	6.37	421	6.10	447	6.02	406	5.78	409	5.31	393	7.25	426	6.42	413
1992	2.58	448	8.55	409	8.87	422	6.40	413	5.89	448	7.19	421	7.02	414	5.62	414	8.38	432	7.05	420
1993	2.35	483	9.93	407	8.75	461	7.03	428	8.70	468	6.94	458	9.23	418	4.75	424	8.34	435	7.79	433
1994	2.69	450	6.70	406	6.72	469	7.20	431	8.97	446	7.18	452	7.35	428	7.60	418	10.21	454	7.55	435
1995	2.34	471	8.35	409	7.37	478	7.94	410	9.98	425	6.87	420	6.80	418	7.07	416	6.44	436	7.49	420
1996	5.11	505	8.12	406	9.17	464	8.29	408	11.16	427	8.33	416	7.43	433	5.85	441	7.04	446	7.93	426
1997	2.72	474	6.42	432	7.61	480	6.13	412	10.44	442	8.52	415	6.77	437	6.22	403	5.74	449	6.88	430
1998	4.89	461	8.17	412	9.32	469	7.95	419	9.36	416	6.97	414	6.40	414	7.44	410	4.30	439	7.26	419
1999	3.52	454	6.83	402	8.20	468	7.17	418	9.02	429	5.91	402	4.26	420	7.67	412	4.03	433	6.42	418
2000	5.76	442	6.74	396	7.21	449	6.56	432	8.53	425	6.93	400	3.89	426	6.63	422	3.64	435	6.26	418
2001	4.38	453	8.56	416	10.89	464	8.93	421	7.36	415	7.14	386	5.24	423	7.35	414	5.93	426	7.40	417
2002	4.14	433	8.51	413	7.64	422	8.44	420	10.01	416	7.41	399	6.17	403	5.30	422	3.85	428	7.12	414
2003	4.13	457	10.16	420	9.85	426	7.14	426	9.98	425	6.42	406	6.39	434	6.83	406	4.90	436	7.56	422
2004	3.93	459	7.34	426	9.26	451	6.69	444	8.70	432	7.74	448	6.33	444	8.77	418	5.17	447	7.16	436
2005	4.06	464	8.23	402	9.58	450	6.93	412	8.98	438	7.34	458	6.04	436	8.56	439	5.19	439	7.33	430
2006	6.86	445	8.44	411	8.08	425	6.66	423	11.89	443	7.42	441	6.21	417	7.35	441	6.37	451	7.75	431
2007	5.96	443	8.46	412	9.49	442	6.47	440	9.78	442	6.84	451	6.22	409	6.38	418	6.40	452	7.32	433
2008	5.45	436	8.45	411	7.22	453	6.82	415	9.26	416	6.69	423	6.91	399	6.95	414	5.35	440	7.18	418
2009	6.13	491	9.09	446	6.89	434	9.21	413	10.14	434	7.88	404	6.51	409	9.06	423	5.52	447	8.18	429
2010	7.72	486	8.73	448	8.36	437	6.83	428	7.97	442	5.57	439	7.00	413	8.63	436	6.27	471	7.40	442
2011	8.28	472	9.62	421	11.405	421	6.65	412	7.60	427	6.00	423	6.08	426	9.59	411	4.74	455	7.54	424
2012	6.35	491	10.99	429	11.04	435	7.43	428	7.56	431	6.09	429	7.25	430	8.61	415	6.13	452	8.00	432
2013	6.85	475	10.11	446	8.55	431	7.20	414	9.80	447	7.74	413	6.77	417	9.60	438	7.11	433	8.40	434
2014	7.84	530	10.05	446	8.59	435	5.49	429	8.54	450	7.31	430	7.68	418	8.00	422	8.02	444	8.00	440

TABLE 1.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes (cont.)																				
2015	4.30	526	7.80	433	8.52	445	5.56	444	6.71	434	5.38	412	7.26	418	10.07	425	6.47	439	6.90	433
2016	4.29	533	8.14	449	7.51	446	6.34	423	8.20	450	6.35	438	7.00	432	11.34	423	6.92	437	7.54	439
Blue crab																				
1983	ND		0.18	151	0.34	154	0.07	151	0.26	142	0.26	142	0.18	151	0.05	158	0.157	145	0.17	147
1984	ND		0.17	150	0.37	139	0.12	142	0.21	137	0.21	142	0.31	147	0.30	145	0.167	142	0.21	144
1985	ND		0.29	149	0.45	151	0.17	144	0.27	136	0.22	141	0.20	149	0.12	141	0.238	155	0.23	146
1986	0.22	146	0.32	152	0.59	132	0.18	140	0.08	135	0.14	144	0.07	154	0.02	147	0.068	148	0.17	145
1987	0.26	152	0.25	138	0.32	138	0.12	138	0.14	140	0.05	155	0.09	151	0.04	137	0.063	142	0.13	141
1988	0.29	154	0.14	148	0.06	159	0.03	135	0.05	141	0.05	150	0.08	145	0.02	115	0.060	152	0.08	147
1989	0.23	157	0.13	137	0.45	128	0.03	136	0.03	128	0.03	131	0.01	149	0.01	72	0.014	147	0.06	136
1990	0.18	154	0.17	141	0.26	129	0.04	138	0.16	136	0.13	135	0.16	139	0.01	114	0.104	139	0.12	138
1991	0.07	141	0.19	132	0.45	135	0.16	144	0.14	136	0.08	144	0.14	140	0.03	105	0.118	152	0.14	138
1992	0.11	151	0.15	154	0.12	135	0.05	144	0.06	132	0.06	142	0.26	150	0.36	146	0.074	146	0.13	147
1993	0.16	161	0.08	144	0.23	162	0.10	147	0.06	148	0.06	152	0.15	148	0.11	147	0.049	136	0.09	149
1994	0.06	155	0.04	144	0.08	160	0.04	143	0.05	134	0.02	149	0.06	158	0.04	102	0.031	129	0.04	139
1995	0.07	164	0.05	148	0.30	165	0.04	151	0.004	161	0.01	167	0.03	152	0.01	130	0.012	107	0.04	153
1996	0.16	150	0.09	136	0.19	152	0.05	138	0.03	163	0.02	151	0.03	161	0.03	141	0.054	149	0.06	145
1997	0.06	152	0.24	149	0.34	150	0.12	155	0.02	141	0.02	153	0.04	152	0.02	114	0.065	140	0.10	149
1998	0.15	162	0.11	149	0.19	158	0.09	155	0.07	160	0.03	151	0.03	152	0.07	162	0.056	130	0.08	153
1999	0.14	143	0.07	146	0.17	158	0.04	155	0.06	153	0.05	159	0.06	158	0.07	162	0.021	177	0.07	155
2000	0.12	157	0.03	155	0.05	164	0.02	163	0.02	146	0.02	154	0.01	156	0.01	150	0.002	31	0.02	154
2001	0.07	146	0.03	154	0.13	151	0.01	149	0.01	159	0.03	155	0.03	127	0.01	97	0.013	122	0.03	145
2002	0.12	146	0.09	148	0.27	155	0.06	149	0.07	152	0.03	159	0.04	151	0.01	139	0.005	135	0.06	150
2003	0.17	157	0.08	143	0.91	153	0.10	147	0.11	161	0.08	154	0.27	160	0.19	158	0.119	150	0.16	154
2004	0.21	152	0.34	62	0.40	156	0.13	154	0.02	153	0.03	145	0.05	154	0.07	172	0.007	157	0.13	106
2005	0.41	161	0.08	114	0.04	153	0.06	154	0.03	162	0.01	152	0.04	155	0.03	156	0.006	251	0.05	147
2006	0.18	152	0.17	154	0.12	159	0.08	160	0.05	154	0.03	155	0.04	162	0		0.002	157	0.07	155
2007	0.23	152	0.07	128	0.33	166	0.05	165	0.03	150	0.05	155	0.03	153	0.02	166	0.011	149	0.06	151
2008	0.18	159	0.10	141	0.48	159	0.17	150	0.09	151	0.08	147	0.07	162	0.09	160	0.017	168	0.11	152
2009	0.45	148	0.19	150	0.21	168	0.06	152	0.02	151	0.04	135	0.05	164	0.02	133	0.052	155	0.10	151
2010	0.32	153	0.08	142	0.19	150	0.09	147	0.05	149	0.04	126	0.03	141	0.002	87	0.015	122	0.07	144
2011	0.13	162	0.05	122	0.23	156	0.06	159	0.05	154	0.05	130	0.05	166	0.39	165	0.053	140	0.10	155
2012	0.15	162	0.11	132	0.21	142	0.07	131	0.04	133	0.01	113	0.02	155	0.01	151	0.002	120	0.06	137
2013	0.15	158	0.06	139	0.10	162	0.01	164	0.06	148	0.03	132	0.02	145	0		0.003	104	0.04	147
2014	0.13	163	0.16	145	0.34	149	0.08	142	0.05	146	0.04	136	0.02	138	0.02	61	0.003	158	0.08	144
2015	0.13	163	0.08	140	0.21	155	0.08	148	0.09	136	0.03	135	0.02	139	0.05	123	0.036	145	0.07	143
2016	0.09	149	0.23	142	0.34	159	0.10	153	0.13	157	0.13	155	0.06	155	0.07	142	0.021	158	0.13	150

TABLE 2.—Mean catch rates (No./h) and mean total lengths (mm) of selected fishes and blue crab caught with gill nets (all meshes combined) by bay system during fall 1975-2016. Blank indicates no measurement taken; ND = no data.

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Red Drum																					
1975	0.81	380	1.39	412	ND		1.10	337	1.12	333	0.92	340	0.46	335	0.36	396	0.78	480	0.94	381	
1976	ND		0.97	510	1.13	487	0.55	416	1.57	407	0.46	398	0.54	462	0.38	442	1.28	466	0.84	453	
1977	ND		0.57	446	0.92	391	0.76	435	0.94	388	0.58	401	0.44	438	0.24	364	0.39	448	0.59	419	
1978	ND		0.31	433	0.62	384	1.00	396	0.60	384	0.95	406	0.41	437	0.26	455	0.36	491	0.57	413	
1979	ND		0.74	389	0.81	422	1.29	374	1.88	379	1.05	395	0.66	366	0.41	415	0.47	441	0.92	389	
1980	ND		0.45	439	0.74	472	0.50	431	0.79	410	0.97	383	0.71	375	0.52	439	0.66	449	0.64	418	
1981	ND		0.47	439	0.64	406	0.59	392	0.69	377	0.74	405	0.56	396	0.29	516	0.76	488	0.58	426	
1982	ND		0.63	443	0.90	399	0.61	405	0.48	363	0.44	387	0.26	420	0.23	457	0.48	441	0.49	416	
1983	ND		0.63	447	0.79	401	0.49	419	0.61	408	0.40	415	0.33	443	0.19	486	0.69	507	0.51	444	
1984	ND		0.84	454	1.08	549	0.41	385	0.58	388	0.54	378	0.80	414	0.69	456	0.68	472	0.67	437	
1985	ND		0.90	425	1.22	423	0.78	407	1.24	395	0.84	438	0.71	446	0.33	463	0.91	482	0.84	432	
1986	0.40	482	0.73	469	0.86	456	0.76	407	1.17	445	0.88	461	0.47	450	0.40	486	0.91	503	0.76	460	
1987	0.44	452	0.51	460	0.93	452	0.77	380	1.04	476	0.62	459	0.40	425	0.31	526	1.43	532	0.72	471	
1988	0.46	402	0.78	446	1.50	484	0.83	429	1.14	462	0.84	478	0.51	461	0.27	520	1.33	513	0.84	469	
1989	0.37	466	0.61	500	1.12	508	0.39	402	1.09	473	0.69	443	0.57	476	0.31	533	1.05	514	0.67	482	
1990	0.36	503	0.32	489	0.77	498	0.45	409	1.06	460	0.97	475	0.84	464	0.66	551	0.99	527	0.70	486	
1991	1.04	477	0.43	393	1.01	385	0.59	407	1.31	398	0.94	439	1.47	454	0.56	515	1.54	512	0.91	448	
1992	0.48	532	0.68	482	2.02	490	0.78	428	1.42	453	1.38	437	0.97	479	0.70	506	1.34	483	1.02	467	
1993	0.33	485	0.45	483	1.90	526	0.86	439	1.57	482	1.67	500	0.95	502	0.70	555	1.38	531	1.04	499	
1994	0.61	444	0.54	440	1.88	479	0.59	449	0.95	471	0.95	470	0.62	478	0.44	568	1.17	532	0.77	482	
1995	0.62	462	0.46	475	2.14	473	0.51	419	0.66	422	0.86	459	0.59	468	0.31	523	0.89	507	0.65	467	
1996	0.83	440	0.55	454	2.24	481	0.70	454	1.00	456	1.10	469	0.50	465	0.51	507	0.99	493	0.82	470	
1997	0.81	479	0.89	470	1.96	492	1.02	415	0.98	438	1.53	492	0.85	486	0.76	508	1.62	521	1.11	479	
1998	0.58	460	0.59	452	1.15	471	1.11	430	1.54	441	1.38	455	0.62	435	0.47	457	1.28	492	0.98	453	
1999	0.54	475	0.56	468	2.20	509	0.40	448	1.02	473	1.31	483	0.66	463	0.49	498	1.06	509	0.81	483	
2000	0.66	449	0.86	518	1.14	508	0.48	406	1.15	492	1.04	483	1.13	522	0.74	543	1.44	540	0.95	505	
2001	0.72	462	0.97	454	1.84	477	0.72	416	1.29	428	0.81	467	0.69	479	0.48	510	0.89	508	0.89	460	
2002	0.98	515	1.09	502	1.43	461	1.01	408	1.41	438	1.52	475	0.88	442	0.44	476	1.30	470	1.13	464	
2003	0.69	488	0.59	492	1.49	483	1.02	435	1.33	444	1.45	490	0.78	464	0.58	510	1.49	497	1.01	476	
2004	0.49	506	0.36	470	2.10	493	0.82	430	1.34	482	1.26	477	0.70	475	0.88	511	1.70	506	0.98	482	
2005	0.94	486	0.61	470	1.52	469	0.81	431	1.31	460	1.20	458	0.79	479	0.78	517	1.28	517	0.96	475	
2006	0.74	457	0.99	427	2.02	480	0.50	412	1.70	486	1.01	470	0.63	448	0.44	525	1.29	530	0.99	472	
2007	0.99	469	0.79	452	1.85	476	0.51	408	1.11	469	1.24	482	1.07	480	0.85	535	1.70	517	1.04	482	
2008	1.72	496	1.01	486	1.41	471	0.50	428	0.70	429	0.74	424	0.51	452	0.53	508	1.29	537	0.85	479	
2009	1.41	529	0.62	463	2.23	477	0.32	415	1.44	459	1.01	442	0.64	463	0.50	537	0.93	502	0.83	473	
2010	1.35	481	0.86	470	2.20	486	0.56	420	1.23	441	0.91	463	1.15	461	0.98	535	1.39	518	1.04	479	
2011	1.18	500	0.81	473	2.71	506	0.58	416	2.53	447	0.95	476	0.93	498	0.52	526	0.84	497	1.06	473	

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red Drum (cont.)																				
2012	0.72	490	0.38	474	2.33	486	1.03	457	1.20	462	0.78	473	0.83	477	0.55	557	1.18	514	0.86	485
2013	0.60	458	0.57	489	1.67	458	0.57	434	1.04	444	0.54	437	0.70	469	0.41	538	0.71	534	0.67	473
2014	1.13	543	0.77	485	2.24	490	0.39	402	1.02	437	0.81	458	0.65	468	0.58	540	0.77	507	0.79	479
2015	0.97	512	0.65	443	1.32	479	0.79	433	0.75	420	0.97	399	1.14	426	0.70	502	1.01	473	0.86	447
2016	0.68	453	0.67	451	1.27	468	0.62	449	1.06	444	0.67	406	0.49	435	0.52	511	1.08	486	0.75	456
Spotted Seatrout																				
1975	0.11	413	0.49	454	ND		0.54	421	2.12	427	0.54	466	0.33	472	0.41	419	0.75	444	0.69	438
1976	ND		0.34	463	0.81	451	0.45	437	0.69	429	0.22	448	0.61	388	0.20	453	2.36	431	0.67	433
1977	ND		0.25	504	0.26	460	0.43	453	0.51	388	0.12	495	0.25	501	0.59	413	0.81	484	0.40	455
1978	ND		0.27	520	0.27	403	0.81	421	0.46	389	0.17	426	0.15	417	0.43	431	0.51	438	0.40	435
1979	ND		0.13	451	0.18	422	0.49	423	0.24	436	0.07	470	0.21	443	0.16	475	0.36	481	0.23	448
1980	ND		0.34	474	0.15	406	0.26	416	0.50	447	0.32	467	0.31	455	0.22	442	0.48	493	0.34	461
1981	ND		0.25	485	0.78	425	0.36	443	0.34	430	0.21	444	0.44	439	0.24	469	0.74	507	0.37	465
1982	ND		0.33	456	0.36	464	0.29	430	0.36	429	0.22	446	0.23	460	0.37	439	0.53	455	0.34	446
1983	ND		0.28	466	0.51	423	0.31	441	0.47	429	0.23	463	0.33	440	0.24	464	0.63	479	0.35	456
1984	ND		0.43	466	0.32	461	0.16	431	0.20	423	0.10	453	0.16	468	0.08	401	0.44	463	0.25	455
1985	ND		0.34	471	0.34	419	0.36	441	0.18	432	0.17	439	0.39	437	0.17	446	0.62	485	0.32	457
1986	0.16	396	0.35	438	0.42	444	0.50	423	0.39	438	0.29	445	0.41	468	0.28	460	0.96	493	0.44	456
1987	0.11	411	0.23	459	0.46	425	0.43	420	0.28	424	0.31	452	0.53	465	0.18	454	0.70	471	0.36	450
1988	0.08	422	0.55	446	0.64	439	0.25	440	0.38	439	0.26	431	0.44	447	0.22	434	0.75	482	0.41	450
1989	0.07	430	0.28	443	0.36	447	0.20	435	0.36	459	0.31	444	0.43	477	0.12	464	0.58	475	0.31	457
1990	0.04	398	0.17	463	0.55	463	0.15	428	0.23	480	0.31	459	0.48	476	0.10	500	0.48	490	0.26	470
1991	0.05	378	0.16	442	0.26	474	0.47	411	0.42	424	0.27	436	0.66	450	0.37	493	0.80	471	0.39	449
1992	0.10	392	0.32	420	0.51	453	0.40	417	0.33	437	0.38	464	0.59	465	0.54	511	0.83	452	0.45	453
1993	0.06	450	0.29	447	0.92	473	0.30	427	0.36	430	0.32	441	0.85	436	0.45	483	0.64	449	0.42	448
1994	0.10	398	0.36	435	0.78	467	0.25	417	0.45	432	0.44	441	0.59	447	0.53	450	0.63	431	0.44	438
1995	0.10	396	0.39	441	0.97	475	0.29	439	0.49	431	0.44	435	0.44	456	0.41	451	0.55	437	0.43	442
1996	0.19	405	0.60	430	0.68	492	0.32	416	0.71	430	0.67	430	0.35	460	0.62	429	0.44	437	0.53	433
1997	0.25	420	0.68	431	0.59	527	0.26	424	0.65	425	0.52	435	0.38	478	0.36	430	0.42	430	0.48	437
1998	0.19	414	0.78	419	0.49	498	0.49	457	0.56	428	0.61	445	0.34	437	0.40	454	0.62	439	0.56	438
1999	0.23	440	0.51	429	0.64	470	0.28	436	0.33	436	0.49	442	0.43	445	0.39	433	0.67	434	0.45	437
2000	0.32	418	0.45	445	0.59	445	0.41	419	0.45	436	0.36	451	0.26	477	0.27	454	0.56	469	0.41	447
2001	0.19	421	0.45	453	0.78	473	0.42	427	0.59	425	0.71	430	0.39	442	0.47	435	0.73	450	0.53	440
2002	0.36	442	0.48	471	0.52	498	0.43	410	0.49	422	0.56	434	0.68	453	0.35	434	0.55	451	0.49	445
2003	0.18	446	0.41	434	0.48	462	0.44	412	0.51	421	0.45	455	0.31	453	0.50	433	0.45	437	0.43	435
2004	0.26	424	0.60	436	0.96	476	0.37	412	0.71	433	0.63	448	0.50	460	0.45	475	0.57	450	0.56	444
2005	0.28	450	0.49	428	0.42	465	0.31	414	0.47	428	0.38	438	0.40	462	0.33	481	0.37	460	0.40	443
2006	0.28	437	0.51	454	0.76	458	0.27	406	0.49	431	0.31	442	0.41	463	0.29	460	0.36	419	0.40	442

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spotted Seatrout (cont.)																				
2007	0.36	437	0.49	448	0.57	457	0.37	404	0.49	425	0.41	432	0.41	455	0.62	452	0.90	439	0.52	439
2008	0.25	447	0.75	466	1.03	471	0.20	429	0.32	445	0.22	449	0.27	455	0.27	466	0.97	454	0.47	457
2009	0.45	456	0.55	461	0.98	453	0.21	413	0.36	426	0.21	451	0.21	460	0.18	471	0.46	465	0.36	453
2010	0.42	441	0.40	435	0.88	466	0.39	398	0.53	401	0.30	417	0.44	433	0.41	434	0.76	451	0.47	430
2011	0.25	427	0.38	447	0.72	429	0.27	399	0.54	427	0.28	468	0.47	441	0.42	448	0.66	459	0.42	442
2012	0.20	428	0.40	453	0.88	468	0.32	427	0.37	442	0.30	444	0.46	454	0.28	462	0.63	446	0.40	448
2013	0.32	437	0.48	440	0.71	469	0.23	441	0.41	444	0.28	460	0.39	447	0.33	453	0.44	468	0.38	450
2014	0.30	431	0.47	424	1.28	476	0.30	416	0.46	428	0.34	450	0.42	452	0.53	467	0.72	442	0.48	442
2015	0.21	427	0.33	433	0.52	489	0.20	411	0.45	424	0.32	438	0.43	439	0.32	454	0.68	449	0.38	439
2016	0.16	427	0.25	448	0.70	464	0.26	433	0.51	427	0.22	460	0.49	428	0.26	453	0.60	441	0.35	441
Black Drum																				
1975	0.51	294	0.47	354	ND		0.71	323	0.55	331	0.76	292	0.33	358	1.05	421	1.18	434	0.71	366
1976	ND		0.33	337	0.64	305	0.90	346	1.22	326	0.57	379	0.32	366	1.00	502	2.28	419	0.90	389
1977	ND		0.42	389	0.50	372	0.47	338	0.65	337	0.44	346	0.31	366	0.78	406	2.26	372	0.72	368
1978	ND		0.34	383	0.94	348	0.45	411	0.30	305	0.50	302	0.13	385	0.81	414	0.40	376	0.44	369
1979	ND		0.15	394	0.23	391	0.23	414	0.49	349	0.30	380	0.36	337	0.35	395	0.60	428	0.33	388
1980	ND		0.68	392	0.78	340	0.70	307	1.26	300	0.94	337	0.49	374	0.65	363	1.25	393	0.85	352
1981	ND		0.26	410	0.38	345	0.37	395	0.51	321	0.47	343	0.41	360	0.48	392	0.80	382	0.45	372
1982	ND		0.63	355	2.31	349	0.62	353	1.02	310	1.05	339	0.55	364	0.86	384	1.88	398	0.98	360
1983	ND		0.21	381	0.93	362	0.61	380	0.63	332	0.60	347	0.68	399	0.50	420	0.87	418	0.56	382
1984	ND		0.44	405	0.67	349	0.18	387	0.31	275	0.17	336	0.22	376	0.39	439	0.44	439	0.33	390
1985	ND		0.77	380	0.64	363	0.35	358	0.34	304	0.41	329	0.21	365	0.86	371	0.47	430	0.52	369
1986	0.38	366	0.67	381	0.56	303	0.59	355	0.37	342	0.49	357	0.31	388	0.53	413	0.54	441	0.52	379
1987	0.26	378	0.37	376	1.47	377	0.37	382	0.28	365	0.53	371	0.19	384	0.40	401	0.58	462	0.43	393
1988	0.20	356	0.53	383	1.26	348	0.71	345	0.95	335	0.70	334	0.70	325	1.49	372	0.61	425	0.77	360
1989	0.47	320	1.91	355	1.34	360	0.74	354	0.99	333	1.37	368	1.27	406	1.55	412	1.13	405	1.29	372
1990	0.32	343	0.41	375	0.84	371	0.54	364	0.93	324	0.96	338	0.62	400	1.04	429	0.94	420	0.73	377
1991	0.28	349	0.52	382	1.02	366	0.60	382	1.26	395	0.73	328	0.92	343	2.14	398	1.70	370	1.02	376
1992	0.42	376	0.45	402	1.11	423	0.69	400	0.56	352	0.88	375	0.81	373	1.36	374	2.23	376	0.94	380
1993	0.30	372	0.61	401	1.03	456	0.77	444	1.00	429	1.61	442	1.71	424	3.75	425	2.74	402	1.53	422
1994	0.48	372	0.52	415	0.32	442	0.68	437	0.86	453	0.89	430	0.90	433	4.88	439	2.20	436	1.36	435
1995	0.98	347	0.58	358	0.53	451	0.63	355	0.64	405	1.10	409	1.47	469	4.47	461	2.27	475	1.41	438
1996	0.65	406	0.41	382	0.48	401	0.96	394	1.41	403	1.42	414	1.31	454	4.03	453	2.13	478	1.45	436
1997	1.15	375	0.55	379	0.67	428	0.61	397	0.74	414	1.08	410	0.65	434	3.56	402	1.16	473	1.09	411
1998	0.62	350	0.48	367	0.33	415	0.89	379	1.47	366	1.22	387	0.76	422	3.20	380	1.46	441	1.20	389
1999	0.75	363	0.57	358	0.33	382	0.52	348	1.08	375	1.64	386	0.56	369	2.05	434	1.21	476	1.00	401
2000	1.56	346	0.60	376	0.20	373	0.71	367	2.03	368	2.05	400	1.28	406	3.50	410	1.13	461	1.44	397
2001	0.72	353	0.90	397	1.64	388	0.70	377	2.16	371	1.49	377	0.70	409	3.36	399	0.96	498	1.37	397

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black Drum (cont.)																				
2002	0.64	378	0.64	411	0.58	361	0.79	383	1.06	374	1.33	398	0.65	405	3.53	397	0.83	478	1.14	402
2003	0.77	383	0.42	403	0.67	403	0.73	396	1.42	402	1.10	398	0.59	411	2.44	433	0.68	504	0.96	418
2004	0.81	402	0.45	433	0.62	428	0.50	393	0.74	441	0.91	447	0.52	439	3.62	436	0.29	481	0.91	434
2005	0.91	388	0.38	381	0.64	484	0.62	393	0.91	416	0.84	450	0.53	419	4.59	444	0.44	495	1.06	433
2006	1.35	365	0.46	366	0.37	383	0.45	353	1.36	374	0.66	396	0.70	374	2.44	433	0.64	471	0.89	401
2007	0.68	358	0.43	372	0.49	367	0.31	343	0.67	399	0.76	387	0.39	364	3.77	423	1.26	445	0.97	408
2008	1.05	374	0.63	390	0.75	396	1.07	338	1.94	349	2.32	364	0.71	384	2.45	414	1.12	466	1.37	384
2009	1.20	376	0.66	363	1.24	393	0.72	357	3.14	372	2.26	400	1.32	393	4.48	407	0.83	474	1.70	393
2010	1.68	380	0.34	411	0.81	417	0.61	363	1.56	390	1.45	416	0.72	404	3.50	408	0.76	457	1.17	406
2011	0.83	428	0.65	392	0.67	432	0.58	357	1.87	389	1.30	398	0.80	394	2.79	434	1.40	484	1.21	416
2012	0.68	407	0.29	401	0.89	430	0.48	374	1.18	412	1.72	376	0.59	386	2.40	403	1.05	480	1.00	406
2013	0.79	382	0.66	408	1.03	423	0.74	364	1.50	365	1.72	345	1.06	420	4.24	388	1.20	444	1.42	387
2014	0.76	403	0.42	408	1.35	411	0.56	342	0.69	398	1.58	372	0.66	410	3.81	409	1.19	457	1.17	404
2015	0.36	414	0.42	391	1.18	417	0.43	384	0.40	430	0.76	421	0.63	442	4.46	405	1.67	436	1.12	413
2016	0.59	423	0.55	435	0.59	433	0.35	353	0.57	370	0.49	409	0.39	382	4.09	406	1.18	487	0.97	417
Sheepshead																				
1975	0		0.05	360	ND		0.06	298	0.29	320	1.25	299	0.12	377	0.75	401	0.12	365	0.34	335
1976	ND		0.04	331	0.23	308	0.15	273	0.43	329	0.92	255	0.06	328	0.22	360	0.37	341	0.30	298
1977	ND		0.04	342	0.32	316	0.07	314	0.19	321	0.49	266	0.19	335	0.22	405	0.35	356	0.21	319
1978	ND		0.05	308	0.18	316	0.09	335	0.41	372	0.56	302	0.14	360	0.25	376	0.08	300	0.21	335
1979	ND		0.05	344	0.20	351	0.13	316	0.40	358	0.63	319	0.29	333	0.17	391	0.24	355	0.25	340
1980	ND		0.10	283	0.14	322	0.02	312	0.50	296	0.56	308	0.19	362	0.14	382	0.34	328	0.25	315
1981	ND		0.03	321	0.12	277	0.18	292	0.29	335	0.21	322	0.13	344	0.09	382	0.32	331	0.17	327
1982	ND		0.07	330	0.29	330	0.07	313	0.10	296	0.19	350	0.12	365	0.16	383	0.29	330	0.14	340
1983	ND		0.03	343	0.53	345	0.10	338	0.16	301	0.13	353	0.07	361	0.17	395	0.33	341	0.15	346
1984	ND		0.05	369	0.31	383	0.03	369	0.02	427	0.02	436	0.02	383	0.10	417	0.10	333	0.06	379
1985	ND		0.04	380	0.24	379	0.04	374	0.05	363	0.04	326	0.02	353	0.02	435	0.10	369	0.05	369
1986	0.006	340	0.05	359	0.06	297	0.08	336	0.10	329	0.11	304	0.08	359	0.01	407	0.10	351	0.07	336
1987	0.009	403	0.02	382	0.09	366	0.06	352	0.09	371	0.17	358	0.07	340	0.01	386	0.17	341	0.08	355
1988	0		0.03	368	0.13	340	0.05	358	0.06	346	0.08	303	0.05	354	0.06	398	0.18	373	0.07	355
1989	0.013	299	0.06	371	0.25	343	0.02	324	0.15	340	0.09	329	0.11	361	0.03	422	0.20	371	0.09	356
1990	0.003	303	0.01	418	0.34	353	0.01	332	0.05	417	0.04	360	0.04	367	0.05	422	0.06	402	0.04	384
1991	0.011	336	0.004	435	0.09	391	0.03	359	0.05	357	0.01	353	0.04	413	0.03	446	0.11	384	0.04	386
1992	0.003	367	0.01	362	0.12	392	0.17	368	0.08	323	0.05	307	0.03	379	0.01	445	0.08	399	0.06	363
1993	0.008	329	0.03	372	0.15	389	0.11	363	0.10	328	0.06	315	0.03	407	0.01	486	0.12	412	0.07	369
1994	0.018	310	0.08	426	0.15	390	0.11	366	0.18	370	0.10	365	0.02	415	0.004	453	0.06	377	0.08	383
1995	0.047	341	0.03	356	0.19	412	0.07	354	0.24	377	0.11	376	0.04	352	0.02	339	0.11	375	0.08	372
1996	0.021	371	0.05	347	0.24	398	0.05	386	0.26	363	0.09	373	0.05	365	0.02	469	0.13	359	0.09	369

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sheepshead (cont.)																				
1997	0.016	363	0.08	352	0.23	406	0.17	347	0.26	368	0.15	362	0.06	372	0.04	397	0.12	365	0.12	364
1998	0.014	415	0.07	401	0.19	394	0.09	383	0.16	350	0.33	346	0.08	366	0.03	392	0.14	375	0.12	366
1999	0.007	360	0.02	387	0.26	426	0.12	395	0.20	354	0.21	360	0.04	384	0.02	385	0.14	402	0.10	379
2000	0.016	349	0.06	431	0.08	413	0.05	377	0.20	347	0.36	367	0.07	394	0.03	422	0.11	410	0.12	379
2001	0.031	379	0.03	391	0.15	395	0.06	363	0.23	354	0.17	347	0.04	369	0.10	436	0.08	360	0.09	369
2002	0.042	383	0.02	402	0.13	420	0.27	401	0.30	389	0.13	379	0.05	383	0.07	409	0.16	347	0.13	387
2003	0.008	434	0.02	396	0.16	398	0.06	383	0.30	381	0.19	380	0.09	388	0.03	413	0.30	350	0.13	374
2004	0.014	434	0.03	425	0.40	420	0.06	417	0.20	400	0.13	382	0.05	388	0.08	472	0.22	368	0.11	399
2005	0.021	424	0.02	430	0.09	432	0.05	449	0.29	409	0.10	402	0.04	373	0.04	453	0.23	370	0.10	401
2006	0.003	445	0.03	400	0.09	412	0.02	321	0.21	370	0.11	355	0.06	420	0.04	436	0.15	359	0.08	375
2007	0.009	451	0.02	395	0.15	398	0.03	338	0.22	354	0.13	374	0.06	373	0.02	474	0.11	419	0.07	379
2008	0.018	379	0.01	378	0.14	402	0.04	358	0.21	357	0.17	347	0.06	377	0.02	457	0.13	396	0.09	369
2009	0.006	348	0.04	383	0.19	389	0.03	344	0.13	365	0.21	361	0.08	379	0.06	451	0.15	366	0.09	373
2010	0.006	355	0.03	386	0.14	384	0.05	360	0.23	361	0.17	369	0.08	382	0.02	355	0.20	400	0.10	376
2011	0.024	401	0.04	382	0.43	393	0.06	347	0.22	346	0.44	323	0.11	378	0.08	363	0.23	359	0.16	349
2012	0.016	448	0.09	359	0.34	392	0.06	334	0.25	341	0.29	322	0.10	356	0.19	381	0.30	373	0.17	355
2013	0.017	392	0.02	401	0.23	401	0.03	367	0.07	350	0.30	329	0.13	385	0.19	386	0.16	387	0.12	365
2014	0.011	365	0.02	394	0.18	391	0.05	345	0.12	377	0.11	356	0.17	378	0.20	411	0.11	388	0.10	383
2015	0.013	426	0.05	375	0.09	396	0.08	369	0.11	274	0.10	318	0.12	396	0.16	415	0.15	378	0.10	366
2016	0.008	373	0.04	356	0.07	339	0.07	367	0.06	375	0.05	341	0.05	386	0.13	435	0.14	371	0.07	380
Southern Flounder																				
1975	0.07	338	0.10	384	ND		0.11	323	0.07	300	0.07	309	0.16	385	0.08	451	0.14	362	0.10	360
1976	ND		0.04	365	0.50	321	0.05	296	0.18	363	0.08	304	0.24	351	0.06	347	0.13	389	0.11	348
1977	ND		0.21	331	0.26	345	0.03	322	0.22	312	0.18	368	0.12	383	0.01	491	0.04	353	0.13	341
1978	ND		0.08	372	0.17	348	0.04	310	0.13	310	0.12	377	0.24	373	0.05	354	0.05	335	0.09	355
1979	ND		0.05	333	0.10	338	0.08	338	0.18	381	0.06	329	0.10	355	0.06	390	0.16	368	0.09	359
1980	ND		0.14	346	0.34	370	0.16	330	0.10	329	0.11	361	0.16	373	0.06	360	0.14	392	0.13	355
1981	ND		0.08	326	0.10	351	0.06	335	0.10	311	0.07	354	0.10	348	0.10	388	0.14	358	0.09	346
1982	ND		0.16	345	0.27	354	0.10	350	0.16	312	0.09	361	0.09	353	0.11	349	0.23	355	0.14	346
1983	ND		0.07	348	0.22	350	0.10	324	0.16	343	0.05	337	0.10	367	0.08	344	0.13	389	0.10	351
1984	ND		0.07	341	0.18	364	0.05	331	0.08	323	0.09	323	0.12	328	0.08	327	0.09	293	0.08	327
1985	ND		0.08	340	0.25	370	0.11	333	0.13	331	0.07	336	0.08	337	0.15	347	0.12	331	0.11	339
1986	0.11	299	0.09	363	0.13	379	0.07	346	0.13	377	0.04	348	0.06	371	0.13	367	0.15	363	0.09	361
1987	0.09	335	0.11	336	0.11	350	0.10	309	0.14	342	0.07	394	0.07	337	0.03	381	0.11	402	0.09	350
1988	0.04	344	0.11	350	0.20	353	0.09	366	0.12	342	0.08	372	0.03	350	0.04	419	0.11	387	0.09	363
1989	0.05	325	0.08	347	0.19	362	0.08	328	0.12	353	0.09	342	0.04	336	0.02	392	0.09	382	0.08	351
1990	0.05	322	0.10	327	0.24	340	0.06	316	0.11	326	0.09	344	0.12	333	0.09	279	0.08	339	0.09	325
1991	0.03	313	0.05	354	0.14	368	0.07	332	0.09	352	0.08	366	0.09	355	0.11	385	0.14	365	0.09	360

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern Flounder (cont.)																				
1992	0.02	330	0.07	356	0.26	377	0.09	352	0.09	370	0.07	385	0.10	379	0.04	462	0.06	386	0.08	375
1993	0.03	340	0.05	379	0.22	426	0.05	364	0.09	395	0.06	411	0.08	377	0.03	353	0.11	387	0.07	388
1994	0.04	373	0.06	361	0.24	401	0.08	357	0.11	377	0.05	386	0.05	381	0.02	416	0.02	393	0.06	377
1995	0.05	349	0.04	360	0.10	407	0.07	357	0.08	351	0.06	391	0.05	380	0.02	360	0.04	420	0.05	372
1996	0.04	393	0.07	379	0.12	371	0.05	353	0.05	372	0.04	363	0.07	367	0.01	381	0.04	357	0.05	369
1997	0.04	334	0.07	352	0.15	387	0.04	342	0.06	359	0.04	386	0.05	377	0.02	407	0.07	388	0.06	367
1998	0.03	368	0.05	360	0.11	395	0.03	384	0.03	351	0.03	370	0.07	377	0.03	372	0.05	388	0.05	374
1999	0.08	332	0.07	360	0.22	380	0.12	342	0.11	378	0.08	367	0.04	397	0.01	401	0.07	401	0.08	368
2000	0.08	385	0.10	395	0.19	403	0.04	336	0.05	356	0.05	384	0.07	374	0.02	370	0.07	430	0.07	386
2001	0.02	328	0.08	365	0.08	402	0.03	323	0.06	354	0.05	347	0.02	376	0.01	390	0.04	372	0.05	360
2002	0.03	343	0.05	366	0.08	385	0.07	348	0.07	357	0.07	399	0.07	370	0.05	422	0.06	350	0.06	371
2003	0.04	349	0.03	370	0.14	386	0.03	344	0.08	342	0.04	359	0.05	407	0.02	381	0.05	404	0.05	370
2004	0.07	351	0.05	378	0.12	426	0.08	375	0.11	379	0.08	381	0.05	383	0.01	463	0.03	404	0.06	381
2005	0.06	350	0.06	367	0.13	400	0.02	352	0.08	365	0.04	381	0.03	389	0		0.03	384	0.04	374
2006	0.08	334	0.04	363	0.07	400	0.03	356	0.03	359	0.06	396	0.03	401	0.02	430	0.05	425	0.04	383
2007	0.03	339	0.04	394	0.05	401	0.02	298	0.03	390	0.01	326	0.04	349	0.01	345	0.04	333	0.03	364
2008	0.07	371	0.04	347	0.07	371	0.04	377	0.08	352	0.05	374	0.06	376	0.02	397	0.07	400	0.05	371
2009	0.08	403	0.06	397	0.11	399	0.03	344	0.07	372	0.03	383	0.04	409	0.01	436	0.03	452	0.05	392
2010	0.06	344	0.06	368	0.06	419	0.04	318	0.06	345	0.04	348	0.03	370	0.02	361	0.05	350	0.05	353
2011	0.10	385	0.13	370	0.13	387	0.09	324	0.09	357	0.10	373	0.07	372	0.03	401	0.06	422	0.09	369
2012	0.08	361	0.06	368	0.16	390	0.02	378	0.11	380	0.07	408	0.05	377	0.03	414	0.09	387	0.07	385
2013	0.06	370	0.03	392	0.13	387	0.01	326	0.02	311	0.01	367	0.02	345	0.04	425	0.02	401	0.03	380
2014	0.06	380	0.06	356	0.13	371	0.03	350	0.07	343	0.04	345	0.04	348	0.02	330	0.03	346	0.05	350
2015	0.06	326	0.05	374	0.10	411	0.03	330	0.10	353	0.07	361	0.04	329	0.06	389	0.03	389	0.06	365
2016	0.06	357	0.04	357	0.06	381	0.07	304	0.05	346	0.04	348	0.03	360	0.02	370	0.05	389	0.05	350
Atlantic Croaker																				
1975	0		0.06	253	ND		0		0.08	301	0.18	341	0.38	320	0.12	306	0.12	344	0.11	315
1976	ND		0.24	262	0.09	248	0.30	263	0.40	296	0.24	308	0.56	320	0.49	330	0.32	328	0.33	301
1977	ND		0.14	293	0.11	275	0.18	274	0.15	292	0.85	309	0.58	347	0.69	341	0.16	340	0.35	318
1978	ND		0.18	284	0.08	248	0.16	255	0.08	242	0.41	317	0.44	294	0.36	286	0.03	331	0.22	291
1979	ND		0.03	269	0.16	251	0.14	287	0.15	272	0.13	310	0.50	319	0.07	320	0.16	330	0.14	305
1980	ND		0.30	285	0.14	270	0.24	260	0.17	259	0.21	308	1.49	310	0.13	300	0.21	295	0.33	293
1981	ND		0.21	280	0.22	254	0.12	273	0.19	270	0.65	347	0.82	318	0.17	325	0.44	327	0.34	316
1982	ND		0.39	288	0.46	261	0.13	277	0.25	278	0.35	329	1.05	336	0.46	338	0.25	332	0.38	315
1983	ND		0.26	276	0.38	261	0.17	263	0.50	293	0.34	311	0.98	326	0.08	312	0.51	316	0.37	303
1984	ND		0.26	277	0.16	260	0.15	259	0.16	252	0.09	261	0.48	278	0.08	264	0.17	275	0.19	270
1985	ND		0.61	275	0.46	258	0.14	254	0.09	261	0.28	285	0.63	291	0.18	307	0.30	288	0.34	280
1986	0.19	297	0.44	280	0.15	261	0.17	253	0.17	256	0.26	284	1.35	323	0.12	322	0.35	300	0.36	295

TABLE 2.—(Cont.)

Species Year	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>		
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Atlantic Croaker (cont.)																					
1987	0.13	286	0.76	281	0.14	252	0.27	253	0.03	252	0.24	295	1.64	325	0.07	324	0.33	320	0.44	299	
1988	0.17	279	0.58	294	0.08	267	0.28	255	0.17	251	0.27	306	0.81	330	0.06	357	0.31	318	0.34	300	
1989	0.14	284	0.54	275	0.15	257	0.23	250	0.18	262	0.18	275	0.30	319	0.003	324	0.05	307	0.23	277	
1990	0.19	294	0.44	300	0.20	271	0.08	261	0.04	260	0.12	261	0.30	290	0.004	299	0.10	266	0.18	287	
1991	0.09	272	0.17	275	0.14	293	0.17	260	0.18	240	0.15	263	0.38	289	0.03	268	1.30	294	0.31	284	
1992	0.17	291	0.39	268	0.12	279	0.05	258	0.14	268	0.31	277	1.01	304	0.06	329	0.65	296	0.33	287	
1993	0.15	286	1.42	280	0.16	277	0.15	266	0.24	266	0.11	281	0.94	318	0.04	307	0.32	301	0.50	287	
1994	0.13	277	0.32	287	0.12	295	0.14	270	0.24	264	0.13	293	1.02	326	0.09	338	0.05	324	0.25	301	
1995	0.15	272	0.44	291	0.30	303	0.09	271	0.27	273	0.41	293	0.57	343	0.09	332	0.11	322	0.28	301	
1996	0.14	279	0.50	279	0.15	286	0.31	260	0.47	291	0.29	281	0.47	315	0.03	296	0.06	332	0.30	285	
1997	0.25	284	0.56	288	0.09	289	0.21	260	0.26	266	0.24	282	0.36	301	0.05	321	0.20	301	0.28	285	
1998	0.06	278	0.25	273	0.19	269	0.28	262	0.49	268	0.21	277	0.53	298	0.09	302	0.13	288	0.26	277	
1999	0.27	302	0.61	290	0.22	299	0.20	258	0.25	268	0.08	288	0.66	295	0.13	309	0.09	300	0.30	288	
2000	0.38	331	0.80	315	0.10	324	0.32	262	0.53	285	0.12	277	0.56	330	0.07	346	0.09	338	0.38	307	
2001	0.20	294	0.76	292	0.14	298	0.16	261	0.40	267	0.27	277	0.60	293	0.07	292	0.07	311	0.34	286	
2002	0.34	294	0.63	293	0.30	300	0.24	261	0.69	271	0.40	289	0.60	292	0.07	284	0.12	314	0.40	286	
2003	0.19	273	0.65	278	0.13	292	0.24	253	0.37	264	0.20	272	0.97	296	0.17	279	0.08	285	0.37	279	
2004	0.36	280	0.74	276	0.31	305	0.18	257	0.21	269	0.23	277	0.59	317	0.08	332	0.09	301	0.33	285	
2005	0.28	278	0.51	273	0.20	292	0.10	263	0.07	261	0.19	285	0.26	288	0.06	292	0.04	325	0.21	278	
2006	0.32	278	1.19	291	0.14	312	0.29	254	0.22	266	0.45	278	0.48	283	0.14	312	0.04	304	0.45	286	
2007	0.21	276	0.63	282	0.18	320	0.06	261	0.11	255	0.11	272	0.44	286	0.08	285	0.14	286	0.25	281	
2008	0.13	286	0.55	295	0.29	302	0.08	260	0.25	263	0.43	276	1.18	267	0.10	295	0.21	299	0.37	282	
2009	0.39	285	0.65	284	0.10	298	0.08	259	0.07	267	0.07	268	0.30	302	0.02	292	0.10	308	0.23	285	
2010	0.42	286	0.49	270	0.23	303	0.13	258	0.36	238	0.12	263	0.90	248	0.06	260	0.11	288	0.30	261	
2011	0.57	295	0.77	280	0.14	288	0.15	245	0.15	260	0.10	260	0.35	279	0.03	271	0.10	285	0.29	277	
2012	0.68	302	0.68	293	0.12	340	0.12	263	0.03	279	0.09	291	0.45	294	0.11	291	0.15	293	0.27	292	
2013	0.49	295	1.09	289	0.18	312	0.43	296	0.08	265	0.18	274	0.12	285	0.02	309	0.07	279	0.37	289	
2014	0.40	286	0.98	285	0.31	308	0.08	264	0.07	253	0.03	273	0.34	288	0.08	261	0.10	311	0.30	284	
2015	0.30	269	0.54	277	0.31	298	0.19	264	0.05	272	0.12	268	0.45	285	0.06	273	0.36	297	0.28	280	
2016	0.40	287	0.70	267	0.35	314	0.06	263	0.11	257	0.09	259	0.43	281	0.09	305	0.28	310	0.29	278	
Gafftopsail Catfish																					
1975	0.037	530	0	ND		0.12	571	0.04	493	0.04	552	0.05	575	0		0		0.03	556		
1976	ND		0.09	482	0	0.22	526	0.38	499	0.05	587	0.02	474	0		0		0.11	510		
1977	ND		0.04	516	0	0.03	499	0.17	526	0.02	385	0.01	600	0.070	529	0		0.05	519		
1978	ND		0		0	0.04	514	0.03	543	0		0.06	552	0		0		0.02	535		
1979	ND		0		0.15	544	0		0.07	503	0.04	472	0		0	0.004	282	0.02	500		
1980	ND		0.17	535	0.01	432	0.02	490	0.42	518	0.12	505	0.05	519	0		0	0.11	520		
1981	ND		0.10	492	0	0.02	505	0.06	542	0.07	511	0.11	523	0		0.008	378	0.05	507		

TABLE 2.—(Cont.)

Species	Sabine Lake		Galveston		East		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gafftopsail Catfish (cont.)																					
1982	ND		0.04	413	0.10	478	0.06	520	0.33	527	0.09	533	0.05	545	0.005	541	0		0.08	514	
1983	ND		0.03	492	0.13	473	0.02	498	0.31	515	0.09	544	0.07	532	0		0.006	409	0.07	515	
1984	ND		0.04	517	0.09	474	0.14	511	0.26	508	0.11	522	0.03	475	0		0.002	315	0.08	509	
1985	ND		0.06	525	0.11	482	0.05	499	0.07	546	0.10	556	0.12	519	0.003	556	0.002	511	0.06	528	
1986	0.079	462	0.02	521	0.05	473	0.04	474	0.16	486	0.12	529	0.05	514	0		0.020	356	0.06	494	
1987	0.013	423	0.05	491	0.10	527	0.05	512	0.02	519	0.08	542	0.03	521	0		0.007	390	0.04	514	
1988	0.026	370	0.04	515	0.02	534	0.17	521	0.11	544	0.10	538	0.12	521	0.002	495	0.001	325	0.07	525	
1989	0.003	321	0.04	480	0.03	485	0.18	509	0.11	549	0.05	547	0.07	584	0		0.003	358	0.06	524	
1990	0.012	466	0.12	502	0.13	504	0.18	499	0.20	508	0.05	583	0.07	549	0.003	598	0.002	429	0.09	512	
1991	0.001	469	0.04	502	0.12	518	0.05	476	0.06	562	0.03	569	0.02	472	0		0.005	299	0.03	514	
1992	0.002	464	0.10	445	0.16	559	0.09	519	0.13	565	0.03	541	0.03	496	0.005	495	0.002	406	0.06	509	
1993	0		0.06	513	0.15	566	0.11	501	0.27	537	0.04	585	0.08	472	0		0.006	414	0.08	523	
1994	0.027	409	0.08	441	0.07	501	0.17	516	0.16	541	0.10	561	0.05	511	0		0.006	419	0.08	509	
1995	0.002	380	0.09	412	0.16	509	0.19	503	0.26	522	0.12	565	0.05	455	0		0.009	340	0.10	499	
1996	0.001	490	0.08	422	0.004	504	0.13	483	0.16	516	0.04	494	0.13	551	0		0.002	322	0.07	489	
1997	0.041	417	0.30	452	0.05	529	0.11	476	0.21	494	0.06	507	0.01	392	0		0.004	377	0.11	468	
1998	0.015	511	0.13	473	0.01	474	0.12	507	0.19	492	0.09	522	0.10	523	0		0.003	406	0.09	496	
1999	0.007	516	0.24	487	0.07	484	0.32	515	0.29	536	0.07	511	0.21	523	0.009	522	0.010	507	0.16	511	
2000	0.030	380	0.06	500	0.004	576	0.20	481	0.14	492	0.07	519	0.06	541	0		0.005	488	0.07	494	
2001	0.050	462	0.16	473	0.19	542	0.30	494	0.49	513	0.28	498	0.17	521	0.015	492	0.021	345	0.20	498	
2002	0.026	473	0.37	481	0.24	541	0.35	507	0.46	525	0.20	497	0.23	510	0.003	367	0.026	459	0.24	501	
2003	0.150	478	0.39	512	0.34	525	0.41	526	0.57	522	0.20	528	0.34	529	0		0.027	466	0.28	520	
2004	0.073	426	0.59	489	0.09	514	0.33	505	0.65	513	0.26	513	0.24	529	0.002	564	0.028	487	0.31	502	
2005	0.152	442	0.29	492	0.13	515	0.78	502	0.65	534	0.35	513	0.25	520	0.003	460	0.011	508	0.33	509	
2006	0.219	464	0.31	510	0.18	537	0.73	509	0.85	533	0.21	517	0.24	530	0		0.016	495	0.33	517	
2007	0.120	445	0.71	475	0.35	529	0.37	498	0.95	519	0.27	509	0.46	535	0.014	475	0.054	446	0.41	499	
2008	0.138	472	0.53	504	0.14	528	0.67	503	0.74	535	0.44	537	0.52	546	0.008	502	0.044	506	0.41	519	
2009	0.274	464	0.48	511	0.18	496	0.62	485	0.53	517	0.44	519	0.39	532	0.015	510	0.044	520	0.36	508	
2010	0.280	486	0.77	493	0.30	536	0.57	495	0.60	517	0.44	511	0.34	517	0.001	552	0.027	492	0.42	502	
2011	0.209	460	0.43	500	0.24	527	0.64	483	0.53	522	0.50	505	0.45	524	0.009	492	0.123	477	0.38	502	
2012	0.107	455	0.38	490	0.04	502	0.41	502	0.67	509	0.32	503	0.32	495	0.004	485	0.042	472	0.29	499	
2013	0.207	504	0.70	512	0.39	518	0.72	494	0.92	517	0.79	511	0.54	522	0.063	551	0.027	538	0.53	511	
2014	0.232	476	0.45	499	0.56	529	0.53	485	0.74	496	0.49	511	0.43	531	0.083	535	0.075	502	0.40	503	
2015	0.154	479	0.53	499	0.28	526	0.34	496	0.58	508	0.28	504	0.09	529	0.050	475	0.040	495	0.29	502	
2016	0.159	471	0.52	489	0.52	523	0.56	504	0.89	496	0.37	498	0.27	507	0.010	472	0.022	494	0.39	497	
Gulf Menhaden																					
1975	0		0.43	271	ND		1.77	303	0.34	239	0.15	302	0.42	283	0.23	280	0.07	313	0.49	289	
1976	ND		2.80	240	0.036	270	0.29	246	0.30	275	0.11	264	0.48	271	1.23	304	0.06	275	0.90	256	

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf Menhaden (cont.)																				
1977	ND		2.92	244	0.039	252	0.16	244	0.12	240	0.05	237	2.03	255	1.41	263	0.08	210	1.04	248
1978	ND		0.53	249	0.467	248	0.05	241	0.11	240	0.49	243	1.55	257	0.16	254	0		0.37	250
1979	ND		0.29	245	0.129	237	0.52	246	0.03	227	0.07	251	0.27	251	0.05	261	0.05	307	0.20	249
1980	ND		0.31	253	0.006		0.04	259	0.10	254	0.12	248	0.17	242	0.54	250	0.06	325	0.19	253
1981	ND		0.73	258	0		0.09	246	0.14	241	0.09	238	0.35	256	0.75	263	0.08	272	0.33	258
1982	ND		0.55	244	0.013	310	0.03	246	0.13	243	0.04	238	0.80	255	0.07	264	0.01	239	0.22	249
1983	ND		1.76	262	0.083	248	0.05	249	0.20	239	0.20	246	0.25	262	0.03	292	0.04	251	0.47	259
1984	ND		0.97	257	0.171	253	0.44	233	0.36	242	0.62	253	0.54	282	0.17	274	0.22	291	0.51	257
1985	ND		1.57	250	0.040	233	0.12	254	0.10	248	0.11	263	0.53	260	0.17	279	0.07	279	0.46	253
1986	0.16	245	1.55	242	0.094	233	0.28	237	0.11	244	0.15	251	0.87	263	0.01	249	0.02	262	0.48	245
1987	0.12	244	1.85	252	0		0.13	244	0.003	278	0.02	250	0.19	259	0.02	256	0.01	279	0.43	252
1988	0.17	270	0.89	242	0.008	207	0.26	231	0.10	241	0.01	252	0.10	265	0.001	249	0.06	308	0.26	244
1989	0.16	254	0.76	253	0.034	236	0.17	229	0.01	240	0.02	276	0.05	253	0		0.01	253	0.20	250
1990	0.10	256	1.35	252	0.042	247	0.60	221	0.02	251	0.09	214	0.13	294	0		0.001	226	0.40	245
1991	0.33	261	1.35	257	0		0.03	214	0.05	240	0.001	229	0.15	255	0.01	287	0.003	241	0.32	256
1992	0.02	299	1.32	258	0.007	232	0.09	239	0.15	246	0.01	257	0.15	271	0.02	266	0.06	237	0.33	257
1993	0.40	286	1.08	253	0.003	255	0.20	269	0.02	300	0		0.07	239	0.003	281	0.25	279	0.31	259
1994	0.14	275	0.46	250	0.008	210	0.06	249	0.02	266	0.02	268	0.15	256	0.001	96	0.03	282	0.13	253
1995	0.15	249	2.58	257	0.007	237	0.12	245	0.28	261	0.04	268	0.10	231	0.04	271	0.03	316	0.62	257
1996	0.09	260	2.32	254	0.004	125	0.07	235	0.05	246	0.02	264	0.14	254	0.01	238	0.03	276	0.51	253
1997	0.06	254	1.94	252	0		0.07	256	0.03	261	0.04	245	0.24	282	0.01	237	0.05	295	0.45	254
1998	0.02	281	1.28	247	0.003	322	0.04	243	0.17	249	0.08	265	0.16	239	0.07	256	0.03	305	0.33	248
1999	0.17	284	1.52	264	0		0.21	251	0.10	245	0.08	242	1.00	267	0.07	255	0.24	274	0.50	264
2000	0.25	266	1.23	251	0		0.12	246	0.12	241	0.07	239	0.07	245	0.24	246	0.09	283	0.35	251
2001	1.26	268	3.12	255	0.007		0.23	239	0.31	247	0.43	231	0.53	262	0.12	263	0.02	269	0.88	254
2002	0.28	310	2.28	250	0.022	241	0.12	253	0.63	243	0.14	247	0.38	260	0.11	271	0.11	275	0.65	252
2003	0.45	281	3.13	245	0.021	272	0.40	269	0.51	245	0.09	250	0.34	248	0.75	233	0.10	271	0.93	247
2004	0.13	293	2.77	251	0.191	251	0.46	230	0.51	243	0.23	248	0.24	255	0.43	259	0.03	313	0.81	249
2005	0.08	277	1.96	238	0.022	266	0.20	228	0.31	241	0.12	250	0.29	246	0.07	252	0.01	305	0.52	239
2006	2.27	259	1.20	241	0.006	310	0.11	215	0.23	232	0.16	243	0.13	269	0.04	249	0.02	278	0.42	245
2007	1.68	262	2.02	244	0.012	203	0.18	216	0.17	225	0.07	248	0.19	251	0.13	243	0.04	266	0.58	245
2008	0.62	273	2.28	244	0.095	269	0.16	244	0.09	240	0.03	269	0.12	261	0.11	253	0.11	268	0.58	247
2009	1.56	253	0.75	248	0.011	259	0.24	239	0.02	245	0.02	278	0.20	251	0.01	270	0.18	287	0.30	251
2010	0.45	263	2.34	253	0.022	211	0.36	231	0.35	231	0.68	235	0.33	267	0.04	283	0.10	276	0.73	250
2011	0.68	258	0.73	239	0.028	234	0.17	242	0.05	228	0.03	254	0.15	257	0.11	275	0.07	271	0.25	245
2012	1.15	238	0.78	238	0.037	241	0.09	224	0.10	238	0.05	234	0.09	257	0.01	258	0.01	209	0.25	238
2013	0.27	247	0.78	232	0.031	237	0.11	236	0.40	230	0.08	230	0.17	272	0.02	250	0.001	234	0.26	235
2014	0.49	245	0.97	234	0.015	222	0.20	209	0.13	232	0.13	227	0.11	215	0.01	253	0.01	236	0.29	231

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf Menhaden (cont.)																				
2015	0.43	240	1.33	234	0		0.27	218	0.05	240	0.17	234	0.09	231	0.07	247	0.03	244	0.38	233
2016	0.36	243	0.25	240	0.013	202	0.17	217	0.31	236	0.17	205	0.37	246	0.05	249	0		0.18	234
Striped Mullet																				
1975	0.07	390	0.31	326	ND		0.35	355	0.67	328	2.05	327	0.95	379	0.31	355	0.47	343	0.67	339
1976	ND		0.30	346	0.23	320	0.25	349	1.62	331	0.46	364	0.33	343	0.62	402	1.97	397	0.73	367
1977	ND		0.16	345	0.24	383	0.44	330	0.85	348	0.32	323	0.35	376	0.27	396	0.56	357	0.39	350
1978	ND		0.15	410	0.65	327	0.58	349	0.60	318	1.15	335	0.14	335	0.07	364	0.31	387	0.44	345
1979	ND		0.07	343	0.07	338	0.33	342	0.77	358	0.65	349	0.24	354	0.44	405	0.34	364	0.37	359
1980	ND		0.17	363	0.02	319	0.19	343	0.57	361	0.61	359	0.48	350	0.26	370	0.48	348	0.36	356
1981	ND		0.09	395	0.12	349	0.16	332	0.53	345	0.48	336	0.28	357	0.26	365	0.87	369	0.35	356
1982	ND		0.22	379	0.36	341	0.33	331	0.36	342	0.75	358	0.25	345	0.13	348	0.45	373	0.35	356
1983	ND		0.20	370	0.20	335	0.17	339	0.33	334	0.49	356	0.25	347	0.27	382	0.57	376	0.31	361
1984	ND		0.43	365	0.64	328	0.32	332	0.48	357	0.62	351	0.34	358	0.51	375	0.44	360	0.46	356
1985	ND		0.15	338	0.18	330	0.24	327	0.51	363	0.26	344	0.21	345	0.28	398	0.29	365	0.26	355
1986	0.03	329	0.13	378	0.34	328	0.14	338	0.38	370	0.23	360	0.15	358	0.05	371	0.65	371	0.23	364
1987	0.04	325	0.23	376	0.39	332	0.30	322	1.14	380	0.63	352	0.32	338	0.13	392	0.36	383	0.41	364
1988	0.05	331	0.23	363	0.34	346	0.38	330	0.40	347	0.43	367	0.26	370	0.40	399	0.43	396	0.34	366
1989	0.03	325	0.19	349	0.19	335	0.18	328	0.27	350	0.38	353	0.22	360	0.34	392	0.45	367	0.27	359
1990	0.06	334	0.36	342	0.28	368	0.20	344	0.77	370	0.79	369	0.20	354	0.22	388	0.34	384	0.40	364
1991	0.07	332	0.21	334	0.58	392	0.10	343	0.73	396	0.44	360	0.28	364	0.09	382	0.43	400	0.31	375
1992	0.02	328	0.26	377	0.32	386	0.34	330	0.48	350	0.68	375	0.42	361	0.16	392	0.32	383	0.36	366
1993	0.51	335	0.85	388	0.69	381	0.51	360	0.67	378	0.89	363	0.42	377	0.55	417	0.45	402	0.64	381
1994	0.07	353	0.54	379	0.35	385	0.59	361	0.28	358	0.64	370	0.24	384	0.10	399	0.22	400	0.39	374
1995	0.21	355	0.36	376	0.31	397	0.36	358	0.24	348	0.54	370	0.27	369	0.40	418	0.19	376	0.34	376
1996	0.14	358	0.30	359	0.23	401	0.39	356	0.37	372	0.39	360	0.33	393	0.80	436	0.30	403	0.38	387
1997	0.14	347	0.39	369	0.28	407	1.47	357	0.44	372	0.74	374	0.35	394	0.48	436	0.21	391	0.57	376
1998	0.06	357	0.14	356	0.19	388	0.81	353	0.35	369	0.93	378	0.30	385	0.27	408	0.35	393	0.42	373
1999	0.11	340	0.35	365	0.24	406	0.28	351	0.30	376	0.55	382	0.16	376	0.32	433	0.25	393	0.32	380
2000	0.15	350	0.20	374	0.14	408	0.21	347	0.28	380	0.37	360	0.22	375	0.24	397	0.19	384	0.23	372
2001	0.04	382	0.23	358	0.17	395	0.34	345	0.36	358	0.69	363	0.25	379	0.46	413	0.28	388	0.35	371
2002	0.09	344	0.28	361	0.14	369	0.45	353	0.68	369	0.49	376	0.36	379	0.56	437	0.46	390	0.43	379
2003	0.19	339	0.38	369	0.13	386	0.37	339	0.58	364	0.73	374	0.31	387	0.26	430	0.68	406	0.45	377
2004	0.22	332	0.36	359	0.39	399	0.47	348	0.97	379	0.52	372	0.22	393	0.19	399	0.23	390	0.41	371
2005	0.19	336	0.47	376	0.20	382	0.33	335	0.69	373	0.50	373	0.20	386	0.32	415	0.10	359	0.37	372
2006	0.02	337	0.28	366	0.22	382	0.20	354	0.33	359	0.22	360	0.12	395	0.42	434	0.56	408	0.30	386
2007	0.11	361	0.15	370	0.09	378	0.11	353	0.37	360	0.57	373	0.30	384	0.46	450	0.24	412	0.28	389
2008	0.21	356	0.27	360	0.09	366	0.16	348	0.24	359	0.20	344	0.16	378	0.16	433	0.24	397	0.21	369
2009	0.24	353	0.15	402	0.13	371	0.15	339	0.51	367	0.55	347	0.19	357	0.50	415	0.40	426	0.32	381

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped Mullet (cont.)																				
2010	0.17	355	0.21	381	0.08	369	0.17	338	0.53	359	2.03	335	0.27	369	1.51	440	1.28	373	0.58	386
2011	0.10	342	0.16	382	0.28	366	0.07	344	0.39	355	0.26	352	0.19	369	0.16	421	0.34	402	0.21	375
2012	0.09	330	0.13	357	0.14	381	0.19	343	0.29	356	0.15	358	0.24	371	0.34	422	0.19	383	0.20	372
2013	0.17	345	0.35	367	0.38	368	0.25	336	0.32	338	0.24	344	0.24	348	0.53	413	0.24	380	0.31	366
2014	0.35	362	0.25	359	0.17	379	0.20	334	0.78	348	0.39	344	0.21	348	0.19	393	0.27	396	0.31	358
2015	0.09	358	0.12	374	0.05	349	0.13	340	0.30	335	0.34	341	0.19	357	0.27	394	0.27	387	0.21	361
2016	0.05	344	0.13	379	0.18	350	0.20	342	0.44	339	0.47	338	0.22	347	0.24	388	0.28	385	0.26	356
Total finfishes																				
1975	2.96	388	5.50	424	ND		6.12	351	6.59	365	7.13	345	5.10	344	4.57	378	5.41	424	5.69	380
1976	ND		7.37	335	4.05	385	5.03	393	9.09	367	4.90	365	5.09	352	5.15	384	10.99	401	6.78	371
1977	ND		6.09	358	3.25	364	5.46	400	6.30	353	3.65	349	5.79	335	5.26	349	6.63	377	5.51	363
1978	ND		3.87	346	3.83	326	4.74	370	4.83	394	5.29	345	3.99	329	3.67	360	3.18	397	4.23	361
1979	ND		3.52	361	2.38	380	4.28	364	5.51	374	3.66	380	3.42	338	2.25	374	3.52	395	3.69	370
1980	ND		3.94	370	2.93	372	3.20	347	6.04	357	4.80	357	5.13	338	3.39	359	4.50	389	4.28	361
1981	ND		4.30	373	3.32	357	2.96	392	4.75	371	4.41	381	4.85	370	3.08	362	5.58	395	4.21	378
1982	ND		6.20	354	6.39	353	3.75	387	5.13	373	4.46	372	5.18	347	3.52	366	5.89	380	5.02	367
1983	ND		6.12	364	6.23	344	3.98	396	5.27	365	3.88	399	5.84	358	2.95	372	5.51	399	4.91	376
1984	ND		6.49	372	5.63	382	4.39	393	3.88	377	3.83	417	4.26	350	3.08	379	4.20	410	4.56	385
1985	ND		7.09	342	4.46	371	3.74	399	4.19	400	3.26	409	4.05	366	3.41	360	4.61	396	4.59	374
1986	2.54	402	6.06	357	4.37	390	4.57	386	4.72	411	3.96	386	5.31	368	2.25	386	5.27	418	4.62	385
1987	2.20	432	6.04	344	4.66	391	4.22	354	5.13	435	3.33	397	5.04	352	1.60	404	4.67	446	4.36	385
1988	2.56	374	6.36	357	6.50	403	5.51	378	5.88	406	4.35	392	5.11	363	3.08	388	5.61	414	5.20	383
1989	2.22	395	6.72	369	5.23	388	4.26	378	5.61	405	4.61	381	5.33	389	2.93	415	5.25	409	5.00	388
1990	2.42	407	5.25	355	4.94	389	4.13	354	5.44	406	4.60	411	4.51	403	2.82	434	4.36	434	4.45	392
1991	3.11	415	5.53	355	5.33	382	4.95	380	6.49	409	4.83	373	6.28	376	3.96	401	7.46	396	5.50	383
1992	2.68	441	6.20	369	6.26	441	5.65	374	6.03	411	6.13	427	5.88	381	3.39	425	7.29	401	5.75	397
1993	2.67	385	6.96	366	7.09	462	5.80	390	7.53	433	6.36	455	7.26	401	6.28	437	7.99	423	6.70	412
1994	3.13	378	6.29	380	6.79	435	5.23	392	6.38	408	5.42	409	5.53	393	6.99	430	6.15	439	5.92	406
1995	3.93	391	7.26	339	7.14	418	5.99	369	5.88	379	6.45	389	5.90	406	6.52	434	5.70	430	6.28	386
1996	3.83	403	7.42	373	5.79	431	5.76	385	8.03	415	6.73	396	5.24	405	6.79	434	5.74	430	6.47	402
1997	4.00	412	7.49	369	4.90	450	6.04	374	5.65	393	5.72	418	4.01	403	5.86	412	5.09	439	5.80	397
1998	3.27	458	5.96	354	4.04	421	8.28	385	8.09	402	7.20	392	5.13	366	5.84	382	5.13	424	6.32	387
1999	3.69	381	6.24	366	5.40	436	4.48	407	5.89	421	5.76	414	5.60	366	4.37	404	5.16	422	5.35	398
2000	5.48	386	6.04	375	3.23	433	4.01	361	7.55	389	6.52	389	5.19	400	5.97	406	5.25	432	5.67	392
2001	4.21	384	8.98	357	6.86	414	5.12	384	7.96	397	6.71	378	4.92	385	6.27	395	4.07	443	6.43	385
2002	4.26	418	7.56	380	5.62	406	5.78	386	7.63	388	7.12	398	5.42	393	5.97	396	5.02	415	6.36	393
2003	3.98	403	8.46	366	6.38	424	5.85	397	7.81	401	6.36	426	6.19	390	5.80	403	5.05	433	6.56	397
2004	3.70	406	8.43	368	9.03	417	5.73	382	8.53	426	6.51	439	5.40	422	6.95	420	5.45	414	6.80	404

TABLE 2.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes (cont.)																				
2005	4.96	439	7.08	356	5.39	413	5.81	414	8.05	431	6.15	426	4.96	416	7.61	419	4.23	426	6.26	407
2006	7.02	386	7.42	369	6.00	427	5.75	408	9.20	425	6.05	413	5.56	390	4.90	413	4.89	442	6.38	404
2007	5.33	385	7.91	371	5.84	434	4.38	393	7.68	430	5.88	427	6.39	398	7.12	425	6.53	432	6.52	408
2008	6.17	472	8.93	396	6.72	401	5.45	391	7.11	401	6.52	393	6.49	387	5.11	403	6.12	436	6.71	403
2009	7.80	407	6.32	389	7.35	439	5.22	385	8.85	411	7.74	403	6.09	387	7.12	420	5.35	424	6.65	404
2010	6.50	424	8.13	392	6.97	444	4.65	388	7.94	412	7.64	425	6.37	408	7.34	444	6.73	452	6.82	415
2011	6.75	454	6.86	383	7.20	415	5.62	372	8.77	395	5.65	410	6.03	404	5.49	410	6.45	422	6.44	400
2012	5.84	402	6.00	368	6.82	425	4.58	421	5.98	426	5.50	400	5.91	406	4.93	417	7.06	425	5.73	406
2013	4.85	409	7.83	399	7.15	422	5.48	417	7.58	429	6.43	390	6.05	413	7.04	411	5.21	425	6.54	410
2014	5.15	426	6.46	384	10.04	417	3.65	403	6.06	431	5.25	423	5.19	414	6.22	415	5.67	431	5.66	412
2015	3.78	414	6.14	371	5.43	412	4.95	395	4.83	455	4.53	414	5.48	386	6.83	412	6.00	413	5.48	403
2016	3.51	434	5.72	413	5.86	410	4.91	397	9.07	426	5.10	439	6.26	382	6.78	402	5.76	429	5.96	414
Blue crab																				
1983	ND		0.17	136	0.25	152	0.10	151	0.11	137	0.21	146	0.19	146	0.25	146	0.33	146	0.19	144
1984	ND		0.06	151	0.06	140	0.14	147	0.14	147	0.15	145	0.17	142	0.21	138	0.22	148	0.14	145
1985	ND		0.05	149	0.08	155	0.04	142	0.07	139	0.11	141	0.07	143	0.19	147	0.09	148	0.08	145
1986	0.21	150	0.04	146	0.02	144	0.03	161	0.10	146	0.03	138	0.06	144	0.03	147	0.06	149	0.06	147
1987	0.24	154	0.08	141	0.09	158	0.13	154	0.31	152	0.05	158	0.12	157	0.27	157	0.13	152	0.15	153
1988	0.18	155	0.10	144	0.15	150	0.05	137	0.08	138	0.06	145	0.07	147	0.02	129	0.05	152	0.07	145
1989	0.13	157	0.09	136	0.05	144	0.03	139	0.04	134	0.02	148	0.03	159	0		0.05	152	0.05	143
1990	0.22	146	0.09	150	0.10	144	0.18	144	0.13	144	0.05	149	0.09	138	0.07	129	0.18	142	0.12	143
1991	0.07	152	0.05	151	0.09	152	0.07	131	0.16	150	0.04	136	0.10	153	0.12	139	0.20	148	0.10	145
1992	0.10	161	0.03	143	0.06	156	0.05	153	0.05	136	0.06	140	0.03	148	0.25	138	0.07	152	0.07	143
1993	0.06	169	0.02	145	0.09	150	0.03	156	0.03	146	0.02	160	0.06	155	0.04	157	0.03	142	0.03	153
1994	0.06	163	0.04	152	0.14	151	0.03	155	0.03	150	0.03	154	0.02	147	0.01	140	0.01	125	0.03	151
1995	0.11	158	0.02	146	0.07	151	0.03	127	0.05	137	0.01	144	0.02	150	0.02	124	0.06	136	0.03	140
1996	0.04	155	0.02	160	0.03	154	0.01	147	0.01	159	0.01	140	0.01	144	0.003	139	0.03	148	0.02	152
1997	0.07	160	0.02	142	0.07	156	0.02	152	0.03	161	0.02	159	0.07	149	0.16	149	0.05	139	0.05	150
1998	0.06	146	0.04	146	0.09	148	0.02	150	0.08	148	0.01	143	0.03	144	0.16	152	0.04	133	0.05	147
1999	0.19	152	0.02	159	0.07	151	0.02	159	0.02	143	0.03	159	0.04	158	0.13	151	0.02	157	0.05	153
2000	0.05	160	0.01	155	0.03	143	0.01	150	0.01	140	0.01	146	0.01	150	0		0.01	169	0.01	152
2001	0.05	154	0.02	133	0.09	149	0.03	147	0.04	157	0.02	145	0.03	144	0		0.01	110	0.03	145
2002	0.10	147	0.06	135	0.10	139	0.04	130	0.08	150	0.05	142	0.07	154	0.02	142	0.003	87	0.05	141
2003	0.07	153	0.03	134	0.06	163	0.03	147	0.03	163	0.04	150	0.08	149	0.09	149	0.02	153	0.05	149
2004	0.12	156	0.03	134	0.19	154	0.03	161	0.05	152	0.03	149	0.05	152	0.08	162	0.001	170	0.04	152
2005	0.11	153	0.11	113	0.07	151	0.03	139	0.04	146	0.03	157	0.04	147	0.002	149	0.004	148	0.05	131
2006	0.17	149	0.08	141	0.11	154	0.02	122	0.03	152	0.03	153	0.02	146	0		0.01	143	0.04	145
2007	0.13	155	0.09	147	0.37	158	0.13	151	0.08	155	0.14	156	0.30	155	0.50	157	0.01	141	0.17	155

TABLE 2.—(Cont.)

Species Year	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>		
	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Blue crab (cont.)																					
2008	0.13	157	0.12	151	0.24	161	0.04	155	0.05	149	0.05	119	0.01	150	0.04	146	0.04	175	0.07	152	
2009	0.12	151	0.04	134	0.03	145	0.01	149	0.03	141	0.04	119	0.01	138	0		0.01	143	0.03	137	
2010	0.09	148	0.11	127	0.19	145	0.06	155	0.12	151	0.15	145	0.13	149	0.50	160	0.14	141	0.16	148	
2011	0.15	160	0.02	133	0.13	164	0.02	144	0.02	137	0.07	42	0.02	149	0.06	153	0.01	152	0.04	125	
2012	0.08	160	0.05	137	0.17	144	0.06	140	0.03	146	0.03	140	0.01	135	0		0.01	137	0.04	142	
2013	0.12	160	0.06	137	0.11	155	0.02	154	0.04	143	0.03	103	0.02	148	0.002	43	0.003	152	0.04	141	
2014	0.06	167	0.09	119	0.07	155	0.05	149	0.04	146	0.03	111	0.03	140	0.02	61	0.02	141	0.05	130	
2015	0.08	150	0.11	107	0.14	161	0.07	160	0.20	157	0.12	152	0.10	152	1.18	158	0.02	148	0.22	153	
2016	0.08	154	0.12	137	0.36	157	0.17	159	0.15	155	0.13	158	0.12	155	0.08	141	0.03	154	0.12	152	

TABLE 3.—Annual mean catch rates (No./ha) and mean total lengths (mm) of selected fishes and shellfishes caught with 18.3-m bag seines by bay system during 1977-2016. Blank indicates no measurement taken; ND = no data.

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
FINFISHES																				
Red Drum																				
1977*	ND		21.2	35	ND		7.6	51	84.8	51	13.9	44	1.5	41	0		1.1	39	18.7	46
1978	ND		2.5	67	ND		3.5	43	12.6	51	4.5	94	3.3	67	11.0	59	17.4	52	7.4	58
1979	ND		16.7	62	ND		6.5	92	11.1	67	4.8	92	17.8	85	26.7	66	15.8	64	13.9	72
1980	ND		59.0	74	ND		8.1	68	27.8	50	5.1	88	16.2	75	4.5	82	15.5	72	22.9	71
1981	ND		26.2	52	ND		8.7	86	29.0	53	34.2	39	39.7	46	4.8	46	45.5	56	26.3	52
1982	ND		53.1	62	ND		9.0	76	18.3	101	25.7	103	19.8	62	0.8	55	16.1	89	23.5	78
1983	ND		46.9	67	11.0 ^b	67	4.4	70	7.2	99	11.8	97	7.4	88	2.5	59	61.1	91	22.8	80
1984	ND		14.9	66	9.3	70	1.7	105	11.9	56	4.6	100	4.2	73	2.5	52	4.7	73	7.1	71
1985	ND		3.3	131	10.3	107	6.9	96	7.2	115	18.3	81	8.9	67	1.1	61	17.2	69	8.8	86
1986	18.6	66	7.5	87	8.1	82	1.9	78	6.1	105	1.4	117	3.9	98	3.1	84	21.9	94	7.2	90
1987	6.1	99	45.0	58	47.2	61	15.8	88	15.3	89	8.9	59	6.9	71	1.9	117	31.9	62	21.3	66
1988	12.8	78	8.2	78	27.3	77	2.9	114	6.3	89	10.1	78	9.4	49	4.1	66	21.3	64	9.6	73
1989	60.6	44	3.2	59	23.8	47	3.7	85	10.4	82	8.1	65	4.4	83	1.4	54	17.8	69	9.4	63
1990	4.7	62	17.5	53	27.4	50	13.9	51	19.1	50	43.8	40	20.5	56	4.0	32	25.0	39	20.2	46
1991	5.7	97	14.1	73	30.4	53	29.5	80	35.9	78	25.5	61	27.3	71	5.0	88	43.2	61	24.4	70
1992	5.1	68	9.0	85	23.3	56	14.5	77	21.7	84	21.0	82	7.4	74	13.6	51	13.0	70	14.1	75
1993	11.1	73	27.9	58	40.0	48	11.0	66	16.5	58	13.3	60	11.8	72	8.5	53	23.1	62	17.7	60
1994	6.7	72	21.7	59	30.6	55	6.4	58	13.3	69	29.4	58	52.5	55	11.4	61	25.6	70	21.3	61
1995	20.1	69	11.5	48	17.5	55	7.1	69	14.9	77	15.1	63	26.0	62	7.4	86	29.2	62	15.3	63
1996	8.5	76	15.7	48	20.6	56	16.3	48	26.7	63	5.0	65	8.1	76	11.3	60	14.0	65	14.2	58
1997	11.0	74	12.2	76	38.9	63	16.7	68	15.6	62	8.8	76	13.3	80	6.4	113	15.3	85	13.7	75
1998	6.4	94	8.5	66	20.6	68	6.8	77	15.8	62	16.9	68	42.9	60	3.3	71	23.9	64	15.0	65
1999	12.2	67	7.8	61	15.8	65	11.8	63	15.3	80	19.0	69	16.3	85	11.9	70	11.0	77	12.7	71
2000	8.9	77	12.8	66	11.1	66	3.5	108	7.1	70	7.1	70	11.8	67	3.6	76	5.3	48	7.7	69
2001	3.6	113	26.9	60	24.4	71	8.6	76	16.3	73	11.7	70	38.5	49	5.6	87	22.4	56	18.0	62
2002	2.6	116	16.8	49	18.6	71	7.9	85	14.6	76	9.9	97	36.3	56	12.6	66	15.3	71	14.8	67
2003	3.5	70	10.3	67	18.6	66	5.8	83	9.6	76	10.3	83	20.8	73	5.1	122	14.9	76	10.4	77
2004	2.5	87	8.3	54	15.3	89	3.5	116	16.1	73	32.5	74	46.0	76	5.0	62	18.1	68	15.7	73
2005	5.0	100	14.2	71	19.2	72	3.8	99	31.5	76	36.1	70	39.7	83	12.6	73	11.7	62	18.9	75
2006	9.0	106	11.3	72	9.7	77	1.8	103	16.4	81	8.9	71	9.6	70	4.9	85	22.2	50	10.5	70
2007	3.9	94	15.6	68	32.2	53	9.4	64	19.6	66	22.4	69	19.9	79	10.4	63	20.0	47	16.3	64
2008	20.1	69	21.5	73	19.7	67	11.4	75	18.6	85	13.1	92	28.8	78	24.2	71	18.9	67	18.9	76
2009	19.0	101	9.3	92	11.7	72	1.1	75	9.4	64	5.6	94	11.5	82	16.1	77	30.0	64	11.8	78
2010	10.7	83	19.2	86	11.9	54	4.3	61	24.3	53	19.3	71	33.9	40	19.0	40	12.4	57	17.3	61
2011	9.0	67	8.5	92	14.7	69	14.4	70	14.7	83	14.4	100	14.2	75	22.2	78	27.2	87	15.4	83

TABLE 3.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Red Drum (cont.)																				
2012	11.0	74	20.3	72	9.4	97	5.8	65	8.1	74	6.3	97	12.5	65	6.0	61	28.9	42	12.9	64
2013	5.7	91	21.0	53	3.1	85	6.5	51	15.1	91	4.3	88	3.9	94	8.3	78	24.3	56	12.2	65
2014	6.7	65	14.6	66	3.6	90	4.0	52	47.4	43	50.1	52	23.8	69	13.2	61	42.8	48	24.9	53
2015	9.4	82	18.2	70	6.4	76	5.0	70	22.8	69	58.9	46	10.8	64	9.9	88	12.5	86	19.0	63
2016	11.0	85	28.3	51	15.6	64	11.4	72	36.9	69	21.4	70	32.4	53	16.0	62	17.2	58	22.2	61
Spotted Seatrout																				
1977 ^a	ND		30.7	87	ND		39.4	84	50.0	73	0.9	99	7.3	85	18.2	83	4.5	85	22.8	83
1978	ND		33.3	52	ND		5.6	86	11.1	69	7.9	51	4.5	59	14.4	93	2.3	52	13.3	64
1979	ND		37.5	79	ND		2.8	83	12.0	70	7.3	68	16.1	53	13.5	80	1.6	86	14.8	75
1980	ND		17.1	72	ND		3.5	84	21.3	71	11.1	74	11.1	79	3.5	56	0.3	60	10.1	73
1981	ND		16.9	85	ND		6.5	110	8.7	68	14.3	70	11.6	65	3.9	73	6.3	84	10.4	81
1982	ND		36.7	82	ND		6.7	99	19.2	62	15.3	76	3.9	75	5.4	78	3.7	76	15.4	80
1983	ND		25.6	84	4.0 ^b	101	7.2	73	8.3	72	13.9	81	4.3	79	4.6	101	5.3	80	11.3	82
1984	ND		6.9	71	2.9	85	4.3	77	1.1	83	13.1	74	1.5	55	1.7	88	6.7	98	5.4	78
1985	ND		4.4	80	23.6	73	10.8	87	3.6	64	23.6	61	3.3	50	9.4	70	1.7	78	8.7	70
1986	1.7	67	2.2	85	17.2	66	4.7	71	5.3	78	11.9	60	4.2	68	1.4	72	1.7	58	4.7	68
1987	1.9	92	22.2	73	13.6	68	3.3	83	19.4	70	13.1	69	10.0	76	0.8	104	2.8	63	10.9	72
1988	7.0	88	6.5	88	14.5	75	4.8	96	7.0	67	27.8	68	7.0	65	5.1	65	2.7	87	8.8	74
1989	4.9	63	5.6	79	14.4	80	6.3	69	20.6	61	15.7	71	6.0	71	3.9	51	1.6	56	8.4	68
1990	2.6	69	5.2	56	10.1	74	8.2	66	8.3	61	14.4	61	13.0	65	2.1	54	0.5	86	7.0	63
1991	1.4	67	16.5	63	13.5	71	15.1	70	33.9	59	20.1	65	7.8	72	6.3	63	1.7	59	14.3	64
1992	1.5	73	6.3	73	3.9	82	9.8	59	41.9	52	12.2	64	7.6	69	17.9	50	2.2	54	12.3	58
1993	4.6	84	5.9	61	19.2	71	6.1	62	15.3	54	11.9	68	7.1	69	14.3	59	6.7	49	9.3	61
1994	2.8	73	4.7	64	13.1	78	12.9	68	12.1	66	28.5	76	6.8	70	5.3	79	1.4	51	9.9	71
1995	16.8	70	5.3	77	23.3	76	17.2	63	16.3	77	32.6	69	4.7	86	19.3	73	3.5	75	14.3	71
1996	3.3	92	6.3	52	16.7	93	10.6	69	16.4	67	12.1	79	2.8	76	8.8	74	1.8	74	8.4	71
1997	2.6	96	15.1	61	16.9	76	12.6	64	16.0	66	29.4	73	9.4	67	8.5	74	1.8	60	13.3	68
1998	4.3	104	10.6	69	23.3	82	15.3	71	18.5	72	16.5	76	8.5	81	17.9	75	2.9	57	12.7	74
1999	4.3	100	8.1	71	20.3	63	11.3	72	24.2	66	12.9	72	5.4	80	21.3	67	2.9	60	11.8	69
2000	2.2	77	9.7	71	6.7	75	7.9	70	13.6	72	8.9	74	3.5	94	21.4	67	1.5	65	9.0	71
2001	1.8	118	6.7	78	20.8	80	11.8	75	14.6	72	10.0	79	5.3	78	6.4	76	0.4	76	8.0	77
2002	1.0	80	10.0	83	20.6	72	8.6	78	15.8	67	13.2	74	6.4	75	10.0	80	0.6	81	9.3	76
2003	2.4	105	6.4	83	20.0	84	18.1	75	15.1	66	9.3	82	11.8	71	14.7	83	1.3	66	10.4	77
2004	3.5	117	9.0	73	13.1	74	9.4	75	15.7	70	11.3	77	13.1	78	16.5	80	2.1	54	10.3	75
2005	3.6	103	13.5	88	20.8	88	6.4	81	22.8	74	17.5	64	10.7	73	19.7	74	4.7	64	13.1	76
2006	2.2	103	12.1	79	11.1	82	7.4	76	6.7	70	16.1	69	6.4	69	11.9	71	4.0	61	9.3	73
2007	2.6	96	8.3	75	14.2	84	5.6	68	10.3	65	7.6	68	16.5	75	20.1	80	5.6	62	9.6	73
2008	1.4	106	13.1	81	16.9	70	5.6	65	11.1	86	42.5	67	15.8	75	20.0	75	6.9	48	15.5	72
2009	3.8	98	11.9	92	15.3	75	6.1	75	14.0	59	34.7	71	10.4	73	14.9	77	4.4	70	13.3	75

TABLE 3.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Spotted Seatrout (cont.)																				
2010	2.6	87	15.0	78	35.3	71	8.2	73	27.5	63	69.2	67	16.1	66	15.3	81	8.2	79	21.9	70
2011	3.6	80	20.4	49	11.1	63	6.9	64	20.0	65	50.3	66	9.9	58	23.3	64	9.7	69	19.3	62
2012	3.9	91	9.6	77	21.7	62	5.8	64	16.1	66	29.9	74	7.2	58	11.0	73	4.6	58	11.9	70
2013	2.6	84	11.1	95	16.9	56	2.6	79	14.4	74	25.0	74	3.5	85	8.5	56	5.8	50	10.2	75
2014	3.9	73	10.8	77	6.7	68	5.7	64	17.5	71	29.6	68	11.9	57	6.1	56	9.3	69	12.2	69
2015	4.2	80	15.7	80	5.3	95	8.1	78	22.9	70	48.2	70	15.4	63	30.0	68	5.7	59	19.1	71
2016	6.0	77	16.9	88	8.9	79	6.0	83	25.1	73	26.7	75	17.9	66	23.3	76	8.1	59	16.4	76
Black Drum																				
1977 ^a	ND		0		ND		10.6	147	6.1	179	1.5	142	0.9	150	0		0		2.7	152
1978	ND		46.5	95	ND		8.8	112	22.2	111	2.4	165	1.5	125	4.2	106	0		15.5	104
1979	ND		39.8	83	ND		12.0	106	5.1	97	1.4	85	8.2	89	5.6	140	18.5	98	15.6	94
1980	ND		3.7	93	ND		4.2	102	0		2.2	100	2.2	75	3.1	95	0.9	142	2.5	98
1981	ND		12.3	122	ND		11.3	111	1.6	141	5.1	141	1.7	113	11.3	44	5.9	130	7.8	109
1982	ND		4.2	124	ND		5.3	138	8.9	90	7.4	94	1.3	109	0.4	155	2.4	117	4.4	113
1983	ND		22.8	91	3.0 ^b	123	3.3	118	1.1	133	2.0	145	2.4	108	2.3	107	0.5	141	6.5	102
1984	ND		7.6	108	1.4	103	3.5	156	0		0.9	141	0		1.4	82	0.3	91	2.6	119
1985	ND		3.6	141	3.3	83	2.8	113	1.4	122	0.6	124	1.1	68	6.1	86	0		2.4	112
1986	1.7	141	1.9	107	5.3	85	0		1.4	149	0		0.3	96	1.7	68	1.1	145	1.2	110
1987	0		0.6	106	0		4.4	130	0.8	118	0		6.4	74	44.2	63	0.6	89	6.5	73
1988	1.7	146	5.3	107	4.6	94	6.3	126	1.9	132	2.4	128	1.9	112	8.0	90	1.9	153	4.1	114
1989	0		3.9	124	8.1	87	3.5	109	1.4	125	2.8	120	0.7	110	10.6	77	4.2	150	3.9	108
1990	2.8	128	4.3	100	41.3	75	14.4	117	6.4	123	1.9	120	15.1	64	833.0	45	6.9	126	101.6	49
1991	1.0	124	3.3	111	9.9	99	6.4	152	1.9	113	0.5	174	0.2	112	60.6	77	1.2	171	9.3	91
1992	0.4	123	0.3	142	2.8	114	1.3	146	3.1	23	0		2.6	70	6.4	59	3.8	118	2.1	80
1993	1.9	129	1.0	109	2.5	99	0.3	122	0.3	158	0.3	99	1.1	67	1.4	39	0.1	203	0.7	94
1994	1.5	119	4.4	78	30.8	84	12.6	70	7.4	94	6.4	74	4.2	78	4.4	38	0.6	101	6.5	76
1995	0.6	160	0.8	119	3.6	76	3.3	100	2.6	115	3.6	111	1.4	89	77.4	72	0.7	161	10.5	78
1996	1.1	149	4.7	77	1.9	104	1.3	95	1.1	87	1.1	77	0.3	106	51.1	63	1.0	131	7.4	68
1997	1.8	108	8.5	95	5.3	96	1.0	115	3.1	88	10.8	75	1.9	99	192.2	65	0.6	115	25.7	69
1998	0.4	147	1.0	140	6.9	81	1.7	103	2.8	111	1.7	110	4.4	96	77.5	46	1.4	102	10.5	57
1999	1.0	170	3.3	116	16.1	75	13.9	67	6.8	81	7.5	103	8.9	84	16.3	85	0.1	185	7.8	85
2000	3.3	120	19.3	79	19.4	77	15.4	87	11.4	79	8.8	92	3.1	107	15.0	58	0.4	97	11.5	80
2001	0.8	173	1.9	115	35.8	68	6.0	110	4.4	97	1.1	104	3.6	73	125.7	63	0.8	109	17.6	69
2002	0.7	121	2.2	131	6.1	87	1.3	155	1.3	123	1.5	85	1.4	108	3.6	116	0		1.8	118
2003	0.1	191	0.1	98	0.3	197	2.6	103	0		0.7	165	0.3	93	1.4	95	0		0.7	111
2004	1.4	147	6.5	98	3.1	130	2.9	111	2.6	104	0.6	107	0.4	83	27.1	64	0		5.4	81
2005	0.4	186	1.4	161	0.6	159	1.9	111	0.8	117	0.1	109	3.9	54	10.0	95	0		2.2	102
2006	1.7	165	4.0	100	2.2	102	11.9	78	3.9	139	5.1	107	6.7	71	488.8	51	0.4	139	59.0	55
2007	1.4	137	3.9	107	3.3	110	2.2	102	3.1	117	2.5	95	3.5	87	111.7	81	0		14.8	85

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Black Drum (cont.)																					
2008	2.1	140	14.7	67	2.2	79	2.4	121	8.5	92	2.1	91	1.8	91	4.9	78	0.3	159	5.6	80	
2009	6.7	130	2.8	100	3.3	83	1.1	110	1.7	124	2.6	122	0.8	110	16.1	86	0.4	93	3.6	99	
2010	1.5	159	3.6	132	5.0	122	1.1	117	2.6	113	0.8	142	0.4	117	14.0	123	0.1	162	3.3	125	
2011	0.8	135	1.9	109	0.3	62	0.8	146	2.8	89	1.9	136	0.4	176	32.9	64	0.1	183	4.9	77	
2012	2.4	148	6.0	106	16.9	84	7.4	74	11.5	96	4.9	97	2.9	72	140.1	55	1.3	93	21.0	64	
2013	2.1	124	9.4	103	3.3	85	1.4	130	7.2	115	5.4	105	0.1	134	229.7	55	0.8	128	29.7	63	
2014	1.3	141	1.1	138	0.6	112	0.7	105	0.6	172	1.7	167	0.3	142	6.5	81	1.3	68	1.6	101	
2015	1.0	134	1.5	132	0.3	157	1.4	96	1.3	95	0.1	166	0		2.6	80	0.4	125	1.1	107	
2016	0.7	148	2.8	121	6.4	116	1.8	114	-1.0	149	1.5	126	1.9	103	9.0	94	0.7	120	2.6	110	
Sheepshead																					
1977 ^a	ND		0		ND		1.5	128	0		0		0		0		0		0.2	128	
1978	ND		0		ND		0.3	86	0.5	68	1.2	55	0.9	59	0.8	122	1.5	61	0.7	69	
1979	ND		15.3	66	ND		0.9	94	6.5	63	2.5	56	18.3	41	0		0.9	50	6.6	59	
1980	ND		0.9	115	ND		0.7	163	1.4	41	0.8	51	0		0		0.7	61	0.7	91	
1981	ND		1.2	158	ND		1.8	68	0		0.8	95	0.7	41	0		1.2	92	0.9	92	
1982	ND		0.6	174	ND		0		3.3	67	0.2	62	0.3	50	0		0		0.6	90	
1983	ND		0.8	23	0.2 ^b	93	0.1	50	0.6	103	0.2	67	0.2	99	0		3.4	52	0.8	52	
1984	ND		0		0.3	178	0.1	90	0.8	30	0.3	36	0.2	30	0		0		0.2	47	
1985	ND		1.9	20	0.8	58	0.6	157	3.1	39	1.1	35	0		0		2.2	57	1.3	44	
1986	0		0.3	114	0.3	32	0.3	203	0.8	48	0.6	50	0		0		1.4	73	0.5	80	
1987	0		0		1.1	91	0.3	94	0.3	53	0		0		0		0.8	47	0.2	64	
1988	0		0.2	60	2.2	69	0.5	124	1.7	58	0.7	55	3.1	35	0		0.2	40	0.8	56	
1989	1.4	91	0.2	59	0.7	35	0.7	116	25.2	39	0.2	67	0		0		0.2	89	3.2	43	
1990	0.2	153	0.5	126	0.5	36	0.5	79	0.3	85	0.2	115	0		0		0.9	48	0.4	86	
1991	0.3	146	0.7	55	0		0.5	101	1.0	81	0.5	29	0		0		0.5	70	0.5	69	
1992	0.1	97	0		0.6	33	0.6	36	5.4	39	0.3	66	0.1	40	0		3.9	63	1.3	49	
1993	0.1	50	0.1	147	0.3	47	0		0.6	73	0.1	36	0.1	19	0.1	45	0.4	51	0.2	67	
1994	0.1	106	0.1	76	0.3	131	5.1	54	1.8	81	1.3	33	0.8	34	0.4	24	0		1.3	54	
1995	0.4	74	0.6	86	0		1.5	71	1.0	150	2.1	69	0.3	51	0.1	32	2.4	59	1.1	76	
1996	0.4	55	0.1	37	3.3	38	0.3	167	3.1	42	0.7	54	0.1	38	0		0.6	89	0.7	55	
1997	0.3	166	1.0	93	1.4	77	0.4	108	1.5	67	0.8	66	1.1	43	0.4	44	0.4	82	0.8	76	
1998	0		0.3	131	0.3	25	0		1.1	135	0		0		0		0.3	69	0.2	121	
1999	0.1	173	0.3	157	0.3	72	0		6.9	34	1.4	37	0		0.7	49	0.1	18	1.1	43	
2000	1.0	109	0.6	173	1.1	32	1.0	55	0.8	62	0.4	149	0.3	154	0		1.1	69	0.6	94	
2001	0.3	155	0.1	193	0		0.3	122	0		0		0		0.3	42	1.8	58	0.3	80	
2002	0		0.1	92	0.8	43	0.1	93	0.1	144	0.7	59	0.7	74	0		1.0	65	0.4	70	
2003	0.6	159	0.1	21	0.3	115	0.3	152	0.3	73	0.1	24	0		0		0		0.1	93	
2004	0		0		0.3	38	0		0.3	139	0.1	36	0.1	39	0		0.3	70	0.1	80	
2005	0		0.3	41	0.8	70	0.3	75	1.5	62	0.4	65	2.8	40	0		0.1	39	0.6	52	

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Sheepshead (cont.)																					
2006	0.6	122	0		0.3	42	0.1	189	1.7	73	1.0	44	0.8	60	0		0		0.4	69	
2007	0		0.1	30	1.1	91	0.4	131	2.2	171	0.7	107	0		0		0		0.5	138	
2008	0.1	155	0.1	38	1.9	51	0.3	181	2.5	61	1.5	63	0.1	71	0		2.5	62	0.9	66	
2009	0.4	147	0.6	116	6.7	36	0.4	129	2.8	41	5.3	68	0.7	50	0.1	61	0.3	68	1.5	64	
2010	0.1	103	0.3	116	5.0	49	1.0	138	5.3	54	60.4	38	1.0	43	0.7	64	5.4	62	9.8	43	
2011	0.1	188	0.1	35	1.9	27	0.6	84	3.1	65	9.6	75	0.6	38	0.6	36	2.2	59	2.2	68	
2012	0.1	84	0.3	34	0.8	77	0.3	170	0.4	57	1.3	123	0		0.1	34	0.8	43	0.5	85	
2013	0		0.1		2.2	44	0.1	89	1.0	77	0.6	87	0.1	33	0.4	47	0.4	66	0.4	68	
2014	0.4	171	0.7	55	14.2	32	0.7	45	11.1	44	4.6	41	0.4	47	0.1	42	5.7	52	3.3	44	
2015	0		0.7	70	0.8	111	0.1	143	3.1	108	2.6	92	0		0.1	146	1.0	80	1.0	95	
2016	0.3	64	0.7	77	2.2	80	1.3	84	7.1	68	21.0	40	0.6	89	0.1	50	5.1	59	4.7	51	
Southern Flounder																					
1977 ^a	ND		0		ND		0.8	171	0		0		0		0		0		0.1	171	
1978	ND		8.1	40	ND		0.3	43	3.5	37	0.3	98	0.6	44	0.4	128	1.1	46	2.6	43	
1979	ND		0.9	85	ND		0.2	135	2.3	85	0		1.0	122	2.4	46	1.1	38	1.1	71	
1980	ND		9.7	54	ND		0.7	38	2.3	55	0		2.8	64	1.4	43	4.9	38	3.7	51	
1981	ND		4.8	57	ND		6.5	81	2.0	53	2.1	90	0.7	67	1.2	66	11.4	55	4.4	66	
1982	ND		9.4	67	ND		3.5	82	6.1	56	17.9	37	1.7	62	1.3	53	12.4	39	8.0	49	
1983	ND		9.6	46	1.2 ^b	75	1.8	54	3.1	58	5.7	39	0.8	34	0		2.3	45	3.9	46	
1984	ND		2.4	83	2.1	69	1.0	78	1.4	67	2.6	62	2.5	45	0.8	86	0.8	64	1.7	68	
1985	ND		4.3	59	4.7	78	2.5	112	0.6	44	6.9	55	5.3	55	0.3	71	1.9	67	3.3	65	
1986	2.5	83	3.6	83	5.8	70	16.7	59	2.2	78	3.9	65	1.9	54	0.6	79	12.5	44	6.1	60	
1987	2.5	47	20.6	51	8.9	54	1.1	62	2.8	44	1.1	103	1.4	37	1.1	69	2.8	56	5.9	53	
1988	15.5	66	14.3	61	3.1	76	3.1	85	2.7	69	5.3	48	0.7	65	0.5	60	5.3	60	5.9	63	
1989	9.5	71	3.0	62	9.7	60	3.5	67	10.0	51	23.6	38	8.1	53	0.2	106	1.9	62	7.1	50	
1990	11.6	68	21.7	59	12.2	53	15.5	48	10.9	50	3.1	55	11.6	46	3.8	67	9.4	51	11.9	54	
1991	7.5	58	5.4	34	7.3	56	2.6	53	1.8	94	0.9	55	1.9	46	0.2	27	2.3	60	2.8	49	
1992	6.8	66	3.2	41	2.5	67	2.0	34	3.3	48	0.7	41	4.9	44	0.1	22	0.3	56	2.2	46	
1993	4.0	95	6.1	56	5.3	45	6.0	46	3.5	47	1.5	57	2.9	69	0.1	130	1.5	54	3.5	55	
1994	2.2	94	4.0	62	2.5	31	2.6	50	2.5	46	4.9	54	6.4	42	0.3	34	2.1	78	3.2	55	
1995	4.3	65	4.0	59	5.0	63	3.3	55	0.7	42	5.7	41	4.7	47	0.7	58	0.4	93	3.0	53	
1996	5.3	85	9.2	45	5.3	88	8.3	55	9.3	50	2.5	53	7.5	48	1.0	72	4.2	54	6.6	53	
1997	4.2	129	7.8	59	8.6	62	7.8	51	6.1	61	3.3	45	6.9	48	1.7	62	3.3	34	5.7	56	
1998	7.1	83	11.9	52	6.1	68	4.6	52	4.6	48	6.0	45	0.4	57	1.1	84	1.8	50	5.6	54	
1999	2.4	113	8.2	78	3.6	48	3.3	64	5.3	46	3.9	43	2.4	52	0.8	84	2.2	39	4.2	63	

TABLE 3.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		East		<u>Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>	
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha
Southern Flounder (cont.)																						
2000	2.9	80	4.6	68	1.1	54	1.7	42	3.8	53	0.6	64	1.9	60	0.1	31	0		2.1	61		
2001	5.0	75	6.9	58	4.4	58	7.4	55	7.1	50	2.2	53	3.5	53	0.6	70	5.4	40	5.0	54		
2002	3.6	95	5.7	59	3.6	47	1.8	54	7.2	45	0.7	104	0.6	61	0.3	121	1.1	109	2.9	63		
2003	5.3	64	11.0	56	2.8	52	3.2	44	1.8	40	2.8	42	1.3	95	0		0.4	64	3.8	54		
2004	1.7	108	3.1	67	2.2	54	1.3	68	1.4	76	3.3	60	1.3	43	0.4	60	1.0	73	1.9	66		
2005	3.3	90	3.1	87	6.1	69	1.0	58	4.9	41	3.8	43	3.5	48	1.0	81	1.8	56	2.8	61		
2006	1.4	118	3.1	60	0.3	74	4.4	62	0.8	33	1.4	37	0.6	116	0		0.6	58	1.7	60		
2007	1.4	99	6.0	67	1.9	70	11.3	36	1.9	45	2.1	57	2.4	48	0.3	60	2.2	59	4.0	51		
2008	1.8	49	3.1	63	3.3	62	1.7	47	1.0	51	0.4	51	0.7	58	1.8	51	1.8	67	1.7	58		
2009	3.5	60	2.1	74	1.9	61	1.8	39	0.8	34	0.7	64	2.2	48	0.1	56	0.4	94	1.3	59		
2010	4.4	47	9.0	42	2.5	42	1.0	78	2.4	39	3.6	55	2.8	68	2.2	64	2.2	52	3.8	49		
2011	3.2	97	2.4	100	3.9	53	1.1	62	2.4	72	0.6	108	1.1	46	1.0	78	1.5	53	1.6	78		
2012	3.9	58	5.1	62	1.1	76	0.4	59	0		0		0.1	76	0		0.6	110	1.4	65		
2013	1.3	60	3.5	67	0.6	43	3.6	45	0.1	38	0.3	66	1.8	42	1.3	49	1.4	55	1.8	56		
2014	8.3	59	3.1	93	1.4	44	0.6	74	4.9	54	4.2	61	1.4	76	3.8	60	1.1	118	2.9	70		
2015	5.4	67	5.8	44	1.1	72	0.8	81	3.2	43	4.0	58	1.7	54	4.2	55	2.9	54	3.4	52		
2016	1.0	120	1.7	64	0.3	149	0.8	55	0.1	29	0		0		0.4	147	0.1	181	0.6	76		
Atlantic Croaker																						
1977 ^a	ND		21	96	ND		0		0		1	36	11	50	2	181	5	83	7	84		
1978	ND		309	61	ND		239	59	10	100	44	73	1	30	11	85	29	38	120	61		
1979	ND		463	52	ND		109	74	52	48	7	76	25	65	3	92	190	44	157	54		
1980	ND		1087	55	ND		82	68	18	90	17	56	24	49	1	41	201	42	291	55		
1981	ND		526	57	ND		24	94	26	73	25	42	20	55	1	112	38	47	136	58		
1982	ND		1531	62	ND		165	73	67	67	139	61	31	54	0		57	53	409	63		
1983	ND		881	55	55 ^b	79	236	66	63	80	62	62	6	61	3	86	50	51	252	59		
1984	ND		728	59	176	64	443	60	25	83	137	68	174	54	4	102	122	59	285	60		
1985	ND		271	65	121	63	299	72	13	88	46	78	4	77	11	87	87	42	129	66		
1986	126	74	148	77	198	68	2128	52	18	99	12	72	12	78	0	89	62	57	362	55		
1987	79	70	335	54	110	56	207	78	33	47	9	81	4	40	0	60	10	62	113	61		
1988	154	68	485	53	160	51	60	80	13	67	3	50	8	50	0		15	63	125	56		
1989	111	56	36	77	190	45	22	56	9	49	18	62	10	61	0		9	38	27	59		
1990	96	66	316	51	117	46	82	68	24	32	58	65	14	59	2	78	46	62	103	55		
1991	209	57	635	52	343	47	1093	58	157	57	63	63	35	66	11	36	169	46	362	55		
1992	225	56	501	47	450	47	626	48	430	47	210	44	95	50	13	54	157	44	325	47		
1993	214	64	358	50	421	44	216	47	49	47	25	66	25	53	2	67	195	40	164	48		
1994	254	53	228	49	186	58	307	43	59	46	74	38	25	37	6	44	123	46	143	46		
1995	357	57	112	48	247	50	110	57	37	59	36	69	24	35	2	58	178	41	95	50		
1996	742	59	453	47	290	50	147	63	37	54	35	60	6	44	3	65	112	44	184	51		
1997	248	49	234	59	286	52	176	50	52	56	57	66	4	56	6	71	223	46	138	54		

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Atlantic Croaker (cont.)																					
1998	178	57	275	53	223	48	177	58	30	60	24	50	59	46	26	49	85	49	122	54	
1999	128	58	223	57	164	52	221	56	65	55	61	51	11	66	11	63	74	47	117	56	
2000	261	61	59	68	129	51	70	47	11	60	16	55	9	68	1	41	12	57	43	58	
2001	141	65	280	54	212	48	436	56	22	65	51	41	23	31	1	53	63	50	153	54	
2002	213	58	153	58	91	53	93	48	18	62	20	61	55	40	1	68	47	44	75	54	
2003	209	63	262	50	174	56	214	54	32	51	25	47	61	54	3	65	359	49	158	52	
2004	114	64	110	56	90	63	89	66	13	46	30	55	19	49	15	55	42	54	58	59	
2005	382	61	441	56	97	59	43	67	76	53	82	46	48	67	13	51	123	47	158	55	
2006	173	68	146	61	87	58	75	63	20	60	35	48	6	67	4	50	113	49	75	59	
2007	188	64	236	59	87	56	256	67	15	62	32	58	18	63	1	64	79	42	117	60	
2008	245	58	173	68	133	53	126	47	16	46	32	57	6	50	3	61	151	44	101	57	
2009	211	62	138	67	134	49	74	52	5	61	33	53	14	56	21	57	127	50	82	57	
2010	191	57	458	60	182	51	406	59	29	71	105	60	61	57	114	48	99	49	217	58	
2011	298	61	461	57	262	52	155	52	25	60	67	46	68	46	49	54	148	43	182	54	
2012	136	70	237	71	389	58	345	63	80	67	91	62	35	59	3	55	124	40	159	63	
2013	149	64	147	80	84	61	64	58	39	51	26	63	15	90	3	43	77	50	68	68	
2014	529	62	564	60	257	50	349	49	347	56	447	57	138	52	121	50	112	51	336	56	
2015	441	57	768	56	345	49	419	49	358	49	358	51	119	40	180	46	379	45	418	51	
2016	406	59	324	63	360	50	178	57	202	49	105	44	38	55	54	52	257	43	201	55	
Sand Seatrout																					
1977 ^a	ND		0		ND		10.6	61	0		0		0		0		0		1.7	61	
1978	ND		14.4	58	ND		3.3	59	0		0		0.3	53	0		0		3.8	58	
1979	ND		35.2	58	ND		14.1	70	2.3	75	0.3	33	0.6	77	0		0		10.5	62	
1980	ND		7.9	61	ND		6.9	82	0.5	64	0.3	89	0		0		0		2.9	73	
1981	ND		20.6	60	ND		2.4	72	0		0		1.0	76	0		0.2	78	5.1	62	
1982	ND		47.2	57	ND		11.7	67	0.3	35	0.6	76	0.3	73	0		0.4	65	12.6	59	
1983	ND		46.8	53	9.7 ^b	59	30.3	65	0.3	47	0.7	70	1.9	53	0		0		15.3	58	
1984	ND		61.0	55	8.2	66	29.2	54	0.8	59	0		0		0		7.3	41	19.0	54	
1985	ND		10.3	60	8.3	59	12.5	71	0		0.3	67	0.6	83	0		0.3	60	4.5	65	
1986	6.4	71	8.9	50	4.2	60	8.6	64	0		0		0.3	57	0		0		3.5	57	
1987	4.4	63	15.6	59	10.6	61	13.6	65	1.1	61	0		0		0		0		5.9	61	
1988	5.3	54	5.1	53	37.7	40	6.0	66	0.5	69	0		0		0		0		3.4	52	
1989	8.3	54	43.1	55	6.9	66	3.7	68	0.5	31	0		0.2	106	0		0		10.1	56	
1990	24.1	52	75.0	46	10.2	59	12.3	55	0.7	36	0		0		0		0		18.8	47	
1991	6.6	48	76.2	55	24.8	59	39.1	56	0.5	76	2.8	50	1.6	42	0		0.3	66	23.2	55	
1992	7.2	54	30.0	53	10.0	52	36.0	54	0		0.1	81	0.7	61	0		0		12.1	53	
1993	7.4	58	52.9	48	19.2	53	88.5	53	4.0	64	0.4	96	1.3	57	0		2.4	54	25.6	51	
1994	3.5	61	33.5	48	15.6	70	28.8	56	0.3	70	0.4	64	0		0		0.1	53	11.9	52	
1995	13.9	50	58.6	44	52.5	38	36.8	59	0.1	56	0.1	64	0		0		0.6	57	19.9	48	

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Sand Seatrout (cont.)																					
1996	16.4	63	18.1	50	19.7	51	5.7	57	0		0		0.7	62	0		0		6.0	52	
1997	10.7	48	27.1	54	12.2	49	35.8	52	1.7	55	1.9	64	0.1	71	0		0.3	38	12.3	53	
1998	10.8	54	47.8	47	19.2	56	22.2	47	0		0.8	65	0.3	79	0.3	39	0.8	72	14.8	49	
1999	20.3	53	49.9	48	28.1	52	5.1	58	0		0		0		0		0		12.8	49	
2000	12.1	58	11.3	61	12.8	51	1.8	67	0.3	51	0		0		0.6	45	0		3.7	60	
2001	16.9	54	9.9	64	15.8	59	16.3	51	0		0		0.4	44	0		0		5.7	57	
2002	13.8	49	35.6	59	34.2	55	20.0	51	2.1	52	1.1	79	20.7	81	0.1	45	0		14.4	60	
2003	8.8	52	19.9	53	7.8	58	5.0	64	0		0		0.6	45	0		0		5.6	55	
2004	10.6	54	23.1	51	15.3	63	13.2	62	1.0	58	1.7	64	1.9	53	0		0		8.3	55	
2005	8.5	55	8.3	59	5.0	65	5.6	64	0.1	61	0		0		0.1	43	0		3.2	61	
2006	13.1	55	9.7	58	2.5	68	1.7	65	0		0		0		0		0		3.0	58	
2007	9.4	51	34.7	56	23.3	53	23.6	50	0.1	58	1.0	67	0.6	68	0.3	34	0		12.6	54	
2008	14.2	60	18.6	55	10.3	63	8.9	54	0.1	67	0.3	84	0.3	33	0		0		6.9	56	
2009	19.0	54	34.2	64	6.4	57	19.2	56	0		0.7	72	0		0		0		11.0	61	
2010	12.6	55	24.9	52	11.9	57	6.1	55	0.6	71	0		0		0		0		7.3	54	
2011	9.4	68	13.9	53	1.1	56	0.7	64	0		0		0.1	50	0		0		3.4	55	
2012	20.7	58	32.1	51	1.9	66	10.6	56	0.3	53	0.3	53	0.1	52	0		0.4	61	9.3	53	
2013	32.6	71	21.3	62	2.8	68	2.4	58	0		0		0.1	77	0		0		6.2	64	
2014	46.0	52	13.2	59	11.9	54	4.0	66	0.1	37	0.3	46	0.1	30	0		0.7	61	5.7	57	
2015	14.3	46	38.9	56	13.1	59	32.9	64	2.6	35	0.4	56	0		0.1	72	0		14.3	58	
2016	13.3	57	34.2	62	15.0	59	18.9	60	0.3	36	0.6	66	0.1	66	0		0		11.0	61	
Gulf Menhaden																					
1977 ^a	ND		23	76	ND		0		0		0		0.9	58	0		0		5.2	75	
1978	ND		502	31	ND		3,963	47	169	64	5,449	44	2	41	44	42	71	29	1,550	45	
1979	ND		122	53	ND		867	43	0		792	38	321	38	6	37	1	31	307	41	
1980	ND		21,505	46	ND		115	50	24	52	48	30	7	49	4	40	55	31	4,867	46	
1981	ND		196	45	ND		348	47	52	41	340	48	8	41	127	42	10	38	171	46	
1982	ND		4,767	49	ND		820	48	1,008	37	135	33	1,485	36	9	31	115	32	1,498	46	
1983	ND		4,916	66	1,316 ^b	44	809	44	66	42	15	34	648	33	2	31	5	47	1,303	59	
1984	ND		1,659	44	482	48	1,942	45	1,084	42	779	39	489	52	128	49	60	56	973	44	
1985	ND		423	45	243	43	3,819	50	868	45	48	39	122	37	62	44	20	49	805	48	
1986	2,757	50	3,024	38	1,502	37	4,595	50	612	37	27	34	11	46	36	44	12	36	1,530	44	
1987	633	47	264	50	755	49	3,585	59	35	40	68	36	11	34	32	63	18	27	642	57	
1988	600	40	2,625	45	438	41	363	60	0	43	80	30	1	44	14	31	81	35	660	45	
1989	526	48	782	42	386	51	187	45	53	37	44	37	11	43	2	45	72	39	245	43	
1990	774	49	5,106	43	640	44	515	57	797	71	943	35	869	32	21	38	0	38	1,486	44	
1991	270	41	4,298	40	1,258	42	3,028	42	308	42	569	41	244	38	123	36	0		1,532	41	
1992	593	45	6,025	37	291	36	1,919	38	1,810	35	259	33	43	46	4	30	21	40	1,817	37	
1993	1,853	48	7,341	40	509	36	492	46	191	38	634	66	158	38	13	39	107	35	1,822	42	

TABLE 3.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Gulf Menhaden (cont.)																					
1994	72	51	5,182	48	222	41	413	57	138	39	263	33	15	45	32	33	0	49	1,207	48	
1995	399	46	6,155	39	2,382	50	718	36	140	48	374	37	83	40	133	34	4	48	1,570	39	
1996	1,271	44	7,928	39	554	36	1,484	40	202	33	179	41	459	31	68	30	3	32	2,016	39	
1997	371	45	1,733	54	551	43	2,297	36	473	46	142	40	472	51	56	51	224	31	889	45	
1998	2,288	39	10,246	35	1,113	39	949	50	1,287	38	388	40	886	35	5	36	13	37	2,653	36	
1999	954	42	1,824	47	114	37	399	43	22	40	56	36	81	55	484	43	77	39	557	46	
2000	986	41	556	57	548	44	72	58	43	38	85	39	14	55	21	36	8	32	202	51	
2001	3,145	50	1,570	43	514	39	4,190	51	227	45	84	37	43	52	166	36	3	32	1,122	48	
2002	3,943	44	3,630	52	1,452	46	244	44	112	42	108	66	289	33	8	38	19	32	1,053	50	
2003	1,346	57	2,855	49	366	46	253	48	329	37	91	31	421	35	14	39	176	31	809	47	
2004	2,798	38	220	39	264	38	221	44	56	36	306	37	15	35	1	42	12	53	249	40	
2005	1,988	44	625	48	31	48	180	47	85	60	60	33	5	50	5	37	25	40	255	47	
2006	632	41	764	60	123	44	124	52	63	38	17	34	18	75	19	40	36	37	221	55	
2007	1,401	51	1,609	44	80	41	568	43	111	46	138	39	19	45	3	45	38	48	510	45	
2008	1,023	53	451	40	13	47	75	40	25	47	188	33	47	40	7	30	3	34	187	42	
2009	1,189	40	3,473	40	35	53	229	64	11	41	45	33	75	36	4	33	2	43	822	41	
2010	2,260	46	6,025	54	154	37	532	48	357	49	340	52	224	46	210	37	2	41	1,546	53	
2011	5,536	47	1,565	46	583	35	122	50	9	35	20	33	46	46	451	42	2	44	695	46	
2012	5,772	49	4,880	41	275	39	687	43	395	49	213	42	37	36	17	37	6	56	1,420	42	
2013	1,300	45	975	49	36	49	117	42	32	35	257	50	129	36	33	29	21	30	331	47	
2014	24,098	42	3,156	48	213	38	1,001	45	8,460	41	179	39	21	53	62	45	12	48	2,765	43	
2015	10,600	40	3,033	44	247	37	929	49	306	47	871	38	5	62	77	36	62	36	1,372	43	
2016	13,665	37	1,426	43	286	55	1,003	49	473	49	46	47	1	59	152	32	14	37	1,047	41	
Pinfish																					
1977 ^a	ND		0		ND		32	114	24	105	20	105	65	93	209	102	13	101	44	103	
1978	ND		121	55	ND		24	61	77	75	54	74	133	69	41	84	7	64	67	67	
1979	ND		73	75	ND		43	79	60	79	45	85	102	61	14	70	1	107	48	75	
1980	ND		152	38	ND		16	50	363	57	166	66	253	61	17	88	139	58	150	57	
1981	ND		269	55	ND		68	69	131	70	107	85	277	66	41	84	135	75	152	67	
1982	ND		144	67	ND		34	66	590	55	457	67	256	62	100	73	365	57	262	62	
1983	ND		137	65	61 ^b	79	115	80	507	49	640	68	596	66	25	82	209	68	283	66	
1984	ND		237	59	159	64	98	71	172	66	425	62	180	54	147	79	116	77	200	65	
1985	ND		332	55	401	65	209	71	396	55	274	66	234	67	133	68	261	66	274	62	
1986	64	74	183	61	676	64	110	59	161	66	696	59	304	58	245	62	329	63	286	61	
1987	8	72	50	64	227	57	44	68	442	63	321	67	463	58	43	56	339	64	207	63	
1988	8	84	128	61	373	62	43	77	246	63	589	62	983	54	312	59	660	60	357	60	
1989	24	75	80	62	359	58	308	53	611	61	301	63	361	57	60	71	251	61	254	60	
1990	37	75	182	58	500	61	251	65	552	52	609	55	566	57	392	62	669	60	416	58	
1991	8	79	138	58	307	60	39	68	247	65	119	61	432	63	240	69	696	57	243	61	

TABLE 3.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Pinfish (cont.)																				
1992	12	73	96	46	371	56	67	49	431	53	537	59	475	50	174	59	531	58	292	55
1993	27	78	310	49	139	59	150	53	368	60	564	56	482	54	307	59	452	60	344	56
1994	9	70	164	50	285	66	125	57	174	58	463	58	408	58	102	56	359	56	237	57
1995	12	86	159	49	284	52	74	51	308	59	334	64	324	54	165	59	247	60	212	57
1996	76	74	88	51	71	53	35	53	243	50	248	59	420	51	755	59	471	54	269	55
1997	9	75	56	70	200	59	33	61	240	65	371	56	323	62	250	64	395	55	205	60
1998	52	77	227	55	589	53	81	65	387	59	705	62	551	58	214	59	434	56	342	58
1999	12	87	62	62	288	50	133	53	475	56	317	63	476	66	83	60	204	60	213	60
2000	42	78	128	56	328	58	103	57	478	53	352	57	354	61	29	64	102	70	200	58
2001	50	75	240	60	261	61	282	54	842	57	434	63	968	50	495	59	521	53	457	56
2002	74	79	189	60	689	52	174	63	710	56	581	61	785	55	267	66	552	60	413	59
2003	29	82	251	59	147	59	135	60	642	57	758	59	574	53	722	61	673	54	464	58
2004	23	84	58	58	561	50	108	61	969	57	916	57	605	56	88	72	120	61	353	57
2005	30	83	138	58	275	62	104	60	681	62	825	59	864	53	375	60	302	57	393	58
2006	49	75	123	61	276	61	64	63	229	60	254	64	359	55	520	61	643	59	275	60
2007	34	79	105	64	171	66	89	70	496	62	590	64	992	57	530	68	360	61	365	63
2008	28	76	142	61	374	59	28	57	235	61	243	64	551	59	245	65	144	61	198	62
2009	76	72	113	62	543	52	64	60	586	53	207	62	627	56	266	66	216	60	257	58
2010	16	81	144	63	274	65	23	63	538	61	333	67	657	57	183	69	127	66	240	62
2011	121	61	181	58	319	51	121	59	959	57	1,144	56	788	60	699	49	205	56	501	56
2012	23	103	305	61	338	63	287	54	816	60	852	60	1,147	50	456	59	278	58	505	58
2013	63	77	183	60	164	63	59	64	442	66	732	54	767	53	549	58	254	55	360	58
2014	43	66	243	61	174	62	98	68	404	66	323	58	618	57	291	58	172	61	267	61
2015	48	81	312	66	89	53	82	59	857	62	612	65	333	64	450	68	94	61	349	64
2016	88	84	328	48	273	72	66	72	778	71	854	63	524	62	296	70	113	64	382	63
Spot																				
1977 ^a	ND		49	100	ND		23	119	0		3	170	12	100	0		2	125	16	107
1978	ND		395	52	ND		182	49	361	48	82	55	310	47	227	59	149	52	250	51
1979	ND		352	42	ND		21	64	201	44	58	60	201	56	107	70	50	60	154	51
1980	ND		268	57	ND		76	56	256	51	100	61	94	58	86	59	165	48	160	55
1981	ND		330	52	ND		154	57	135	64	100	54	102	59	115	63	228	67	184	58
1982	ND		403	62	ND		143	58	464	52	618	54	215	60	180	58	315	66	344	58
1983	ND		454	57	51 ^b	64	95	58	167	47	340	56	147	55	57	60	773	63	305	58
1984	ND		213	53	83	61	129	59	237	46	596	56	478	58	471	66	869	67	394	60
1985	ND		181	62	158	59	209	59	274	44	254	65	227	55	80	77	169	54	197	58
1986	118	65	135	68	319	57	821	51	102	58	258	51	160	60	114	55	614	54	313	54
1987	19	80	264	60	383	60	83	59	203	49	476	58	359	49	17	70	307	47	240	55
1988	44	82	229	69	210	66	116	64	132	54	361	59	158	65	212	54	269	59	209	61
1989	96	52	87	63	256	58	173	59	266	62	253	53	158	62	271	50	151	64	183	58

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Spot (cont.)																					
1990	16	70	222	62	525	54	327	57	691	51	566	52	826	49	685	57	854	55	524	54	
1991	22	65	274	56	305	59	130	49	198	69	295	53	273	51	174	54	950	51	314	54	
1992	27	70	211	55	89	61	63	53	194	59	164	53	387	45	219	58	347	54	204	54	
1993	32	83	164	56	288	55	123	53	149	50	185	59	281	58	221	62	341	53	197	56	
1994	55	78	367	49	161	61	99	61	127	56	310	61	248	59	66	60	369	54	231	55	
1995	15	104	171	50	199	56	254	49	77	65	191	59	301	53	145	59	218	57	184	55	
1996	185	69	827	43	394	44	340	48	321	50	245	55	524	46	223	54	272	56	417	48	
1997	5	102	89	67	174	57	169	47	69	59	229	59	481	55	451	58	782	46	277	53	
1998	46	74	217	58	264	57	243	50	391	55	256	58	576	51	197	61	219	60	274	56	
1999	18	86	143	61	151	52	92	56	155	57	233	53	340	59	80	57	121	62	152	58	
2000	14	72	94	62	168	60	119	60	79	56	105	56	159	62	7	76	53	61	88	60	
2001	64	77	312	61	250	59	650	45	518	56	297	63	412	54	343	61	1339	43	509	51	
2002	88	75	149	59	184	58	322	43	260	59	235	59	460	49	252	58	394	50	266	53	
2003	227	64	366	54	230	50	175	56	234	57	331	52	700	54	273	61	453	52	337	55	
2004	32	76	166	64	51	62	105	53	146	58	223	54	491	52	148	61	268	56	192	57	
2005	80	73	249	49	124	62	84	53	174	65	282	49	387	54	309	59	412	57	249	55	
2006	13	81	55	79	136	64	67	61	88	61	127	51	184	56	134	56	181	58	107	60	
2007	35	81	127	63	45	70	24	67	174	63	145	62	595	56	580	62	494	57	250	60	
2008	21	74	96	65	397	47	60	63	65	61	125	52	219	53	165	60	205	56	130	57	
2009	50	76	125	60	69	62	21	63	69	63	55	64	222	52	86	58	43	67	84	59	
2010	125	62	424	55	92	56	117	50	227	54	309	58	672	50	339	56	624	59	354	55	
2011	72	66	443	47	340	55	211	48	363	48	285	50	567	54	747	47	202	56	377	49	
2012	33	72	227	60	93	61	145	56	347	58	162	56	522	47	344	50	334	62	259	56	
2013	26	73	118	68	19	65	46	63	128	66	143	64	310	56	369	51	542	54	203	57	
2014	160	58	422	51	76	62	45	54	253	60	525	50	497	44	671	56	226	61	347	53	
2015	25	79	101	66	54	59	33	51	209	54	75	54	103	59	287	53	296	64	140	59	
2016	120	62	164	58	26	65	43	60	147	59	111	56	181	56	198	55	106	70	128	58	
Striped Mullet																					
1977 ^a	ND		28	140	ND		129	106	129	117	26	132	188	156	20	158	61	108	74	126	
1978	ND		64	120	ND		27	124	125	66	74	103	121	75	53	94	105	81	77	91	
1979	ND		135	89	ND		93	99	273	66	155	103	217	136	16	102	408	53	179	84	
1980	ND		94	117	ND		16	107	41	121	61	102	49	88	57	70	96	85	62	98	
1981	ND		228	57	ND		41	92	249	84	210	81	79	85	31	63	176	98	154	79	
1982	ND		128	67	ND		553	118	179	77	173	85	31	110	24	86	42	94	173	103	
1983	ND		86	94	62 ^b	105	26	136	57	64	107	106	35	61	15	99	46	84	57	97	
1984	ND		47	94	34	110	31	53	69	73	89	57	127	52	145	68	247	96	98	76	
1985	ND		80	109	199	88	48	92	22	133	95	58	22	62	70	53	117	81	73	83	
1986	84	103	34	133	20	144	23	86	37	93	22	91	62	67	23	57	41	66	35	91	
1987	48	98	244	75	59	88	33	96	63	115	127	73	141	56	94	36	72	103	116	75	

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Striped Mullet (cont.)																					
1988	42	80	115	115	69	90	44	64	16	116	84	49	189	49	64	63	26	124	74	80	
1989	61	68	41	96	40	60	25	82	10	146	77	47	131	49	61	33	78	58	55	61	
1990	42	87	194	71	151	81	21	71	47	100	156	41	304	45	226	59	114	89	143	63	
1991	83	78	234	80	161	60	79	65	73	97	40	88	136	41	284	50	49	126	133	71	
1992	23	94	149	79	97	78	52	78	72	81	131	79	141	50	70	53	44	99	94	75	
1993	71	83	105	83	84	74	41	77	62	71	67	86	133	49	70	36	39	78	74	71	
1994	56	75	102	66	29	70	59	75	35	92	53	66	136	48	62	47	221	42	91	57	
1995	63	99	45	71	73	84	23	70	20	123	57	45	19	59	20	57	29	49	35	68	
1996	92	70	166	43	217	44	30	67	7	135	17	73	131	55	24	75	36	58	72	52	
1997	37	82	120	66	143	79	62	81	72	94	118	90	151	48	94	73	34	109	93	75	
1998	36	79	180	73	41	92	29	80	126	59	50	91	424	48	23	83	76	72	114	65	
1999	29	83	23	101	16	112	15	86	19	100	25	61	45	61	26	95	95	75	35	81	
2000	32	73	17	88	53	49	16	63	78	58	23	70	12	114	37	60	22	82	29	68	
2001	121	64	79	72	190	47	92	67	262	58	45	94	90	53	183	70	542	38	177	55	
2002	34	89	41	121	44	63	31	106	52	62	53	97	36	55	73	52	159	58	60	75	
2003	51	83	45	95	49	128	13	98	30	84	51	79	104	57	115	61	253	45	79	64	
2004	28	89	47	93	27	105	10	115	61	59	45	90	44	83	26	63	84	70	43	80	
2005	39	84	39	85	14	123	34	79	38	88	19	108	80	67	64	55	38	82	41	78	
2006	28	57	23	81	10	131	4	132	25	50	52	43	34	67	177	72	265	76	73	71	
2007	32	94	86	90	30	96	25	94	107	79	63	99	105	65	176	57	283	80	109	78	
2008	23	81	40	105	47	65	22	97	19	110	21	106	112	44	50	109	103	67	51	79	
2009	23	60	15	139	26	84	8	112	42	50	7	114	71	58	35	79	127	69	40	75	
2010	35	82	75	90	5	133	17	95	143	74	124	89	185	71	156	56	126	61	102	74	
2011	42	75	58	81	7	98	5	106	50	79	58	143	66	63	63	66	64	68	49	84	
2012	36	76	49	104	31	115	8	92	50	72	61	87	138	97	98	47	110	61	64	78	
2013	29	62	26	92	6	83	5	99	24	92	75	58	62	76	386	44	227	55	98	55	
2014	40	102	30	105	21	125	3	114	108	51	161	47	359	53	100	78	103	69	97	61	
2015	40	101	40	135	9	119	7	131	123	54	56	53	51	70	26	81	96	65	52	76	
2016	29	100	17	108	14	116	7	129	53	79	11	91	16	113	39	93	191	75	44	84	
Total finfishes																					
1977 ^a	ND		972	56	ND		480	81	3,085	50	1,397	59	2,741	59	1,850	66	809	58	1,466	60	
1978	ND		3,949	49	ND		4,830	63	1,653	61	7,181	63	1,501	62	1,274	59	906	53	3,296	60	
1979	ND		3,134	59	ND		1,622	66	3,352	54	3,117	59	2,249	64	1,343	65	2,443	60	2,528	60	
1980	ND		25,282	74	ND		599	70	1,852	61	1,388	64	1,401	63	1,961	61	1,058	58	6,715	71	
1981	ND		3,294	60	ND		1,067	71	1,759	58	2,065	64	2,211	63	1,196	60	1,309	68	1,952	63	
1982	ND		8,679	66	ND		2,052	67	4,310	55	5,039	56	3,005	58	1,347	56	1,318	59	4,151	61	
1983	ND		8,587	68	1,999 ^b	60	1,836	72	2,127	54	3,941	62	2,256	56	728	59	1,702	65	3,524	65	
1984	ND		4,284	57	1,558	64	3,324	58	2,691	58	3,316	60	2,170	57	1,773	59	1,810	70	2,908	59	
1985	ND		1,986	62	1,906	65	5,109	73	2,187	58	2,499	58	1,420	56	1,522	53	1,446	58	2,370	63	

TABLE 3.—(Cont.)

Species Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Total finfishes (cont.)																				
1986	3,467	66	3,893	65	3,313	60	8,912	62	1,832	58	2,287	56	838	61	1,549	50	1,665	60	3,318	61
1987	1,140	63	2,208	62	2,474	61	4,323	72	1,327	62	2,027	57	1,354	54	1,007	45	1,559	59	2,064	63
1988	1,147	61	4,339	70	2,015	61	891	71	1,386	57	3,145	52	2,342	56	2,267	49	2,120	61	2,454	62
1989	1,231	60	2,132	62	2,086	58	1,345	62	1,994	60	2,070	53	2,001	55	2,359	45	2,334	55	1,998	56
1990	1,306	64	7,174	57	2,944	58	2,060	65	3,464	56	3,962	54	3,836	50	5,383	48	2,985	58	4,190	55
1991	709	58	7,510	60	3,440	61	4,996	67	3,076	60	2,288	56	2,250	58	2,964	49	4,000	52	4,129	59
1992	1,140	55	7,874	51	1,919	56	3,391	51	4,668	49	2,590	54	2,314	51	4,243	46	2,881	53	4,170	51
1993	2,469	61	9,372	54	2,526	52	1,688	56	2,275	53	2,832	59	2,389	52	4,101	48	2,733	51	4,031	54
1994	610	61	6,807	53	1,535	62	1,971	60	1,173	55	2,489	56	1,955	57	2,936	43	2,836	49	3,110	53
1995	1,332	61	7,380	57	5,019	63	1,936	54	1,545	60	2,927	57	1,816	56	3,596	47	2,995	49	3,550	55
1996	2,989	59	10,249	53	2,581	51	2,680	57	1,590	51	1,343	58	2,168	50	3,315	46	2,210	49	3,915	53
1997	965	56	3,109	64	1,911	60	3,243	54	1,784	58	1,889	59	2,420	56	3,595	50	2,422	49	2,604	56
1998	2,834	55	12,198	57	3,451	55	1,873	64	3,477	56	2,151	58	3,134	54	1,968	51	1,546	57	4,384	57
1999	1,660	54	2,834	58	1,712	56	1,592	58	1,825	60	1,340	59	1,551	65	2,124	49	1,379	55	1,874	57
2000	1,710	57	1,362	65	1,872	52	869	58	1,599	53	1,392	56	1,379	60	1,883	47	909	54	1,348	56
2001	3,720	62	2,959	58	2,045	55	6,949	54	2,609	58	1,509	62	2,381	54	2,595	54	3,479	46	3,255	55
2002	4,604	56	4,836	60	3,626	58	1,340	53	2,099	55	1,561	65	2,626	55	2,575	52	2,141	53	2,735	57
2003	2,189	67	4,463	57	1,826	61	1,284	60	2,648	52	1,960	56	3,151	52	2,182	59	2,977	49	2,715	56
2004	3,243	44	1,373	60	1,562	59	850	65	2,118	55	2,343	55	2,434	56	1,424	54	1,340	57	1,679	56
2005	2,784	61	2,731	63	921	63	739	64	1,736	64	1,887	56	2,436	58	1,864	55	1,563	53	1,877	60
2006	1,118	62	1,725	67	912	65	562	65	1,258	59	1,356	54	1,247	57	3,234	54	2,253	55	1,592	59
2007	1,863	61	2,781	61	1,129	61	1,343	58	1,457	61	1,905	60	2,444	60	3,221	55	1,962	58	2,120	59
2008	1,638	64	1,447	63	1,476	57	570	59	884	64	1,522	59	1,950	58	1,632	58	1,251	55	1,334	60
2009	1,789	54	4,315	51	1,237	57	662	61	1,301	57	1,138	57	2,227	54	1,623	54	1,123	57	1,936	54
2010	2,794	56	7,932	61	1,439	55	1,446	58	2,524	59	3,178	57	2,472	57	2,576	51	1,849	54	3,458	58
2011	6,268	63	3,325	61	1,810	53	795	55	2,390	56	2,674	57	2,176	60	2,918	53	1,353	56	2,488	58
2012	6,212	60	6,351	61	1,651	57	2,010	57	2,799	60	2,384	58	2,777	54	2,138	52	1,457	54	3,197	58
2013	1,979	62	2,215	63	742	54	1,072	58	1,956	62	2,753	54	2,282	56	3,600	48	1,633	51	2,116	56
2014	25,384	56	5,069	58	1,220	52	2,025	58	11,447	57	4,637	47	3,178	52	3,559	49	2,027	54	5,241	55
2015	11,646	60	4,749	59	1,239	55	1,951	58	3,292	58	4,101	53	1,953	55	3,356	52	1,562	54	3,439	57
2016	14,930	47	2,870	60	1,504	62	1,754	59	3,131	63	2,881	56	1,855	58	2,727	54	1,956	56	2,912	56
SHELLFISHES																				
Blue crab																				
1977 ^a	ND		92	43	ND		31	46	52	46	87	56	55	38	16	58	8	63	53	48
1978	ND		66	52	ND		10	38	52	51	56	62	33	43	98	61	19	55	48	55
1979	ND		106	52	ND		27	51	76	49	84	62	166	43	90	48	56	54	84	51
1980	ND		122	54	ND		24	56	119	45	64	52	81	38	65	40	176	46	95	48
1981	ND		58	53	ND		43	44	51	54	88	45	85	40	42	58	173	35	76	43

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Blue crab (cont.)																					
1982	ND			100	47	ND		31	51	107	42	192	48	52	49	36	54	151	41	98	46
1983	ND			146	43	15 ^b	77	35	34	104	40	145	44	50	40	36	59	108	34	93	41
1984	ND			85	58	24	59	64	42	42	46	64	50	64	41	35	61	77	46	63	49
1985	ND			154	49	107	54	56	46	43	42	141	38	184	37	73	52	153	34	116	42
1986	37	79		90	55	86	55	52	52	62	46	30	46	77	40	23	45	91	41	62	49
1987	23	68		163	41	87	38	36	51	64	55	35	35	80	47	50	59	72	44	77	45
1988	44	64		160	46	138	31	29	36	48	42	54	35	89	45	38	43	78	37	78	42
1989	50	45		85	48	121	30	45	25	74	31	56	34	72	43	22	41	31	35	59	38
1990	66	47		141	44	94	46	74	31	98	30	83	35	149	42	37	51	68	40	94	40
1991	46	56		165	47	92	44	58	37	199	38	107	35	151	39	49	45	106	42	117	42
1992	36	55		90	36	54	37	45	26	117	30	129	35	163	38	105	58	129	35	102	37
1993	33	59		116	35	89	27	51	23	89	35	102	41	176	42	67	55	78	36	93	38
1994	28	51		89	38	176	26	96	22	27	34	91	27	208	39	113	47	130	32	102	34
1995	43	46		59	32	194	27	64	22	32	30	56	34	122	37	62	40	93	31	70	32
1996	84	41		106	36	136	25	38	27	39	30	38	33	119	33	48	39	100	27	73	33
1997	76	43		90	42	117	33	63	23	63	35	64	39	123	44	61	47	67	32	77	38
1998	59	57		107	42	129	32	48	27	75	37	51	36	102	38	41	45	81	33	75	38
1999	40	46		93	45	156	32	35	28	57	29	39	38	69	38	57	48	62	29	63	38
2000	113	35		95	35	141	26	44	22	36	31	35	34	65	34	15	35	30	30	55	32
2001	36	46		88	36	219	37	36	23	77	32	50	36	95	33	26	41	59	25	66	33
2002	29	57		72	45	129	38	39	27	54	36	53	40	91	38	33	42	55	27	58	38
2003	41	45		70	39	101	41	31	30	71	29	87	39	114	35	49	54	100	46	72	39
2004	39	45		74	42	65	41	29	32	81	28	86	31	111	35	49	44	90	38	71	36
2005	48	51		72	45	110	26	20	30	65	32	78	32	97	33	45	41	61	28	62	36
2006	40	63		98	48	68	28	22	27	36	32	44	26	34	35	30	30	45	28	49	38
2007	30	48		67	39	67	25	21	33	43	32	51	47	77	35	38	52	37	36	48	39
2008	32	41		70	46	40	29	17	27	25	27	55	33	63	34	57	41	58	44	49	39
2009	40	47		58	45	73	24	20	30	21	26	41	31	67	28	34	34	88	46	48	38
2010	26	50		69	41	99	26	20	40	64	34	146	32	67	36	85	44	126	43	80	38
2011	54	43		79	37	36	27	11	30	76	25	96	27	63	28	90	45	136	37	76	34
2012	58	38		54	51	99	29	31	32	52	36	73	26	54	35	18	30	51	30	50	36
2013	29	38		50	47	26	35	9	28	18	39	59	25	29	31	19	26	31	29	32	35
2014	54	40		75	40	46	32	20	31	58	33	69	27	95	31	52	35	78	32	62	34
2015	49	40		83	43	54	32	25	42	99	42	123	39	83	34	89	46	112	36	83	40
2016	63	41		65	49	45	56	31	39	68	42	65	39	90	36	80	49	142	36	73	42
Brown shrimp																					
1977 ^a	ND			136	46	ND		64	52	200	49	210	54	100	58	8	63	186	53	131	52
1978	ND			519	50	ND		167	63	102	63	153	60	258	56	188	68	120	53	241	57
1979	ND			482	58	ND		194	66	69	63	458	63	581	61	53	59	145	59	294	61

TABLE 3.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Brown shrimp (cont.)																					
1980	ND			504	52	ND		143	68	553	60	382	60	187	62	64	64	227	56	315	58
1981	ND			716	57	ND		157	74	310	64	359	60	666	53	102	76	951	58	481	59
1982	ND			913	64	ND		207	64	599	51	506	54	417	57	62	63	549	61	506	60
1983	ND			484	60	92 ^b	76	248	66	308	57	525	60	333	56	58	65	564	50	367	58
1984	ND			573	64	250	65	171	56	253	66	646	66	303	57	78	61	376	63	365	63
1985	ND			480	60	413	59	364	63	306	56	755	61	370	55	288	70	1,007	56	515	59
1986	605	74		166	58	558	63	508	67	137	65	231	63	204	58	193	66	627	54	316	62
1987	403	70		1,172	58	388	56	445	64	158	60	464	62	293	60	417	56	961	58	613	59
1988	248	61		516	62	570	57	208	61	206	53	357	58	394	63	757	73	461	62	416	63
1989	110	70		519	59	890	56	369	54	744	55	726	51	522	54	167	58	411	59	494	56
1990	125	69		356	56	723	61	422	60	482	56	1,007	60	592	62	77	74	2,128	59	686	59
1991	14	68		601	58	790	61	451	60	623	56	511	67	572	66	248	56	1,164	63	583	61
1992	245	71		708	57	454	55	270	52	726	52	455	62	621	58	328	62	926	55	564	57
1993	102	63		541	58	560	54	233	55	321	54	568	64	636	58	279	62	891	59	482	59
1994	298	62		513	60	480	56	403	61	165	57	513	62	709	63	239	58	841	59	476	60
1995	83	68		331	54	393	50	344	57	290	57	359	57	496	60	477	59	728	59	406	57
1996	1,140	65		363	58	419	52	277	55	382	55	387	60	266	58	273	56	518	56	389	58
1997	103	63		552	62	369	52	240	58	436	58	739	58	608	69	1,020	78	1,231	54	640	62
1998	463	62		410	61	548	53	376	57	295	57	522	60	468	61	620	71	392	57	440	61
1999	385	56		698	59	501	52	481	52	466	52	257	57	286	58	283	62	354	54	436	56
2000	378	61		506	62	602	52	448	56	410	53	567	66	420	60	207	59	463	54	446	59
2001	290	63		325	57	906	56	355	61	652	55	416	58	420	56	164	53	214	55	372	57
2002	233	55		414	57	978	51	249	57	580	54	366	61	597	58	170	60	330	54	392	56
2003	602	59		412	57	673	50	346	55	278	53	290	59	458	57	163	56	391	54	360	56
2004	264	51		460	54	921	56	237	57	363	52	590	56	405	55	242	58	333	59	396	56
2005	653	58		479	63	497	51	258	55	340	51	409	54	490	51	602	67	318	54	423	58
2006	441	59		923	59	532	52	285	55	283	49	452	50	375	51	438	51	858	55	553	55
2007	398	57		422	60	575	53	439	59	275	52	415	56	668	55	393	57	312	56	415	57
2008	273	57		883	53	802	51	202	52	244	51	605	60	384	54	467	61	320	58	486	55
2009	416	59		553	54	708	48	250	59	286	50	463	59	337	55	223	52	593	62	415	56
2010	688	56		906	55	976	49	365	57	767	52	996	60	447	60	383	57	780	56	703	56
2011	893	64		547	55	825	49	263	53	788	52	772	53	276	55	473	53	365	58	531	54
2012	308	66		1,044	58	1,173	55	458	54	763	56	818	60	1,117	60	178	51	857	55	758	57
2013	338	57		858	55	498	54	183	56	278	52	547	52	322	50	346	53	533	52	475	54
2014	801	57		561	60	544	56	182	52	539	53	411	58	531	54	1,185	67	508	53	553	59
2015	194	61		687	59	456	58	375	55	667	56	673	59	575	55	317	60	602	63	549	58
2016	421	60		583	53	547	55	252	56	459	51	525	55	724	58	618	53	672	53	531	54

TABLE 3.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Pink shrimp																					
1977*	ND			0		ND		0		12	41	0		0		56	77	0		8	71
1978	ND			0		ND		0		0.51	100	0.30	63	0		26	77	0		3	77
1979	ND			0		ND		0		0		0		61	51	13	78	0.28	106	7	57
1980	ND			0		ND		0		6	51	13	50	67	55	10	60	2	75	10	55
1981	ND			0		ND		0		28	54	95	44	67	54	8	62	5	49	25	49
1982	ND			0		ND		0		0		122	47	67	46	7	61	3	52	25	48
1983	ND			0		0 ^b		0		9	51	52	56	30	47	12	54	0		12	54
1984	ND			0		0		0.42	25	0.83	73	17	49	35	48	17	65	0.17	79	8	52
1985	ND			0		0		0		0		18	59	8	49	8	76	0		4	61
1986	0			0		0.28	73	0		0.28	68	15	39	25	49	6	43	3	65	5	46
1987	0			0		0		0.28	32	0		11	52	60	52	14	51	0		8	51
1988	0			0		0		0		0.24	38	135	49	106	50	0.48	56	6	54	28	50
1989	0			0		0		0		0.93	52	45	42	64	46	20	59	0		14	47
1990	0			0		0.17	131	0.17	72	0.35	36	99	49	106	48	4	48	15	51	25	49
1991	0			0		0.17	42	0		0.17	110	61	52	25	46	31	42	1	52	14	49
1992	0			0.28	59	0		0		0.97	40	32	53	77	54	38	55	176	59	38	57
1993	0			0.28	34	0		0		0.56	44	58	47	53	50	32	55	140	56	34	53
1994	0			1.94	40	52	56	5.42	38	0.42	35	103	49	149	53	8	39	235	59	61	54
1995	0			0.97	37	16	41	2.92	33	4	46	88	50	53	50	7	45	179	57	42	53
1996	0			0		0.28	32	0.14	35	17	54	35	53	25	51	24	51	154	56	31	55
1997	0			1.39	38	31	44	1.11	30	12	35	52	57	88	59	13	46	59	53	26	54
1998	0			0		42	48	10	45	28	49	47	50	47	53	23	47	245	55	50	53
1999	0			0.14	34	29	45	0.28	28	0.97	39	27	52	39	56	14	56	211	56	37	55
2000	0.97	40		20	48	0.28	33	0		16	42	25	53	34	50	7	53	97	54	26	52
2001	0			0		11	39	1.39	38	12	54	99	51	32	52	18	55	87	48	31	50
2002	0			0		23	52	0.42	44	1.39	53	12	47	82	51	19	54	56	54	19	52
2003	0			0		0		0		1.39	35	47	51	38	51	4	42	72	51	19	50
2004	0			0		0		0		3	42	18	50	69	49	12	54	114	52	25	51
2005	0			0.14	70	0.83	58	0.56	40	1.81	39	42	48	50	48	106	48	144	53	41	51
2006	0			0.42	37	0		0		7	35	78	49	98	49	51	55	131	53	42	51
2007	0			0		0		0		2	44	35	59	107	48	30	51	97	49	30	51
2008	0			0		1	58	0		5	46	41	47	64	44	18	51	22	57	16	48
2009	0			0		0.56	48	0.42	50	18	42	148	53	193	50	14	49	6	62	41	51
2010	0.14	35		0		0		0		2	45	140	51	106	53	76	57	70	53	46	53
2011	0			0		0		0.28	54	3	49	136	47	100	48	79	53	24	55	39	49
2012	0			0		0		0.42	36	13	42	143	50	81	49	41	47	163	56	53	52
2013	0			0		0.56	78	0.97	41	5	50	128	50	22	46	38	41	2	57	24	48
2014	0			0.14	44	2	65	0.97	73	6	47	171	51	4	50	23	51	8	55	28	51
2015	0			0		0.28	81	1.81	77	10	53	128	54	21	51	77	50	17	56	30	53
2016	0			0		12	64	0.14	69	13	43	62	50	4	46	116	47	13	50	25	48

TABLE 3.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>		
	Year	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
White shrimp																					
1977 ^a	ND			1,472	55	ND		1,054	102	115	47	34	63	87	57	43	85	25	57	530	76
1978	ND			860	66	ND		553	70	130	61	91	49	62	52	21	55	130	53	335	65
1979	ND			1,606	61	ND		543	70	212	56	120	64	808	52	5	53	149	47	585	61
1980	ND			566	64	ND		522	68	291	57	134	61	139	69	63	71	22	45	287	65
1981	ND			1,401	62	ND		803	59	66	64	180	50	173	49	19	56	241	61	525	60
1982	ND			3,550	58	ND		1,750	64	650	51	291	43	373	54	14	51	345	50	1,276	58
1983	ND			1,510	50	346 ^b	70	394	65	135	64	131	53	163	42	7	67	228	53	479	54
1984	ND			1,497	59	499	65	1,637	71	166	56	447	53	321	63	18	58	674	58	791	63
1985	ND			281	61	552	61	584	63	37	44	239	44	33	53	6	73	204	54	236	58
1986	308	73		1,389	62	173	65	675	66	140	66	287	44	101	58	3	48	175	49	491	61
1987	683	68		972	53	577	61	579	67	90	54	111	65	152	61	8	37	121	51	386	58
1988	796	63		482	66	429	66	341	68	168	52	425	47	155	61	73	51	534	73	361	63
1989	439	59		559	55	76	59	384	59	146	52	631	60	372	59	2	68	194	55	350	57
1990	425	65		1,698	54	690	57	451	63	335	58	819	50	537	67	35	40	368	49	704	55
1991	385	71		1,723	50	273	51	621	58	236	55	361	71	445	62	77	49	381	61	644	55
1992	463	68		924	54	264	62	643	60	115	68	211	71	167	66	32	58	95	53	384	58
1993	324	68		526	56	449	62	585	61	132	67	96	56	876	69	137	58	750	60	437	61
1994	504	73		981	53	618	55	512	62	327	63	447	64	393	71	55	55	200	59	481	59
1995	789	70		563	53	613	57	607	60	368	75	218	57	270	70	19	51	378	57	401	60
1996	824	61		746	55	439	63	455	62	248	54	94	60	216	71	13	51	356	55	374	58
1997	414	55		603	63	293	50	481	61	93	63	211	68	163	72	2	53	53	57	281	62
1998	743	72		1,331	58	650	59	471	58	216	51	258	59	202	58	15	58	115	65	489	59
1999	6,263	69		640	56	163	52	1,485	56	598	56	103	56	286	61	39	45	213	56	733	60
2000	322	63		285	63	110	50	193	63	86	61	96	61	111	61	2	61	61	51	144	61
2001	587	56		613	59	602	63	344	61	92	64	117	65	343	62	20	51	61	61	286	60
2002	175	64		658	58	981	63	773	63	115	54	89	63	174	66	61	48	284	52	371	60
2003	338	57		698	58	543	59	537	60	213	63	315	64	348	70	25	67	47	56	359	60
2004	701	63		887	53	464	60	490	57	510	61	159	61	103	54	35	62	172	59	412	56
2005	324	66		1,172	63	329	55	663	60	153	56	169	64	272	57	26	56	53	50	437	61
2006	441	60		662	60	183	62	610	56	33	61	141	58	199	67	25	52	326	58	334	59
2007	649	62		804	55	424	56	277	55	397	49	195	62	299	64	26	52	100	61	360	56
2008	372	59		838	54	412	54	450	59	217	57	315	64	710	69	37	55	332	67	443	59
2009	673	67		844	59	329	55	119	61	91	52	280	59	311	61	32	44	115	61	323	60
2010	481	56		1,148	49	604	58	327	61	155	57	250	57	184	73	4	98	438	65	449	55
2011	721	63		1,451	52	201	50	162	56	128	59	160	50	375	53	66	55	443	52	493	53
2012	355	63		1,056	60	781	46	380	60	147	56	264	52	166	60	33	44	211	54	412	58
2013	500	56		742	53	479	62	169	49	145	53	351	55	66	58	34	46	592	51	363	53
2014	327	57		964	53	313	61	143	56	270	57	139	53	221	65	39	61	371	54	365	55
2015	580	57		1,058	59	573	58	368	55	325	57	245	60	317	86	44	56	427	57	471	59
2016	934	57		957	54	757	57	878	55	378	63	208	55	398	63	28	46	261	54	532	56

TABLE 3.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide</u>	
	Year	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length	No./ha Length

^aData for October-December only. ^bEast Matagorda Bay data are only for February-September 1983.

TABLE 4.—Annual mean catch rates (No./h) and mean total lengths (mm) of select fishes and shellfishes caught with 6.1-m trawls in Texas bay systems during 1982-2016. Blank indicates no measurement taken; ND = no data.

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
FINFISHES																					
Atlantic Croaker																					
1982 ^a	ND		43	ND	ND		103	ND	10	ND	87	75	110	ND	38	ND	28	ND	67	75	
1983	ND		30	131	ND		31	117	18	110	44	105	43	149	16	158	32	154	30	127	
1984	ND		15	126	ND		29	103	22	88	52	83	120	121	16	137	44	138	36	112	
1985	ND		20	124	ND		41	110	17	105	33	101	42	138	14	151	24	148	28	119	
1986	10	156	31	123	ND		53	114	45	105	58	96	85	125	14	139	28	153	44	117	
1987	25	139	26	117	17 ^c	133	128	103	149	96	88	100	50	129	7	152	44	122	71	106	
1988	46	135	58	98	13	131	44	121	92	109	102	102	39	125	5	137	21	138	55	109	
1989	45	145	36	116	4	98	76	121	90	102	73	99	41	127	2	158	19	131	53	115	
1990	41	113	37	109	12	113	81	118	51	97	46	92	55	125	12	129	70	123	51	112	
1991	32	115	42	106	8	120	138	106	178	93	227	93	75	125	14	127	35	132	96	103	
1992	41	139	55	107	4	120	215	100	158	84	243	87	55	114	17	140	38	140	114	98	
1993	71	131	91	104	15	128	122	104	49	104	126	98	37	131	2	141	27	141	80	106	
1994	34	144	74	111	17	148	101	116	149	78	57	105	18	135	2	137	22	147	74	106	
1995	22	117	48	100	24	123	110	103	89	99	88	117	43	124	2	162	52	146	66	106	
1996	51	120	70	103	16	111	55	118	26	113	61	108	46	142	8	140	60	150	53	114	
1997	89	133	99	102	24	126	138	109	33	112	92	110	61	129	14	145	30	138	86	110	
1998	82	128	93	103	19	129	89	104	51	106	75	105	84	129	10	144	21	146	76	109	
1999	53	121	39	113	23	126	56	113	30	106	94	105	55	139	8	128	21	141	46	116	
2000	60	128	49	119	31	110	38	118	34	114	81	119	54	145	4	157	10	155	44	123	
2001	72	125	133	102	22	117	173	99	34	104	91	114	65	133	6	150	23	133	104	105	
2002	60	120	68	116	29	144	60	113	47	108	115	117	46	136	4	133	14	146	59	117	
2003	124	111	74	108	24	165	83	108	118	96	131	109	87	128	13	145	16	146	84	109	
2004	44	133	66	113	17	161	123	106	84	103	75	111	45	133	11	133	10	150	72	111	
2005	82	116	159	94	32	121	182	102	94	92	119	102	54	133	11	148	26	114	124	100	
2006	140	141	99	119	48	127	74	117	75	111	95	112	33	141	5	125	16	135	76	120	
2007	50	115	164	96	52	119	111	99	174	101	231	103	48	132	5	153	31	131	127	101	
2008	170	111	93	118	40	134	120	107	89	109	53	109	40	134	10	147	12	161	85	114	
2009	143	130	66	134	25	153	31	131	57	118	28	118	51	129	23	121	15	139	51	130	
2010	129	121	66	123	28	144	36	114	238	96	287	104	154	113	9	137	23	140	106	109	
2011	132	118	74	125	27	171	22	127	86	104	88	109	42	129	25	109	11	123	59	119	
2012	154	130	110	114	28	161	48	122	125	102	103	108	53	126	5	125	9	123	83	114	
2013	162	119	108	122	18	173	18	133	14	121	24	118	104	126	7	119	6	129	62	123	
2014	109	109	100	116	28	156	59	107	67	99	148	93	246	124	23	115	34	105	101	113	
2015	106	110	239	104	42	144	77	108	61	88	124	102	174	125	32	138	33	115	139	108	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Atlantic Croaker (cont.)																					
2016	76	108	207	99	42	148	96	119	148	110	113	107	78	126	39	124	12	109	131	107	
Black Drum																					
1982 ^a	ND		0.18	259	ND		0		0.20	221	0.13	166	1.68	235	0.32	264	0		0.50	235	
1983	ND		0.42	274	ND		0.02	199	0.07	192	0.40	201	0.70	347	0.78	266	0.03	440	0.32	284	
1984	ND		0.05	168	ND		0		0		0.08	251	0.33	341	0.86	202	0.07	545	0.11	273	
1985	ND		0.23	242	ND		0		0		0.05	403	0.17	315	1.00	280	0		0.16	266	
1986	0.45	226	0.13	233	ND		0		0		0		0.08	334	0.15	234	0.15	335	0.08	250	
1987	0.25	278	0.05	246	0 ^c		0		0.05	200	0		0.23	186	0.90	247	0.05	160	0.11	231	
1988	0.75	271	0.25	271	0.20	192	0.03	170	0.03	154	0.03	204	0.25	299	0.65	197	0		0.19	256	
1989	2.00	260	0.32	274	0.10	193	0		0.20	267	0.05	170	0.23	356	2.00	212	0.10	418	0.35	258	
1990	1.50	272	0.25	277	0.05	146	0.03	930	0.03	114	0.13	173	0.05	560	98.35	109	0.20	169	5.38	115	
1991	2.30	269	0.25	313	0.90	218	0		0.23	194	0.18	247	0.05	170	72.71	153	1.50	229	4.14	160	
1992	2.05	320	0.50	210	0.15	235	0		0.05	212	0.05	183	0.23	359	10.43	225	1.35	233	0.89	236	
1993	3.04	283	0.18	275	0.25	309	0		0.03	282	0.05	223	0.35	379	3.49	291	0.40	357	0.43	296	
1994	1.90	324	0.10	291	1.15	259	0.15	280	0.50	184	0.08	259	0.35	401	0.85	360	0.05	408	0.31	301	
1995	1.40	306	0.35	229	1.05	257	0		1.00	221	0.32	346	0.70	325	2.70	235	0		0.55	256	
1996	2.00	292	0.23	359	0.65	314	0		2.12	271	0.18	565	0.42	326	5.44	250	0.05	397	0.78	283	
1997	3.24	258	0.35	258	1.10	241	0.15	223	1.55	241	0.80	249	0.08	349	4.94	227	0.20	386	0.82	244	
1998	4.84	283	0.42	238	1.15	239	0.05	172	1.22	222	0.95	276	0.05	244	2.45	227	0.10	168	0.72	248	
1999	3.64	294	0.37	245	1.40	270	0.08	370	1.15	254	0.82	252	0.55	214	1.55	253	0		0.65	260	
2000	7.09	321	0.18	248	1.55	211	0.10	361	1.10	255	2.10	241	0.90	329	2.05	323	0.05	273	0.90	293	
2001	7.54	276	0.75	322	2.30	249	0		1.57	251	1.15	281	0.20	306	4.14	204	0.05	680	1.10	269	
2002	4.74	301	0.45	304	2.10	270	0.10	411	0.97	250	0.90	360	0.75	276	2.20	265	0		0.77	293	
2003	3.69	326	0.72	321	2.84	292	0.05	189	0.65	204	0.62	347	0.37	333	1.10	330	0		0.64	308	
2004	2.15	324	0.42	242	2.00	296	0.05	154	0.45	249	0.08	488	0.30	305	3.44	215	0		0.53	253	
2005	2.20	306	0.20	312	1.80	294	0.03	743	0.23	257	0		0.77	284	2.45	265	0.05	257	0.42	292	
2006	8.23	275	0.97	251	3.34	258	0.13	165	1.07	247	0.45	191	0.10	223	5.99	169	0.20	569	1.21	234	
2007	9.68	269	0.65	290	3.04	264	0.15	285	0.95	225	0.15	325	0.60	278	2.65	222	0		1.00	263	
2008	7.09	271	0.70	315	3.34	260	0.03	886	1.82	184	0.15	289	0.50	287	3.79	248	0.05	153	1.05	260	
2009	6.29	261	0.80	350	3.94	268	0.05	606	0.05	182	0.03	727	0.10	362	0.90	318	0		0.62	312	
2010	4.44	338	0.77	346	3.59	293	0.03	960	0.05	186	0		0.40	388	1.75	287	0.10	163	0.61	339	
2011	3.24	305	0.32	420	4.94	261	0.08	694	0.27	264	0.03	558	0.23	533	3.59	272	0		0.53	336	
2012	3.09	340	0.47	360	3.54	266	0.20	297	0.45	243	0.08	164	0.32	347	4.59	228	0.05	703	0.69	293	
2013	7.24	313	0.47	395	5.29	266	0		0.10	216	0.08	687	0.27	663	16.02	155	0.05	261	1.38	233	
2014	3.69	325	0.50	309	3.74	290	0.05	810	0.05	962	0.05	980	0.20	798	12.68	273	0		1.05	310	
2015	2.40	362	0.32	384	2.70	342	0.10	111	0.13	228	0.03	1010	0.03	675	9.03	314	0.10	495	0.74	327	
2016	0.90	403	0.52	386	3.84	319	0.05	743	0.15	318	0		0.03	787	2.45	381	0.10	431	0.39	394	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gafftopsail Catfish																					
1982 ^a	ND		0.42	ND	ND		3.50	ND	2.87	ND	2.98	ND	0.80	138	0.11	193	0		1.52	138	
1983	ND		0.42	137	ND		1.30	130	1.65	123	2.30	135	0.40	175	0		0		0.89	133	
1984	ND		0.32	139	ND		0.82	144	5.38	121	2.22	109	0.17	218	0.07	131	0.03	196	1.22	126	
1985	ND		0.07	154	ND		1.82	137	1.70	128	2.65	128	0.73	150	0		0.03	210	0.97	135	
1986	0		0.60	126	ND		1.67	134	4.74	128	2.12	121	0.25	92	0.05	158	0		1.36	128	
1987	0.07	174	0.42	145	0.86 ^c	143	1.62	138	8.98	122	1.80	124	0.32	132	0.05	183	0.05	175	1.82	127	
1988	0		0.35	149	1.45	135	3.12	114	3.44	131	3.19	127	0.10	115	0		0		1.49	124	
1989	0.07	299	0.20	126	0.15	139	0.77	134	4.42	136	4.44	139	0.30	156	0		0		1.18	137	
1990	0		1.22	218	0.95	127	1.30	137	4.37	130	1.60	143	0.02	173	0		0		1.36	159	
1991	0		0.70	145	0.65	142	1.82	145	5.04	127	3.47	141	0.02	206	0		0		1.54	137	
1992	0.15	144	0.40	161	0.35	128	1.62	125	5.59	132	9.76	117	1.35	126	0		0.25	203	2.12	127	
1993	0		1.30	139	0.05	118	1.67	145	3.94	123	4.12	118	0.45	183	0		0.05	185	1.66	133	
1994	0		1.52	127	0.35	197	1.75	129	3.34	119	1.85	145	0.92	180	0.15	181	0		1.56	131	
1995	0.15	275	2.07	139	0.30	176	1.37	137	4.34	129	3.42	142	1.15	200	0		0.05	207	1.93	141	
1996	0.15	289	0.35	167	0.60	166	1.85	129	1.00	141	1.45	153	0.27	225	0		0.05	185	0.79	145	
1997	0		1.47	138	0.65	162	3.64	128	1.37	142	3.02	139	0.57	155	0.05	157	0		1.75	135	
1998	0.15	126	0.65	168	0.70	162	2.57	143	0.65	157	2.15	144	0.47	189	0		0.10	161	1.08	152	
1999	0		0.95	151	2.64	171	4.57	134	3.04	148	2.84	147	1.15	208	0.30	158	0.10	190	2.07	146	
2000	0.30	217	0.50	157	1.50	153	5.29	132	2.57	142	4.24	136	1.90	153	0		0.10	251	2.21	139	
2001	0.25	215	1.62	135	2.89	152	4.57	136	3.89	134	4.42	129	0.92	182	0		0.05	146	2.48	137	
2002	0.20	173	1.75	147	5.74	158	5.21	144	12.92	140	6.01	151	1.30	208	0		0.05	107	3.99	146	
2003	3.39	133	0.85	128	2.59	162	7.24	148	14.82	126	7.58	142	1.52	205	0.35	186	0.10	183	4.67	139	
2004	0.05	156	2.20	135	1.60	169	10.90	133	14.10	125	10.95	138	2.07	183	0.50	161	0		5.99	134	
2005	0.55	202	1.95	134	11.23	156	6.69	144	5.94	131	15.27	132	2.02	183	0		0.15	155	4.32	139	
2006	1.30	168	3.87	146	5.59	158	12.57	145	9.86	135	11.28	150	3.67	175	0		0.05	305	6.61	146	
2007	0.65	260	2.42	139	2.25	177	11.75	146	19.49	139	23.25	137	2.42	186	0.30	179	0		7.94	143	
2008	0.30	190	2.40	132	5.09	132	13.55	141	22.78	138	14.02	145	4.54	178	0		0.30	140	8.26	142	
2009	1.25	247	2.84	158	3.39	163	7.56	150	12.15	145	7.26	156	4.42	192	0		0		5.24	156	
2010	0.25	231	6.76	136	5.34	170	6.59	150	9.53	137	13.17	142	1.87	181	0.05	183	0.30	285	6.12	143	
2011	0.30	151	2.52	151	9.89	157	8.08	141	15.99	140	12.50	141	2.18	150	0.35	158	0.30	188	5.90	142	
2012	1.30	132	7.68	150	8.43	160	12.85	140	17.54	133	13.05	147	10.63	139	0.05	93	0.25	286	9.85	142	
2013	0.30	296	1.50	150	1.40	140	13.95	132	16.84	140	10.88	146	4.77	240	0		0.05	229	7.06	146	
2014	0.75	143	0.82	161	2.64	153	6.64	144	5.01	154	8.88	139	1.17	245	0.15	115	0.15	209	3.22	151	
2015	0.15	161	8.83	125	3.24	169	9.53	138	9.16	153	17.81	141	4.07	183	1.15	164	0.05	165	8.03	139	
2016	0.50	184	5.84	136	7.34	163	19.89	136	30.29	133	38.47	131	6.96	176	7.44	165	0.05	186	14.29	137	
Gulf Menhaden																					
1982 ^a	ND		11.7	ND	ND		10.2	ND	11.4	ND	24.2	ND	1.7	ND	0.2	ND	0.3	ND	9.8	ND	
1983	ND		7.1	103	ND		9.5	109	16.7	76	3.1	89	3.1	104	0.6	87	0		7.5	96	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf Menhaden (cont.)																					
1984	ND			3.2	98	ND		3	93	23.1	58	45.2	44	4.2	82	6	76	0.2	59	9.4	61
1985	ND			17.6	112	ND		10.4	109	27.2	79	11.4	95	1.5	119	3.8	106	0		13.3	101
1986	0.2	121		17.3	95	ND		3.6	79	18.1	64	8.3	55	0.7	156	0.2	49	0		9.5	84
1987	2.7	101		20.3	95	15 ^c	84	12.3	101	34.6	77	23	62	1.4	128	0.1	92	0		15.8	88
1988	2.8	94		22.7	80	1	96	16.6	96	11.2	99	4.3	106	1.4	124	0.9	58	0.1	111	13	88
1989	3	79		14	107	6.9	97	2.9	111	21.3	103	3.2	65	7.1	114	0.2	60	0.1	79	9.1	105
1990	4.8	68		11.7	94	2.1	94	4	121	24.3	85	19.5	102	2.3	97	2.5	85	0.4	111	9.9	95
1991	6.3	83		21.9	87	4	82	17.7	98	34.8	92	16.4	88	1.5	128	1.5	73	0.1	99	17.2	91
1992	1.6	95		22.8	103	6.7	71	31.9	103	17	94	38.4	87	2.6	102	0.6	108	0.5	107	19.9	100
1993	2.4	79		39.9	84	5.6	44	10.3	104	12	68	16.7	75	3.6	98	0.1	119	0.3	126	18.6	85
1994	3.8	84		30.2	91	4.4	46	7	120	12.9	74	2.9	117	4.9	91	0	187	0.3	132	13.9	93
1995	2	68		23.9	103	1.5	48	3	105	19	45	6.6	71	2	131	0.3	108	0.4	126	11.7	90
1996	16.4	55		14.5	101	29.1	33	5.8	91	8.2	79	41.8	37	1.8	111	0.2	74	0	141	11.3	76
1997	2.9	76		28.4	102	6.9	82	4.7	123	9.3	86	20.8	106	3.3	123	0.2	107	0.4	120	13.6	103
1998	8.9	57		16.9	105	3.1	64	5.2	115	10.7	88	15.1	103	5.1	117	0.5	96	0	37	10.2	102
1999	5.5	82		13	85	1.9	79	8.2	116	4.3	92	8.5	74	3.1	97	0.1	134	0		7.8	92
2000	17.2	83		8.6	108	1.2	82	2.7	133	2.6	85	11.1	123	10.2	129	0.2	144	0.2	126	6.5	112
2001	9.3	60		39.9	72	9.3	68	25	100	19	70	15	53	1.1	104	0	65	0		22.5	78
2002	12.8	59		28.5	91	3.8	108	30.3	108	40.4	89	9.1	118	6.4	135	0	166	0	31	23	97
2003	17.1	91		33	80	2.1	102	15.8	107	37.4	75	13	86	4.7	139	0.1	128	0		21.2	86
2004	14.2	63		28.1	95	2.2	100	13.7	121	7.7	89	9.8	121	5.4	130	0	164	0.3	89	15.1	101
2005	14.4	75		23.1	94	20.5	70	5.9	117	10.9	83	13	95	7.3	81	0.3	119	0	116	12.7	93
2006	11.6	114		17.5	116	2.6	67	15.1	133	8.5	90	11.1	134	9.5	140	0.3	74	0.5	100	12.5	121
2007	21.6	70		23.1	71	2	71	12.8	111	29.6	89	30.3	110	10.7	114	0.2	124	0.2	113	18.5	89
2008	11.9	71		15.9	99	1.3	101	14.9	114	16.4	101	9.5	132	0.9	169	0.1	113	0.3	98	11.8	105
2009	17.2	88		13.8	109	1.3	86	2.2	127	2.7	86	1.8	138	2.9	141	0.2	124	0		6.5	109
2010	18.5	74		17.4	97	3.7	85	25.4	112	27.7	73	39.4	94	10.4	80	0		1.6	106	19.8	95
2011	79.8	52		18.0	91	2.4	112	35.0	114	18.5	104	30.0	115	24.4	141	0.5	63	0.4	122	24.3	102
2012	19.8	81		35.2	99	6.0	107	32.4	82	35.5	77	9.0	64	4.8	89	0.5	116	0.0	96	25.1	89
2013	13.1	58		7.4	100	2.0	92	7.3	137	9.1	97	5.8	142	3.5	161	9.0	37	0.8	126	7.1	107
2014	74.5	41		45.8	53	3.4	97	14.7	66	40.4	76	33.1	48	16.4	148	8	104	3.3	75	31.3	63
2015	27.4	58		116.5	86	8.9	69	88.8	63	260.3	42	45.9	94	87.4	141	1.5	78	1.5	48	105.1	73
2016	30.4	55		41.1	93	3	108	16.6	116	38.3	90	16.5	124	11.1	157	2	111	0		25.8	99
Pinfish																					
1982 ^a	ND			0.7	ND	ND		7.2	ND	5.0	ND	21.5	ND	84.6	ND	44.9	ND	38.3	ND	26.7	ND
1983	ND			0.8	121	ND		6.2	110	13.8	106	37.9	106	118.9	124	20.4	133	45.1	109	24.0	119
1984	ND			0.9	121	ND		5.8	107	6.7	96	39.0	96	24.8	113	68.3	108	73.1	111	15.5	107
1985	ND			0.8	119	ND		9.2	111	23.0	104	52.7	110	47.5	118	19.0	132	48.5	110	18.5	112

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pinfish (cont.)																					
1986	3.6	117	2.2	118	ND		9.8	101	18.2	98	55.9	103	102.1	116	33.0	110	97.2	108	27.2	110	
1987	0.4	126	0.5	122	5.4 ^c	113	13.6	103	32.9	91	85.0	106	132.1	121	12.3	131	57.0	113	32.2	112	
1988	3.6	126	2.4	114	5.0	107	18.1	111	93.9	104	141.7	100	276.7	115	20.7	112	66.6	100	63.6	109	
1989	1.4	117	1.8	121	9.5	98	16	113	54.2	103	83.1	103	400.4	116	16.7	110	82.3	104	68.0	113	
1990	3.2	109	5.4	107	5.1	103	34.6	109	64.8	101	110.5	101	164.9	107	106.2	77	287.4	101	62.3	102	
1991	0.6	112	4.1	120	8.5	100	5.8	116	26.5	102	32.2	109	251.4	111	82.5	105	283.4	107	53.3	109	
1992	1.0	98	2.1	127	1.4	112	5.2	112	10.5	103	23.3	101	162.3	110	48.8	117	134.4	109	31.7	110	
1993	3.4	119	3.8	114	2.8	110	4.9	103	34.3	102	92.8	106	138.0	117	47.1	105	141.4	103	38.1	110	
1994	1.1	128	8.8	109	1.8	125	9.2	101	27.6	103	40.1	118	77.9	127	42.8	114	99.2	105	26.8	115	
1995	0.5	122	1.9	137	1.7	119	6.3	106	38.5	97	70.3	114	140.9	127	25.8	115	118.2	105	34.8	117	
1996	17.0	131	3.0	107	3.8	114	4.5	106	19.0	106	53.4	106	167.2	120	55.9	82	110.1	105	35.9	112	
1997	2.2	116	0.6	132	8.9	121	2.2	111	10.7	104	60.1	110	338.8	117	28.5	100	106.8	109	51.8	115	
1998	12.6	120	3.1	109	2.7	112	19.5	108	29.7	107	106.3	107	238.5	118	28.0	113	111.6	109	51.3	114	
1999	1.3	138	4.4	119	1.3	119	14.7	110	56.9	109	95.1	110	422.1	119	24.7	119	106.2	113	73.7	116	
2000	8.8	132	3.6	123	6.9	108	12.4	107	34.0	101	201.6	113	268.1	124	36.1	141	143.6	110	62.9	118	
2001	4.9	120	5.4	111	3.8	100	17.6	109	48.4	97	127.1	110	157.9	124	60.0	99	246.2	68	53.1	105	
2002	14.6	114	12.6	120	3.5	122	13.6	108	75.9	99	184.7	106	367.3	114	43.5	116	106.1	110	80.7	111	
2003	4.4	128	6.3	122	1.1	134	17.7	104	47.3	89	156.5	105	436.1	115	45.8	125	82.9	110	80.4	111	
2004	6.6	123	2.1	121	1.1	122	15.7	104	31.4	97	46.5	110	423.0	117	46.1	125	99.2	104	67.3	115	
2005	6.7	120	3.0	127	4.9	125	25.1	104	31.7	99	101.4	111	292.4	122	35.3	114	132.9	100	59.6	115	
2006	4.2	124	3.5	113	5.0	120	8.6	110	43.6	105	95.2	106	364.6	119	51.9	85	94.4	100	64.8	113	
2007	6.6	109	3.2	123	7.9	115	8.5	107	32.3	100	84.4	107	296.0	116	74.7	114	113.4	104	56.6	113	
2008	5.9	119	3.7	132	3.2	125	4.0	109	44.4	106	43.1	116	415.2	117	29.1	117	125.1	108	65.9	115	
2009	26.9	111	5.0	119	4.2	120	12.2	112	45.0	108	58.8	118	237.3	120	62.4	105	108.1	103	50.8	115	
2010	11.0	115	2.9	138	14.5	125	5.0	120	45.4	103	65.4	114	207.7	116	63.6	121	128.7	112	45.9	115	
2011	29.7	107	6.2	122	2.0	135	6.8	111	52.9	103	134.2	112	292.3	121	46.7	111	170.0	92	64.9	114	
2012	6.9	136	8.0	127	7.1	127	46.5	110	43.3	108	103.8	113	176.5	118	68.6	96	64.3	112	53.2	113	
2013	10.4	104	12.8	124	1.7	136	7.8	113	64.3	112	98.6	111	264.1	119	56.9	93	75.4	107	58.7	115	
2014	5.3	115	8.1	117	3.2	118	10.8	111	31.9	108	34.9	109	324.9	117	68.0	102	70.0	104	56.0	114	
2015	1.9	121	3.9	140	1	127	3.8	105	39.1	99	87	110	278.5	115	142.7	104	99.4	102	57.6	111	
2016	11.1	109	2.4	118	1.8	125	9.9	111	58.3	103	109.1	111	300.6	118	96.2	118	121.8	115	64	115	
Red Drum																					
1982 ^a	ND		0		ND		0.03	ND	0.02	230	0.07	102	0.03	649	0.11	619	0		0.03	364	
1983	ND		0		ND		0		0.02	319	0.15	224	0		0		0.03	280	0.02	242	
1984	ND		0.02	584	ND		0.02	305	0.03	344	0.08	142	0.02	81	0.14	241	0.07	401	0.03	315	
1985	ND		0		ND		0.02	56	0		0.03	54	0.02	276	0.21	475	0.07	91	0.02	226	
1986	0.03	212	0		ND		0		0.03	35	0.03	78	0		0.05	630	0.20	340	0.02	289	
1987	0.03	405	0.03	34	0 ^c		0		0		0		0.03	399	0		0		0.01	154	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b			
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Red Drum (cont.)																						
1988	0.03	272	0.32	53	0	0	0	0	0.03	23	0	0	0	0	0.20	308	0.12	72				
1989	0.13	254	0.10	44	0	0.20	42	0	0	0	0.03	525	0	0.05	68	0.09	73					
1990	0		0.08	222	0	0		0.03	53	0	0		0.05	40	0.15	342	0.04	214				
1991	0		0.08	135	0	0		0.08	75	0	0.05	265	0.25	383	0.30	256	0.07	211				
1992	0		0.03	197	0	0.05	63	0.05	349	0.05	369	0.03	117	0	0.10	303	0.04	207				
1993	0.05	575	0		0.05	360	0	0	0.10	250	0.03	412	0	0.05	415	0.25	271	0.03	306			
1994	0		0.05	433	0.05	72	0	0	0.13	170	0.03	70	0	0.10	125	0.20	329	0.05	277			
1995	0.05	246	0		0	0	0	0.05	281	0	0	0.05	188	0.10	320	0.30	382	0.03	306			
1996	0		0		0.15	400	0	0	0.15	93	0.05	436	0.05	224	0.25	330	0.20	266	0.05	226		
1997	0.05	679	0.03	491	0	0.05	330	0.13	350	0.08	240	0	0	0.20	306	0.60	252	0.08	326			
1998	0.15	350	0		0	0		0	0	0	0	0.03	87	0	0.25	361	0.02	316				
1999	0		0.03	760	0	0		0	0	0.03	67	0	0	0.15	346	0.10	479	0.02	500			
2000	0.15	378	0		0.10	82	0	0	0	0	0	0	0	0.05	582	0.01	413					
2001	0.15	554	0.37	80	0	0		0	0.03	170	0.08	38	0	0.20	347	0.15	114					
2002	0.45	479	0.03	404	0	0.03	270	0.05	285	0.03	301	0.08	68	0.15	345	0.30	358	0.07	343			
2003	0.20	372	0.05	63	0.05	361	0	0	0.05	135	0.03	843	0	0.20	189	0.10	298	0.05	208			
2004	0.05	541	0.05	373	0	0.13	274	0.05	206	0.08	274	0.03	305	0.05	253	0.10	304	0.07	302			
2005	0.15	632	0		0.10	550	0.13	85	0.13	170	0.03	213	0.03	217	0.15	383	0.30	341	0.07	233		
2006	0.45	268	0.10	275	0.15	305	0.03	185	0.23	231	0.03	280	0	0	0	0	0.09	254				
2007	0.25	409	0.08	372	0.20	345	0.03	50	0.05	53	0.05	155	0	0.15	517	0	0.06	320				
2008	0.25	503	0		0	0		0.13	205	0	0	0.03	60	0	0.15	307	0.04	299				
2009	0.70	367	0.05	549	0.20	135	0.03	94	0.03	41	0.08	191	0	0.10	419	0.10	266	0.07	354			
2010	0.65	485	0.03	387	0.05	439	0	0	0	0	0	0	0.35	300	0.10	104	0.06	386				
2011	0.10	447	0.05	547	0.05	336	0	0.03	73	0.05	75	0.05	26	0.20	180	0.15	79	0.05	277			
2012	0.10	351	0.47	213	0.05	699	0	0	0	0	0	0.05	21	0.05	71	0.16	213					
2013	0.20	472	0.08	51	0.05	287	0	0.03	293	0	0.03	24	0.15	118	0.10	135	0.05	152				
2014	0		0.15	149	0.25	409	0	0	0	0	0	0	0	1.40	44	0.11	96					
2015	0.25	442	0		0.10	327	0	0.03	176	0.10	122	0.03	86	0.05	331	0	0.03	270				
2016	0.60	437	0.05	743	0.10	405	0	0.03	17	0.05	65	0	0	0.05	445	0.05	480					
Sand Seatrout																						
1982 ^a	ND		4.32	ND	ND	4.95	185	0.17	141	3.13	126	13.78	147	1.07	201	6.35	164	5.78	145			
1983	ND		2.62	134	ND	3.98	132	0.20	108	2.90	111	9.27	158	0.14	196	1.33	164	3.25	140			
1984	ND		1.68	147	ND	1.32	121	0.08	115	0.55	107	4.12	141	0	0.83	161	1.46	138				
1985	ND		3.77	127	ND	3.43	125	0.18	136	1.18	119	7.45	144	0.64	160	0.83	117	3.16	131			
1986	0.62	152	3.34	141	ND	2.15	117	0.15	112	0.57	133	5.04	148	0	0.15	154	2.24	138				
1987	1.55	121	2.32	110	1.93 ^c	112	5.24	114	1.02	99	1.10	94	8.91	134	0.25	156	0.40	160	3.24	119		
1988	0.87	140	3.22	107	1.45	117	2.30	126	0.47	123	1.95	107	3.52	125	0.05	109	0.40	128	2.22	116		
1989	2.05	102	10.01	96	0.55	81	3.49	111	1.20	110	4.09	85	11.13	140	0	2.15	152	5.94	108			

TABLE 4.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide^b</u>		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand Seatrout (cont.)																					
1990	1.50	110	4.99	109	0.60	96	2.94	119	0.52	116	0.62	113	3.27	124	0		1.85	102	2.89	113	
1991	0.80	118	7.34	130	0.60	103	1.97	123	1.10	119	4.17	113	5.07	143	0		1.60	140	3.96	130	
1992	1.70	113	5.61	113	0.05	150	5.66	113	1.95	104	3.82	128	2.52	142	0.10	209	1.75	155	4.03	117	
1993	6.04	108	6.11	110	2.99	107	4.19	113	0.65	109	5.54	102	4.59	125	0.55	146	1.25	126	4.28	112	
1994	1.40	76	7.83	107	2.65	124	2.75	119	0.25	123	1.82	130	3.04	143	0.05	253	2.50	157	3.83	114	
1995	1.05	101	7.69	121	2.45	104	7.66	111	1.02	105	3.77	126	3.19	148	0		1.65	160	5.07	120	
1996	6.74	151	2.02	116	2.65	94	3.44	119	0.32	139	2.92	105	1.95	172	0		0.40	169	2.20	127	
1997	10.33	115	7.86	119	1.60	87	5.17	130	0.37	105	3.92	131	1.60	149	0.10	166	0.35	146	4.67	123	
1998	20.21	113	4.74	125	1.90	107	3.22	118	0.05	160	4.74	108	5.39	124	0		0.70	146	4.12	120	
1999	4.84	120	3.09	122	12.58	92	1.30	122	0.15	150	5.96	138	2.87	156	0.05	106	0.15	130	2.36	129	
2000	4.94	122	4.89	115	2.79	94	2.20	121	0.03	130	2.94	158	2.72	164	0		0.10	185	2.83	125	
2001	6.69	93	9.61	119	2.15	87	5.04	131	0.15	133	2.37	143	2.47	179	0		0.10	124	4.99	125	
2002	3.29	99	8.16	129	1.95	120	3.84	137	0.57	104	10.58	131	7.64	137	0		0.05	155	5.41	131	
2003	14.22	117	4.42	134	2.70	112	2.87	123	0.55	104	11.38	132	5.76	155	0		0.15	154	4.29	132	
2004	13.62	103	22.80	100	8.58	101	6.49	131	1.35	83	7.06	122	8.58	162	0.20	123	0		11.13	110	
2005	4.69	113	3.32	142	4.94	100	6.94	129	0.27	124	7.61	133	8.58	133	0.05	400	0		4.42	133	
2006	12.73	102	6.29	135	3.34	114	6.19	140	0.50	95	6.46	120	3.79	162	0		0		4.93	133	
2007	9.38	84	10.38	114	6.19	103	8.13	118	0.50	106	12.13	120	5.56	162	0		0		7.20	118	
2008	23.45	80	6.51	133	12.58	80	12.53	126	0.45	122	8.38	138	9.83	153	0.05	132	0.60	125	7.73	127	
2009	28.44	131	3.82	153	3.04	115	5.44	153	0.27	108	4.39	154	8.01	157	0		0		4.93	148	
2010	17.32	119	6.69	148	1.75	117	8.16	159	1.70	109	4.04	129	5.99	139	0		0		5.90	144	
2011	9.83	96	4.64	158	0.45	193	2.35	161	0.13	162	3.59	143	3.28	140	0.15	147	0.05	129	3.11	147	
2012	21.41	94	7.74	139	1.60	158	4.52	154	0.10	120	1.62	138	0.75	185	0		0		4.62	134	
2013	19.11	99	6.21	145	2.30	124	1.60	157	0.30	169	0.72	145	2.22	188	0		0.05	163	3.53	139	
2014	7.54	106	3.57	141	5.39	101	2.55	134	0.35	139	1.85	126	5.07	150	0		0		2.82	136	
2015	8.23	87	23.90	130	3.34	115	5.26	118	0.32	139	2.00	120	13.92	132	0		0		11.06	127	
2016	2.20	98	17.14	117	4.34	102	5.39	145	1.37	133	5.49	134	5.34	143	0.10	144	0.05	158	8.06	124	
Sheepshead																					
1982 ^a	ND		0.28	295	ND		0		0.17	119	0.02	85	0.48	345	0.53	366	0.85	241	0.27	302	
1983	ND		0.32	344	ND		0		0.05	113	0.20	138	0.30	365	1.14	358	0.47	248	0.25	318	
1984	ND		0.22	339	ND		0.02	147	0		0.18	157	0.25	342	0.07	402	0.03	300	0.13	315	
1985	ND		0.13	341	ND		0.02	102	0.05	112	0.20	143	0.15	259	0.07	412	0.37	80	0.11	239	
1986	1.12	215	0.05	451	ND		0		0		0.15	122	0.05	288	0.05	356	0.90	160	0.12	228	
1987	0.40	279	0.05	356	0 ^c		0.03	111	0.10	124	0.08	115	0.13	299	0.25	377	0.25	156	0.09	255	
1988	0.37	332	0.10	423	0		0.03	112	0.25	80	0.08	95	0.08	155	0.20	247	0.10	152	0.11	238	
1989	0.82	252	0.23	253	0.10	104	0.03	120	0.15	120	0.10	117	0.13	251	0.10	518	0.20	366	0.17	240	
1990	3.24	248	0.30	343	0		0		0.10	89	0.03	99	0		0		0.40	236	0.26	274	
1991	2.00	300	0.18	339	0.10	192	0		0.05	145	0.03	145	0.05	229	0		0.20	136	0.16	295	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sheepshead (cont.)																					
1992	3.09	267	0.27	354	0		0.03	65	0.67	121	0.15	149	0.05	164	0.05	465	0.40	187	0.35	242	
1993	5.24	257	0.25	311	0.55	287	0		0.87	134	0.05	101	0.10	203	0.05	473	1.05	156	0.47	228	
1994	1.55	281	0.10	287	0.90	309	0		0.23	187	0.13	133	0.03	165	0.10	509	0.55	225	0.17	256	
1995	2.70	244	0.32	322	0.15	301	0.08	123	1.27	177	0.30	139	0.08	158	0.10	181	0.90	161	0.47	221	
1996	1.95	300	0.40	403	1.15	328	0		0.95	181	0.18	116	0.15	253	0.15	464	1.10	115	0.42	274	
1997	2.30	303	1.10	312	1.55	314	0.10	119	0.47	152	0.25	172	0.10	288	0.20	364	1.10	252	0.63	280	
1998	3.09	333	0.47	362	1.55	331	0.05	161	0.72	177	0.13	153	0.13	265	0.20	296	0.40	248	0.44	297	
1999	1.55	307	0.23	376	0.90	315	0		0.23	275	0.13	150	0.05	294	0.25	332	0.25	119	0.21	312	
2000	1.10	341	0.25	324	1.25	333	0.15	195	0.25	246	0.62	185	0.05	280	0.15	322	2.75	153	0.37	236	
2001	2.35	282	0.32	340	0.60	354	0.05	274	0.13	267	0.27	252	0.18	400	0.35	252	2.20	148	0.38	270	
2002	1.55	329	0.37	340	0.75	348	0.03	97	0.15	279	0.23	237	0.10	404	0.15	345	1.85	158	0.32	286	
2003	1.30	353	0.50	353	0.55	326	0		0.18	259	0.35	151	0.08	238	0		1.30	206	0.33	304	
2004	1.60	321	0.27	429	1.00	379	0		0.15	250	0.18	286	0.03	260	0.10	440	0.25	190	0.21	355	
2005	1.65	340	0.08	437	0.65	338	0.03	298	0.23	218	0.13	102	0.13	117	0.10	414	0.30	122	0.17	287	
2006	0.85	326	0.32	358	0.55	266	0.05	284	0.27	186	0.13	174	0.15	209	0		0.35	210	0.23	295	
2007	1.50	282	0.10	424	1.60	309	0		0.35	156	0.13	166	0.05	304	0.10	429	0.25	84	0.18	265	
2008	1.45	278	0.13	418	0.80	290	0.03	109	0.25	244	0.20	127	0.03	372	0.10	160	0.55	212	0.19	276	
2009	0.85	262	0.20	359	1.50	282	0		0.10	242	0.08	272	0.05	404	0.35	106	0.75	103	0.18	259	
2010	1.85	315	0.32	423	1.90	285	0		0.32	120	0.57	92	0		0.30	368	0.65	120	0.32	280	
2011	1.50	335	0.47	377	2.35	316	0		0.30	131	1.02	117	0.08	134	0.65	194	1.45	140	0.44	252	
2012	0.90	343	0.25	397	1.75	328	0		0.08	114	0.08	126	0		0.20	422	0.10	328	0.16	354	
2013	0.70	260	0.45	372	0.80	347	0.05	170	0		0.05	117	0		0.10	417	0.45	159	0.22	325	
2014	1.50	320	0.50	406	2.50	329	0.27	78	0.10	120	0.08	96	0.20	453	0.10	366	0.60	80	0.36	302	
2015	1.25	309	0.25	399	0.95	306	0.05	82	0.32	84	0.30	137	0		0.15	296	0.30	132	0.23	263	
2016	1.50	358	0.30	384	1.80	303	0		0.62	119	0.23	112	0.05	107	0.35	290	0.20	76	0.30	270	
Southern Flounder																					
1982 ^a	ND		0.35	158	ND		0.25	169	0.57	155	1.08	186	0.60	181	1.71	203	0.15	296	0.57	175	
1983	ND		0.15	175	ND		0.37	196	0.28	120	1.08	180	0.13	242	0.29	203	0.23	161	0.30	179	
1984	ND		0.17	193	ND		0.07	194	0.15	153	2.07	148	0.42	171	1.28	145	0.30	168	0.39	161	
1985	ND		0.27	234	ND		0.23	202	0.58	147	1.38	152	0.70	221	0.93	197	0.33	261	0.48	192	
1986	0.40	141	0.87	161	ND		0.42	165	0.62	141	1.45	144	1.40	184	0.60	262	0.35	212	0.79	166	
1987	0.77	168	0.27	231	0.53 ^c	154	0.18	191	1.25	160	0.77	167	0.15	171	0		0.50	183	0.42	181	
1988	1.35	144	0.20	195	0.20	132	0.08	148	1.55	118	1.57	168	0.42	214	0.35	226	0.20	205	0.53	157	
1989	2.05	173	0.55	167	0.15	181	0.27	195	1.10	130	1.20	169	0.52	193	0.15	348	0.30	211	0.64	168	
1990	2.60	119	0.40	174	0.05	161	0.23	166	2.25	121	1.37	136	1.22	167	0.85	190	1.10	170	0.91	145	
1991	0.75	152	0.15	160	0.30	148	0.10	242	0.95	148	0.87	190	0.23	228	0.10	267	1.00	229	0.36	180	
1992	0.80	185	0.32	184	0.05	186	0.20	210	0.55	191	0.20	135	0		0		0.10	205	0.27	188	
1993	0.95	198	0.27	155	0.30	177	0.85	142	0.55	126	0.55	142	0.10	232	0.10	416	0.05	391	0.45	154	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern Flounder (cont.)																					
1994	0.80	214	0.52	160	0.30	230	0.15	162	0.35	226	0.37	189	0.10	323	0.05	236	0.50	223	0.35	186	
1995	0.80	138	0.30	192	0		0.15	225	0.52	170	0.35	220	0.05	111	0.05	332	0		0.27	186	
1996	0.60	214	0.23	197	0.35	162	0.87	151	0.50	156	0.27	181	0.37	210	0.40	163	0.60	221	0.46	173	
1997	0.80	218	0.65	219	0.90	159	0.87	202	0.67	178	0.52	216	0.08	188	0.15	240	0.30	236	0.59	207	
1998	1.30	167	0.97	154	0.70	222	0.60	173	0.57	147	0.62	223	0		0.25	236	0.05	200	0.64	165	
1999	1.55	216	0.18	193	0.50	161	0.42	199	0.13	140	1.05	208	0.03	203	0.25	170	0.05	386	0.33	201	
2000	0.65	192	0.32	214	0.35	324	0.13	187	0.15	180	0.32	260	0.03	305	0.05	291	0.15	357	0.22	217	
2001	0.90	206	0.47	197	0.15	144	0.27	204	0.37	170	0.60	163	0.13	220	0.10	190	0.60	163	0.39	190	
2002	1.55	147	0.37	163	0.20	290	0.60	200	0.25	180	1.02	211	0.10	364	0.25	281	0.25	238	0.46	191	
2003	1.55	187	0.30	146	0.25	167	0.23	193	0.67	164	0.30	204	0.08	194	0.15	211	0.05	450	0.34	174	
2004	0.35	239	0.37	197	0		0.15	215	1.07	156	0.45	188	0.08	290	0.05	191	0.05	101	0.35	185	
2005	0.95	210	0.37	196	0.25	234	0.10	237	0.40	210	0.25	214	0.08	208	0		0.05	230	0.27	206	
2006	0.55	289	0.15	235	0.05	310	0.05	351	0.23	234	0.08	169	0.03	381	0		0		0.12	256	
2007	0.10	296	0.30	162	0.15	174	0.10	136	0.27	140	0.67	183	0.08	259	0.10	276	0.10	151	0.23	169	
2008	0.50	226	0.20	196	0.10	235	0.08	211	0.32	221	0.32	250	0.03	222	0.10	242	0.10	160	0.18	215	
2009	0.35	209	0.10	183	0.05	288	0.10	319	0.30	230	0.10	162	0.03	415	0.15	208	0		0.13	229	
2010	0.70	243	0.18	237	0.25	253	0.25	225	0.55	135	0.35	196	0.10	239	0.15	155	0.15	179	0.26	200	
2011	0.40	239	0.08	212	0.15	255	0.15	228	0.40	201	0.30	240	0		0.40	173	0.20	117	0.18	209	
2012	0.75	181	0.15	203	0.10	412	0.05	210	0.08	276	0.08	274	0.08	268	0.20	206	0.05	289	0.13	213	
2013	0.30	220	0.25	204	0.05	241	0.23	116	0.03	251	0.03	199	0		0		0		0.15	177	
2014	1.00	145	0.13	263	0.10	318	0.20	208	0.62	185	0.15	200	0.13	235	0.30	173	0		0.25	198	
2015	0.70	204	0.35	189	0.20	189	0.18	246	0.62	193	0.15	187	0.18	261	0.30	260	0.10	135	0.31	206	
2016	0.15	188	0.10	264	0.05	250	0.05	243	0.42	192	0.08	206	0.08	290	0		0		0.12	224	
Spot																					
1982 ^a	ND		9	ND	ND		26	ND	5	ND	68	ND	33	ND	10	ND	4	ND	23	ND	
1983	ND		6	120	ND		17	122	5	112	18	118	36	140	2	163	6	135	13	127	
1984	ND		8	115	ND		34	107	35	84	131	91	74	112	84	118	10	108	40	102	
1985	ND		13	121	ND		20	118	13	110	60	116	215	132	25	137	19	129	44	127	
1986	6	120	14	120	ND		30	121	21	99	94	106	117	129	7	119	6	135	36	119	
1987	9	134	12	127	12 ^c	119	39	115	35	97	87	117	124	125	4	158	13	112	39	119	
1988	24	113	14	117	5	107	42	127	118	108	153	116	239	127	4	140	18	118	70	120	
1989	20	131	11	123	6	111	87	118	74	105	99	127	236	135	6	129	19	119	69	124	
1990	6	130	8	117	13	95	96	119	119	96	167	101	148	116	72	110	103	104	77	109	
1991	6	124	9	120	6	108	45	124	39	105	53	108	210	116	25	130	83	117	51	117	
1992	10	137	19	125	2	125	72	128	25	119	80	100	67	130	9	149	26	133	41	123	
1993	32	119	16	135	5	131	88	113	31	101	64	101	170	118	4	134	11	134	55	115	
1994	26	129	24	116	4	128	24	122	40	103	62	119	57	135	1	161	9	137	31	120	
1995	6	127	18	127	4	119	39	119	54	110	76	124	42	146	1	141	16	139	33	124	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spot (cont.)																					
1996	39	121	8	125	6	129	39	111	23	118	92	107	150	136	4	129	12	130	41	123	
1997	5	149	13	134	26	125	52	125	12	120	87	119	204	123	7	137	10	133	49	124	
1998	53	115	17	129	7	125	117	127	33	106	169	120	147	121	7	152	11	135	68	123	
1999	12	128	12	122	6	122	43	126	71	111	146	120	114	133	7	144	8	147	48	124	
2000	28	133	10	134	3	147	53	135	20	106	128	133	48	147	3	186	9	141	34	134	
2001	20	111	35	103	14	112	95	114	44	103	281	113	91	132	11	126	14	126	72	114	
2002	61	117	29	115	8	136	116	128	88	119	262	126	143	125	8	155	7	141	86	124	
2003	139	114	31	116	11	134	119	124	69	104	246	120	368	122	32	145	16	126	114	120	
2004	22	123	25	127	15	134	117	130	105	101	125	112	157	140	13	164	5	121	77	125	
2005	39	129	36	116	19	110	71	126	36	110	212	123	115	133	7	146	14	104	64	123	
2006	31	155	12	147	11	133	46	132	42	124	190	128	80	142	5	138	14	118	45	134	
2007	13	118	22	125	21	132	100	118	145	100	415	112	139	124	36	145	22	105	99	114	
2008	36	123	18	125	12	118	34	134	64	117	130	132	122	139	7	162	8	154	48	131	
2009	62	129	7	141	5	161	13	136	28	121	25	140	46	150	4	117	9	134	19	137	
2010	136	111	52	115	16	133	73	118	135	96	272	102	187	115	17	132	24	129	100	110	
2011	76	114	20	128	10	159	36	126	82	105	159	124	122	141	12	139	3	157	55	125	
2012	56	146	18	134	7	146	90	116	164	105	159	127	78	134	4	127	8	134	71	120	
2013	43	122	30	134	8	177	52	136	32	124	149	143	171	142	38	100	6	137	60	137	
2014	98	102	40	128	5	156	42	129	39	109	283	115	254	132	38	118	12	115	85	123	
2015	20	123	22	130	5	148	64	132	25	116	108	130	201	145	39	135	5	122	59	136	
2016	19	112	28	105	6	155	56	132	92	112	191	123	112	144	25	147	3	145	63	125	
Spotted Seatrout																					
1982*	ND		0.12	173	ND		0		0.08	232	0.27	163	0.08	187	1.18	166	0.30	142	0.16	174	
1983	ND		0.07	288	ND		0.10	155	0.17	168	1.68	206	0.27	327	1.85	189	0.23	200	0.35	216	
1984	ND		0.12	418	ND		0.03	174	0.03	252	0.38	237	0.33	385	0.21	351	0.43	236	0.15	328	
1985	ND		0.13	286	ND		0.05	171	0.12	156	0.67	156	0.22	171	0.78	146	0.20	218	0.20	193	
1986	0.08	187	0.30	259	ND		0.18	193	0.20	170	0.55	162	0.72	176	0.25	155	1.35	196	0.36	201	
1987	0.10	147	0.15	134	0.33*	162	0.10	143	0.62	166	0.97	164	0.25	163	1.15	206	0.15	198	0.33	167	
1988	0.20	188	0.05	172	0.20	166	0.08	249	0.27	159	1.67	166	0.27	175	0.60	176	0.10	95	0.27	172	
1989	0.10	227	0.20	142	0.15	128	0.05	175	0.30	190	1.20	168	0.37	228	0.70	186	0.70	139	0.32	174	
1990	0.10	334	0.03	118	0		0		0.08	119	0.10	176	0.08	123	0.10	114	0		0.04	150	
1991	0.25	251	0.13	165	0.05	184	0.08	134	0.42	136	1.37	154	0.47	161	0.70	124	1.15	177	0.37	155	
1992	0.35	194	0.40	155	0.05	150	0.32	155	0.62	149	1.70	182	0.03	219	1.60	175	0.95	185	0.55	167	
1993	0.30	196	0.13	161	0.15	130	0.20	133	0.15	149	0.57	181	0.05	239	1.55	174	0.45	216	0.27	170	
1994	0.15	142	0.18	145	0.25	220	0		0.70	127	0.30	199	0.08	235	1.00	175	0.35	247	0.25	159	
1995	0.20	172	0.30	145	0.30	190	0.10	182	0.82	156	1.15	193	0.25	218	1.10	167	1.10	157	0.45	168	
1996	0.40	180	0.10	152	0.35	174	0.05	140	0.62	167	0.70	192	0.18	235	1.45	180	0.40	184	0.31	178	
1997	0.15	183	0.35	170	0.30	140	0.18	239	0.55	175	0.72	165	0.08	165	0.90	157	0.30	127	0.35	175	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spotted Seatrout (cont.)																					
1998	0.15	171	0.45	166	0.45	195	0.13	178	0.45	174	1.72	171	0.40	175	1.45	170	0.45	222	0.51	172	
1999	0.20	217	0.20	185	0.55	196	0.08	202	0.35	146	1.17	188	0.37	196	1.70	156	0.20	160	0.37	176	
2000	0.05	239	0.15	99	0.50	160	0.13	132	0.27	194	1.65	205	0.35	254	2.00	122	0.25	198	0.40	169	
2001	0.20	244	0.20	150	0.10	162	0.05	100	0.30	156	0.97	158	0.27	186	1.00	118	0.20	109	0.29	151	
2002	0.05	178	0.30	163	0.10	222	0.10	189	0.23	172	1.65	176	0.15	229	0.55	127	0.45	128	0.34	169	
2003	0.55	165	0.18	142	0.15	156	0.15	163	0.42	142	1.25	187	0.10	207	0.80	183	0.35	181	0.33	167	
2004	0.35	170	0.30	174	0.10	193	0.13	137	0.27	186	0.50	181	0.23	187	2.20	169	0.20	82	0.36	170	
2005	0.50	177	0.62	165	0.50	142	0.23	169	0.30	167	0.62	186	0.23	225	1.85	169	0.80	107	0.52	168	
2006	0.80	182	0.13	173	0.15	181	0.08	183	0.85	158	1.87	152	0.15	211	0.55	156	0.10	180	0.39	163	
2007	0.05	286	0.18	177	0.15	186	0.23	153	0.57	112	0.80	203	0.13	228	1.25	157	0.50	99	0.34	159	
2008	0.80	128	0.13	149	0.35	205	0.25	123	0.57	128	0.82	168	0.08	263	1.65	157	0.35	209	0.38	149	
2009	0.65	171	0.15	181	0.55	85	0.52	183	0.52	157	0.72	182	0.27	216	1.65	144	0.10	200	0.44	172	
2010	0.45	234	0.18	171	0.20	311	0.10	230	0.97	173	0.92	176	0.05	153	1.55	157	0.80	183	0.41	176	
2011	0.05	170	0.10	140	0.20	221	0.05	191	0.32	118	1.95	201	0.10	169	1.90	153	0.55	180	0.37	171	
2012	0.25	168	0.08	157	0.05	168	0		0.13	247	0.27	178	0		1.60	81	0.45	155	0.17	129	
2013	0.50	161	0.10	164	0.10	95	0.18	213	0.30	155	0.23	187	0.15	190	1.05	164	0.50	122	0.24	170	
2014	0.80	150	0.47	174	0.75	196	0.18	186	0.15	179	0.18	183	0.60	166	1.25	116	0.75	163	0.43	163	
2015	0.60	142	0.20	250	0.20	291	0.10	229	0.30	223	0.62	171	0.13	246	4.04	112	0.65	184	0.45	163	
2016	0.10	183	0.08	272	0		0		0.50	186	0.92	210	0.23	160	2.75	137	0.50	208	0.36	176	
Striped Mullet																					
1982 ^a	ND		0.15	ND	ND		0.05	ND	1.43	ND	1.68	ND	1.53	212	0.85	311	0.15	ND	0.82	243	
1983	ND		1.27	204	ND		0.03	131	1.78	137	2.65	209	0.73	211	2.35	323	1.23	331	1.16	203	
1984	ND		0.62	244	ND		0.20	204	0.32	174	1.08	192	0.73	209	5.84	287	1.33	307	0.85	241	
1985	ND		2.42	195	ND		0.03	163	0.13	136	7.00	158	0.50	168	0.93	243	0.10	254	1.53	180	
1986	0.05	187	3.59	255	ND		0.02	116	0.10	157	0.35	158	0.82	226	0.10	278	0.20	266	1.33	250	
1987	0.77	168	1.60	292	0.40 ^c	158	0.05	200	4.34	145	1.10	171	0.85	192	0		0		1.30	210	
1988	1.62	239	2.20	294	0.35	167	0.05	139	0.62	130	0.52	156	3.29	185	0.05	334	0		1.30	243	
1989	4.79	183	4.77	249	1.45	164	0.32	237	0.95	188	0.20	187	1.20	220	0		0.05	365	2.10	236	
1990	0.30	235	0.57	192	0.20	133	0.12	141	0.50	137	0.85	155	0.27	239	0.15	292	0		0.40	180	
1991	4.59	174	2.97	213	0.15	114	0.02	178	6.96	141	2.52	141	0.82	217	1.85	279	0.20	276	2.44	181	
1992	6.44	232	5.19	232	0		0.30	129	3.32	145	4.27	143	0.57	213	0.30	215	0.05	178	2.86	206	
1993	1.30	209	0.95	260	0.15	172	0.05	157	1.17	148	1.30	168	0.62	219	0.05	334	0.05	244	0.70	213	
1994	4.34	261	0.72	189	0.25	207	0.15	141	0.82	144	3.42	184	0.82	260	0.15	354	0.05	240	0.93	204	
1995	1.05	190	3.12	261	0.15	333	0		0.32	134	1.55	191	3.49	196	0		0.05	220	1.62	234	
1996	2.05	209	13.02	274	0.85	181	0.15	151	1.02	220	2.99	243	0.50	176	0.40	350	0		4.79	268	
1997	1.00	241	5.09	248	0.85	222	0.50	137	3.09	195	3.47	176	0.15	215	3.99	213	0.30	172	2.71	225	
1998	3.94	226	2.17	300	0.30	198	0.05	180	0.75	197	4.19	172	0.65	175	0.20	299	0.05	309	1.39	246	
1999	1.15	253	0.65	245	0.10	181	0.15	168	1.72	160	7.51	196	1.55	204	0.15	239	0.10	287	1.28	201	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped Mullet (cont.)																					
2000	2.20	247	2.99	255	2.89	179	0.17	169	1.12	199	7.01	231	2.25	245	1.00	317	0.10	197	2.12	243	
2001	1.90	279	2.50	250	0.65	234	1.32	125	2.79	188	7.04	226	0.85	191	0.65	325	0.15	271	2.22	217	
2002	5.84	199	2.42	248	0.20	265	1.77	156	12.38	148	13.55	219	2.05	216	0.30	303	0.05	256	4.29	192	
2003	2.59	213	3.72	248	1.95	232	0.40	153	1.85	156	8.73	200	4.37	177	3.04	254	0.10	226	2.99	214	
2004	2.05	226	3.34	257	3.24	223	2.30	152	1.75	160	5.16	169	1.25	240	0.85	344	0.10	239	2.50	213	
2005	4.24	246	2.27	170	3.24	196	0.25	159	0.92	152	5.04	168	3.02	230	0.50	278	0.25	222	1.88	188	
2006	1.95	254	1.10	259	1.25	200	0.75	178	2.15	203	6.01	186	1.05	181	0.35	290	0.30	210	1.50	211	
2007	7.29	237	5.56	250	1.65	233	0.45	177	4.24	153	14.65	170	9.23	175	1.10	276	0.60	216	5.04	204	
2008	1.75	182	4.24	191	0.60	273	0.32	157	1.72	168	22.90	165	1.10	198	0.65	279	0.25	168	3.69	177	
2009	2.54	234	1.70	232	1.30	239	0.40	149	0.97	182	1.02	162	2.62	204	0.55	292	0.20	202	1.29	212	
2010	39.17	240	15.69	229	1.60	228	0.67	134	1.17	140	12.60	143	0.92	180	0.55	326	1.85	142	8.23	217	
2011	10.33	217	2.02	241	2.37	224	0.10	142	1.60	168	5.59	178	4.28	182	1.65	282	1.30	217	2.39	207	
2012	5.14	247	1.00	244	1.65	261	0.22	166	0.65	179	1.1	212	3.57	218	1.3	325	0.3	250	1.26	231	
2013	14.72	235	4.17	258	1.65	251	0		0.87	155	0.52	183	2.17	177	3.19	280	1.85	186	2.62	239	
2014	11.63	191	2.69	243	8.43	257	0.02	152	1	148	0.52	124	4.99	205	3.64	284	0.1	194	2.34	219	
2015	5.04	208	3.34	229	2.59	205	0.52	149	2.35	151	1.30	154	3.87	188	4.74	271	0.60	203	2.54	208	
2016	2.99	230	4.24	206	3.54	202	0.20	195	3.67	167	1.57	171	0.55	203	4.39	289	1.25	268	2.49	207	
Total finfish																					
1982 ^a	ND		88	199	ND		186	213	46	179	269	119	363	167	287	231	152	183	192	161	
1983	ND		63	126	ND		162	99	106	93	173	108	308	139	174	115	143	139	139	117	
1984	ND		46	123	ND		111	104	104	82	313	86	294	124	202	123	169	130	134	108	
1985	ND		82	117	ND		115	114	96	101	214	106	381	129	99	127	149	128	142	118	
1986	29	151	97	122	ND		129	112	121	97	266	104	384	132	88	109	192	132	154	118	
1987	54	136	85	121	66 ^c	117	246	107	307	100	360	101	377	131	65	117	160	126	204	113	
1988	103	131	140	101	50	122	190	118	369	107	521	108	642	127	77	104	170	119	264	114	
1989	100	137	113	119	44	105	268	122	300	106	353	109	789	131	54	103	200	121	267	121	
1990	87	122	96	116	41	108	287	118	310	102	388	106	449	123	375	88	574	119	261	113	
1991	73	127	179	106	41	109	366	104	353	97	430	102	625	122	212	125	534	123	324	109	
1992	96	152	169	121	23	102	463	105	273	98	451	97	341	121	108	130	315	129	287	111	
1993	159	142	205	107	56	132	303	107	169	103	371	110	441	131	88	113	274	128	256	114	
1994	84	152	197	111	55	150	233	110	301	92	272	104	271	123	87	106	207	130	222	110	
1995	60	128	220	103	70	130	377	99	335	101	344	120	337	134	54	122	283	132	278	109	
1996	169	123	152	118	86	104	180	106	139	117	326	109	440	136	92	107	262	135	205	120	
1997	145	133	220	110	86	135	277	117	104	122	350	116	665	129	70	134	194	130	267	120	
1998	214	129	167	115	53	144	332	111	161	116	452	115	567	128	71	124	191	128	268	118	
1999	106	135	99	112	87	118	255	105	207	118	426	120	687	135	73	121	177	133	242	121	
2000	168	135	124	114	83	131	209	115	134	113	628	126	507	143	106	112	209	128	231	125	
2001	182	113	267	103	75	120	427	104	182	107	623	120	415	138	127	107	327	99	326	111	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfish (cont.)																					
2002	191	121	185	119	73	148	395	111	337	107	739	126	668	132	71	130	181	131	342	120	
2003	363	114	189	112	90	158	395	111	370	99	676	118	999	133	132	128	164	132	391	118	
2004	171	105	272	103	122	155	435	117	358	103	389	117	782	133	128	123	211	121	372	116	
2005	243	111	292	105	138	125	472	110	237	106	591	117	588	134	97	115	268	111	368	114	
2006	269	146	186	128	126	138	281	128	283	112	593	122	573	139	89	101	180	108	293	127	
2007	267	98	307	107	149	137	295	122	539	106	972	117	609	135	149	125	221	114	406	116	
2008	409	103	190	128	156	131	272	120	348	114	402	129	720	141	88	139	227	128	311	127	
2009	344	133	125	140	121	151	113	132	206	121	205	130	430	136	148	111	211	125	188	132	
2010	422	127	205	131	101	153	223	125	552	101	795	111	696	121	147	120	255	119	363	118	
2011	416	104	151	129	81	177	136	128	308	111	522	123	579	128	142	120	285	121	262	123	
2012	374	112	218	133	92	164	271	121	423	108	471	124	394	130	157	95	141	125	295	122	
2013	348	112	201	128	62	176	142	138	186	120	358	127	741	133	221	87	171	122	267	127	
2014	391	94	248	110	84	166	171	117	221	104	610	105	1011	135	206	114	198	116	345	117	
2015	237	97	465	112	88	146	290	104	440	72	501	112	997	123	299	114	208	109	458	109	
2016	182	102	396	108	107	163	287	128	496	116	625	123	736	128	228	129	203	120	416	119	
SHELLFISHES																					
Blue crab																					
1982 ^a	ND		28	90	ND		5	99	17	81	29	66	7	97	9	148	10	100	17	86	
1983	ND		24	88	ND		10	86	21	80	40	81	2	95	7	113	12	96	18	86	
1984	ND		19	92	ND		4	88	8	82	31	81	8	88	23	106	50	86	15	89	
1985	ND		30	79	ND		10	85	19	76	23	72	5	115	20	103	36	86	20	81	
1986	6	133	28	79	ND		13	85	19	85	25	78	14	88	8	100	15	85	20	82	
1987	5	135	19	78	28 ^c	87	10	77	41	93	18	84	7	95	8	108	20	88	17	86	
1988	5	137	9	71	13	91	3	77	90	75	59	63	7	88	7	98	18	84	22	74	
1989	9	135	25	66	52	63	6	80	50	74	24	68	2	94	3	107	9	77	19	72	
1990	6	98	32	72	15	79	4	90	40	69	17	71	14	96	5	93	34	91	21	76	
1991	7	117	11	64	27	76	6	75	69	58	52	58	7	102	5	105	35	89	21	65	
1992	7	139	8	77	2	102	7	65	107	54	39	56	10	81	26	110	28	98	25	65	
1993	6	131	16	70	6	93	14	82	51	80	35	78	10	96	17	114	23	88	21	81	
1994	4	146	16	74	3	90	23	85	72	47	27	72	3	66	21	83	25	93	24	67	
1995	2	133	8	58	3	111	8	74	26	55	12	67	4	69	11	76	18	84	10	64	
1996	9	107	15	60	7	107	16	82	14	75	10	72	5	78	4	86	13	87	13	73	
1997	5	131	16	52	5	138	19	73	21	70	12	68	4	82	7	99	16	88	15	67	
1998	11	126	21	65	8	122	13	76	15	86	20	77	6	83	9	99	13	86	15	75	
1999	7	108	5	79	9	93	7	70	3	94	9	76	3	91	8	91	13	80	6	80	
2000	4	148	10	71	4	57	6	72	6	82	8	77	2	94	2	92	6	76	7	76	
2001	2	135	12	61	2	97	5	69	13	87	12	87	4	71	0.90	96	6	79	8	72	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Blue crab (cont.)																					
2002	5	111	10	70	6	132	4	98	10	79	20	77	3	101	2	73	4	81	8	79	
2003	4	125	4	85	5	140	4	85	15	75	9	91	2	97	7	104	15	98	6	87	
2004	8	128	5	76	3	144	5	89	18	74	8	83	3	69	2	88	3	101	7	81	
2005	6	122	3	94	1	123	2	96	13	71	5	73	2	59	3	81	2	90	4	82	
2006	7	138	3	86	1	130	3	88	9	77	8	73	2	60	0.75	49	3	89	4	84	
2007	3	140	3	109	5	144	2	95	7	96	10	97	3	103	7	115	4	111	4	104	
2008	7	110	3	91	5	130	5	91	8	82	9	97	3	112	8	101	5	108	5	95	
2009	11	122	3	126	7	45	3	81	10	87	11	82	2	74	1	44	12	88	5	94	
2010	2	120	0.75	103	2	137	1	114	16	90	8	102	2	90	5	99	7	81	4	95	
2011	4	123	2	40	2	151	1	65	12	78	14	61	2	105	10	82	17	85	5	74	
2012	3	130	3	44	0.85	113	4	87	12	80	4	70	2	58	2	34	6	66	4	72	
2013	2	107	0.97	79	0.25	141	1	53	4	79	5	74	0.85	59	2	30	2	79	2	72	
2014	4	123	2	56	0.55	125	3	45	8	75	3	64	3	59	3	50	3	66	3	64	
2015	3	103	3	104	2	137	3	81	17	84	6	74	3	102	10	77	10	73	6	86	
2016	5	136	0.70	82	3	146	2	94	9	91	6	96	4	60	4	63	5	87	3	89	
Brown shrimp																					
1982 ^a	ND		23	90	ND		25	94	17	101	54	80	40	91	38	101	6	61	31	90	
1983	ND		12	99	ND		26	100	31	99	57	91	8	98	7	102	9	66	21	97	
1984	ND		13	102	ND		7	102	58	96	107	80	50	103	24	108	6	74	30	94	
1985	ND		33	75	ND		24	89	27	90	68	81	24	96	15	108	11	63	30	83	
1986	0.42	99	15	94	ND		29	99	70	98	113	96	43	95	7	108	15	64	35	96	
1987	4	92	25	87	7 ^c	76	48	89	95	85	103	88	67	94	8	100	5	70	47	88	
1988	3	85	24	84	10	91	32	100	126	91	141	86	17	89	6	93	3	73	44	90	
1989	8	84	29	84	48	97	42	90	159	90	107	85	17	88	5	92	9	63	50	88	
1990	1	113	11	98	41	100	26	96	106	92	80	90	28	88	13	91	27	79	34	92	
1991	1	93	13	87	64	96	22	86	52	89	161	91	29	91	20	97	8	80	33	90	
1992	3	83	39	82	9	90	23	82	66	82	65	81	31	92	40	110	7	73	37	84	
1993	9	79	19	85	14	69	43	94	46	82	97	88	23	87	13	103	5	67	33	88	
1994	9	83	29	99	3	69	52	95	103	88	37	85	11	88	19	103	55	58	42	91	
1995	1	91	12	83	9	65	55	84	102	75	109	84	23	90	15	91	14	70	42	81	
1996	8	89	14	95	25	63	23	101	37	89	70	80	20	94	13	82	7	86	23	91	
1997	7	81	13	91	4	62	30	89	23	80	72	79	16	91	24	107	13	68	23	86	
1998	51	82	28	87	16	66	17	92	34	87	34	80	53	87	24	106	9	74	30	87	
1999	8	69	13	81	12	67	16	84	14	77	22	75	6	84	16	89	2	71	13	81	
2000	61	81	59	89	38	69	48	92	49	89	48	79	9	84	17	93	1	76	44	88	
2001	16	90	51	89	64	76	31	97	61	85	93	85	23	85	8	78	75	45	45	86	
2002	7	78	30	84	13	75	23	87	58	82	38	80	63	87	11	99	1	67	33	84	
2003	12	70	32	87	4	72	25	90	182	78	22	81	6	86	30	117	3	70	44	83	

TABLE 4.—(Cont.)

Species	<u>Sabine Lake</u>		<u>Galveston</u>		<u>East Matagorda</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Corpus Christi</u>		<u>Upper Laguna Madre</u>		<u>Lower Laguna Madre</u>		<u>Coastwide^b</u>		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Brown shrimp (cont.)																					
2004	9	62	26	82	2	73	45	87	144	77	26	73	19	87	19	107	1	72	42	81	
2005	6	74	14	92	7	70	34	83	89	79	34	77	28	81	14	96	11	77	31	82	
2006	26	73	13	84	4	73	22	92	125	85	21	82	13	79	14	75	3	71	30	85	
2007	7	68	27	77	13	62	25	86	247	81	98	79	7	83	10	99	2	65	55	81	
2008	91	71	20	81	29	68	16	80	151	75	23	78	15	90	28	83	5	72	38	77	
2009	50	80	9	89	9	70	14	99	87	99	65	100	31	84	15	90	37	65	30	93	
2010	13	63	7	82	2	63	10	92	170	80	145	83	66	89	21	84	5	64	47	83	
2011	64	81	7	82	1	67	7	84	131	92	47	87	10	87	25	75	4	62	29	88	
2012	68	85	12	87	6	72	29	95	107	84	45	82	13	76	13	71	6	73	33	86	
2013	33	76	22	85	1	72	4	95	63	98	24	89	12	88	15	62	5	61	21	89	
2014	31	84	13	87	12	75	19	92	48	98	37	93	61	85	16	79	6	61	27	90	
2015	9	79	35	74	21	77	109	85	89	89	72	91	105	92	27	82	11	61	66	85	
2016	4	80	9	67	7	69	20	84	34	84	25	78	27	90	31	95	3	56	19	82	
Pink shrimp																					
1982 ^a	ND		0.08	94	ND		0.23	119	0.20	96	6.82	89	1.78	100	0.60	96	0		1.30	94	
1983	ND		0.28	95	ND		1.40	112	4.58	95	8.83	94	1.82	103	0.80	113	0.60	88	2.03	99	
1984	ND		0		ND		0.28	76	0.03	73	2.68	86	3.02	109	0.27	94	0.17	71	0.68	98	
1985	ND		0.08	88	ND		0.43	104	2.95	98	3.80	100	4.73	96	4.27	107	0.80	98	1.67	99	
1986	0		0.05	118	ND		2.55	114	4.47	103	11.40	101	12.15	103	1.10	109	0.05	70	3.50	104	
1987	0		0.20	111	2.60 ^c	102	4.69	95	2.47	92	5.99	84	11.80	101	0.85	107	1.55	72	3.34	96	
1988	0		0.60	79	0.15	110	1.70	89	6.01	86	20.86	82	8.66	93	0.45	76	2.15	77	4.06	86	
1989	0		0.10	91	0.20	94	1.05	102	7.76	93	14.42	91	8.61	95	0.45	85	1.30	80	3.44	93	
1990	0		0.03	84	0		0.47	106	0.80	97	23.78	88	4.29	97	2.79	71	2.65	85	2.81	90	
1991	0		0.08	101	0.90	115	1.77	102	8.53	84	27.25	88	7.76	97	4.14	103	4.14	79	4.89	90	
1992	0		0.08	58	0.15	102	0.42	87	0.20	70	7.34	77	9.93	95	9.13	103	20.46	82	3.16	89	
1993	0		0.10	87	0		0.37	100	1.00	86	5.51	76	3.92	91	1.05	98	3.84	79	1.33	85	
1994	0		0.03	92	0.40	89	3.02	104	4.79	78	6.24	85	4.59	89	3.69	93	15.32	63	3.09	84	
1995	0		0.05	89	2.40	80	10.45	97	6.44	82	4.02	90	12.82	100	4.19	95	6.74	70	5.40	94	
1996	0		0.72	101	2.00	90	1.40	113	7.44	92	4.29	91	4.94	100	3.34	88	5.39	63	2.79	94	
1997	0		0.20	92	0.60	76	3.04	98	4.32	96	13.67	94	14.05	104	2.15	99	5.44	78	4.29	98	
1998	0		0.27	94	1.60	83	2.02	97	3.47	85	6.39	80	14.15	89	3.64	83	5.79	59	3.53	86	
1999	0		0.03	110	1.95	80	0.82	85	0.10	75	2.15	85	1.95	94	5.94	100	2.60	74	1.02	90	
2000	0		1.80	97	1.00	82	2.47	102	3.87	91	8.91	81	2.60	87	3.09	80	3.59	63	2.91	89	
2001	0		0.75	87	0.80	83	4.29	102	6.16	98	9.26	86	9.58	97	5.59	65	3.49	79	4.22	93	
2002	0		0.18	90	0.35	86	0.27	97	0.32	79	3.52	81	5.86	96	0.80	114	3.19	59	1.28	89	
2003	0		0		0		0.18	83	0		0.67	72	2.00	94	1.20	101	2.05	70	0.47	87	
2004	0		0		0		0.27	96	2.52	89	0.95	78	4.09	103	1.85	114	1.35	63	1.08	96	
2005	0		0		0.10	77	0.35	96	0.45	85	1.02	81	3.84	88	4.44	98	8.93	71	1.25	85	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pink shrimp (cont.)																					
2006	0			0.13	99	0.05	87	0.40	113	2.82	95	13.12	78	4.77	81	3.99	65	3.24	79	2.40	82
2007	0			0		0.10	80	0.85	103	5.29	64	7.36	90	3.92	94	2.30	93	0.90	61	2.04	83
2008	0			0		0.05	59	0.15	107	0.32	89	3.62	83	2.92	97	3.29	100	2.84	81	0.98	92
2009	0			0		0		0.55	108	1.87	95	11.55	94	4.59	94	2.25	81	2.99	73	2.02	93
2010	0			0		0		0.30	106	4.49	93	2.20	89	3.97	98	3.19	77	3.29	78	1.57	91
2011	0			0		0.55	99	0.30	113	1.77	99	3.34	91	2.66	97	4.69	75	4.94	70	1.30	89
2012	0			0		0.10	93	0.12	79	6.94	103	5.54	93	2.54	97	3.44	75	2.15	74	1.90	96
2013	0			0.02		0		0.30	100	2.52	94	7.44	94	4.77	102	1.10	60	0.30	67	1.59	95
2014	0			0.05	110	0.20	106	0.80	109	10.90	104	2.79	87	4.29	99	0.80	78	2.59	67	2.43	100
2015	0			0		0.15	81	2.35	95	13.87	101	5.41	90	15.94	107	5.59	62	5.29	69	5.04	98
2016	0			0		0		0.22	90	7.34	86	0.37	92	18.69	96	3.84	97	5.19	69	3.58	92
White shrimp																					
1982 ^a	ND			86	92	ND		39	86	14	99	16	95	26	101	16	110	3.75	61	43	93
1983	ND			78	93	ND		20	102	13	96	18	100	14	111	6	112	1.57	86	36	95
1984	ND			58	98	ND		15	99	8	99	38	106	24	106	10	126	10.23	109	31	100
1985	ND			62	99	ND		21	110	23	91	17	106	22	104	6	120	0.83	105	33	101
1986	15	105	45	95	ND		61	98	16	96	13	101	19	98	3	108	5.59	57	34	97	
1987	23	101	38	97	23 ^c	92	17	97	42	87	10	94	15	99	2	105	2.30	76	25	95	
1988	40	107	22	91	8	95	16	98	41	93	16	91	13	95	3	102	0.30	79	20	94	
1989	29	87	30	89	11	98	10	98	44	99	7	98	9	100	3	97	0.10	115	20	94	
1990	51	90	14	98	15	103	17	115	48	97	14	108	22	98	22	100	0.75	113	21	100	
1991	17	91	78	97	6	99	11	95	28	94	31	89	25	121	14	113	1.20	107	38	98	
1992	37	88	60	93	5	99	32	96	24	95	54	93	6	111	6	114	1.05	104	36	94	
1993	11	81	39	91	31	83	17	97	19	88	20	96	10	90	15	96	1.65	97	23	92	
1994	45	96	96	80	15	97	9	107	45	87	6	101	35	91	10	109	2.35	94	46	84	
1995	4	93	56	90	35	87	11	101	28	86	9	98	6	103	7	104	8.63	93	27	92	
1996	32	97	18	98	88	89	14	109	18	95	5	105	3	109	4	105	0.85	99	14	100	
1997	48	78	51	95	25	95	27	101	38	96	28	91	4	111	2	112	2.30	72	32	95	
1998	49	87	62	89	168	76	42	84	40	89	35	94	9	100	5	109	0.90	102	41	88	
1999	18	83	36	92	54	83	22	106	19	94	21	95	18	103	7	112	0.25	77	24	96	
2000	22	98	27	93	57	88	8	109	6	102	11	108	3	103	2	113	0.10	97	14	97	
2001	46	84	46	88	51	90	27	97	33	89	18	99	3	110	10	86	0.80	69	30	90	
2002	20	90	68	85	72	95	46	97	35	87	57	92	9	100	5	104	0.40	78	43	89	
2003	135	93	47	92	70	84	27	96	38	84	69	95	16	111	6	115	0.70	100	39	93	
2004	198	81	95	88	131	81	46	96	79	84	29	95	2	114	11	121	0.35	80	63	88	
2005	74	96	40	93	119	92	50	106	27	86	27	95	14	83	8	111	0.65	90	35	97	
2006	70	98	49	98	42	93	32	99	16	99	24	103	3	111	14	105	0.80	73	31	99	
2007	131	84	110	87	82	76	69	97	155	83	211	95	42	84	9	122	0.25	101	98	89	

TABLE 4.—(Cont.)

Species	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide ^b		
	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
White shrimp (cont.)																					
2008	193	86	78	97	121	89	35	107	38	102	183	101	7	117	13	106	1.45	83	62	98	
2009	106	95	34	104	40	97	24	116	12	112	6	108	4	106	12	103	0.85	92	24	105	
2010	62	90	47	101	23	94	35	97	79	92	30	102	2	113	6	107	4.74	91	39	97	
2011	19	112	18	101	11	99	13	112	16	95	7	98	3	102	12	94	1.35	77	13	103	
2012	57	87	51	107	16	97	12	120	21	108	5	114	28	104	12	89	1.05	93	29	106	
2013	49	85	28	106	12	85	8	106	13	109	7	108	3	102	12	96	0.45	72	16	103	
2014	29	96	22	99	22	95	7	101	7	110	6	117	2	114	4	92	0.20	88	12	101	
2015	44	83	123	90	31	95	9	110	35	98	16	106	18	124	9	122	0.60	98	52	94	
2016	24	103	96	102	13	95	33	104	57	95	27	109	9	143	5	116	1.00	73	50	103	

^aValues include May-Dec. only. ^b1986 values include Sabine Lake; 1987 values include East Matagorda Bay. ^cValues include Apr.-Dec. only.

TABLE 5.—Annual mean catch rates (No./h) and mean total lengths (mm) of select fishes and shellfishes caught with 6.1-m trawls in the Texas Territorial Sea during 1985-2016. Blank indicates no measurement taken; ND = no data.

Species	Year	Sabine		Galveston		Port O'Connor		Port Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
FINFISHES													
Atlantic Croaker													
	1985 ^a	ND		22	145	42	139	17	145	9	149	21	143
	1986	45 ^b	134	46	126	100	136	44	130	9	132	49	132
	1987	9	114	112	119	66	131	29	134	0	157	43	124
	1988	80	122	79	118	91	132	24	130	2	128	56	125
	1989	66	115	119	117	77	128	28	128	7	137	60	121
	1990	178	117	142	111	71	135	67	131	5	119	92	120
	1991	277	111	99	130	205	121	79	130	4	162	133	119
	1992	228	111	232	116	156	116	83	106	6	126	141	113
	1993	427	110	203	110	75	123	93	121	10	144	162	113
	1994	143	115	111	126	76	141	2	114	14	143	69	125
	1995	81	116	34	123	114	119	21	133	1	121	50	119
	1996	257	118	89	128	29	117	7	117	8	143	78	121
	1997	153	118	95	118	199	134	52	133	18	136	103	126
	1998	240	111	130	115	72	114	48	128	12	140	101	115
	1999	160	116	75	117	49	128	17	124	2	126	61	119
	2000	168	113	178	123	34	129	13	114	1	108	78	119
	2001	273	125	380	112	283	122	66	117	13	151	203	119
	2002	227	103	109	126	113	132	36	118	13	156	99	117
	2003	123	116	87	118	98	128	42	125	32	135	76	122
	2004	119	109	103	115	91	137	42	133	6	142	72	121
	2005	215	107	295	102	109	129	60	139	9	133	138	111
	2006	294	112	91	112	35	146	10	123	17	136	89	116
	2007	827	104	649	110	435	129	119	128	51	137	416	113
	2008	1,279	103	916	106	240	131	31	131	8	160	495	107
	2009	467	112	571	119	102	124	18	155	4	144	232	117
	2010	759	105	581	120	299	129	256	125	68	138	393	117
	2011	803	113	1064	106	195	136	58	133	28	154	433	113
	2012	833	102	367	113	261	119	40	137	14	159	303	109
	2013	546	112	613	119	69	133	97	138	1	149	265	118
	2014	309	106	238	110	70	146	29	120	9	141	132	113
	2015	546	111	749	121	333	133	243	133	8	139	376	122

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Atlantic Croaker (cont.)													
	2016	322	113	441	117	545	123	243	130	9	151	312	121
Black Drum													
	1985 ^a	ND		0		0		0.02	825	0		0.01	825
	1986	0 ^b		0		0.03	900	0		0		0.01	900
	1987	0.03	851	0.03	760	0.03	680	0.03	680	0		0.02	743
	1988	0		0.03	752	0		0		0		0.01	752
	1989	0.06	698	0		0.03	506	0		0		0.02	634
	1990	0		0.06	529	0		0		0		0.01	529
	1991	0		0.03	970	0		0		0		0.01	970
	1992	0		0		0.03	889	0		0		0.01	889
	1993	0.03	146	0.03	825	0		0		0.06	780	0.02	633
	1994	0		0.09	843	0		0		0		0.02	843
	1995	0.03	871	0.03	142	0		0		0		0.01	507
	1996	0		0		0		0		0		0	
	1997	0		0		0		0		0		0	
	1998	0.09	903	0.07	900	0		0.03	930	0		0.04	906
	1999	0.06	889	0		0		0.03	931	0		0.02	903
	2000	0		0.10	895	0		0.06	961	0		0.03	921
	2001	0.09	545	0.03	941	0		0		0		0.02	644
	2002	0.16	782	0.03	859	0		0		0		0.04	795
	2003	0.06	755	0.12	845	0		0.03	690	0		0.04	797
	2004	0.16	706	0.03	832	0.03	761	0		0		0.04	732
	2005	0.09	690	0.06	899	0		0		0		0.03	774
	2006	0.16	597	0		0		0.03	790	0		0.04	629
	2007	0.25	712	0.03	555	0		0		0		0.06	695
	2008	0.19	576	0.03	878	0		0.06	824	0		0.06	665
	2009	0.37	711	0.09	310	0.03	176	0.03	153	0		0.11	576
	2010	0.34	638	0.09	721	0.06	888	0		0		0.10	682
	2010	0.34	638	0.09	721	0.06	888	0		0		0.10	682
	2011	0.22	483	0.09	673	0		0		0		0.06	540
	2012	0.22	503	0.03	831	0		0		0.03	769	0.06	569
	2013	0.37	579	0.03	145	0		0.03	790	0		0.09	563
	2014	0.12	561	0.12	629	0.03	786	0		0		0.06	616
	2015	0.06	693	0.06	821	0		0		0		0.02	757
	2016	0.06	730	0.25	800	0.03	836	0		0		0.07	790

TABLE 5.—(Cont.)

Species	Year	Sabine		Galveston		Port O'Connor		Port Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gafftopsail Catfish													
	1985 ^a	ND		0.5	165	0.25	156	0.07	136	0		0.17	158
	1986	13.37 ^b	121	0.25	119	0.09	115	0.06	177	0		1.79	122
	1987	2.71	116	0		0.09	158	0.03	134	0		0.57	118
	1988	1.72	118	0.16	169	0.09	168	0		0.03	180	0.40	125
	1989	1.56	144	1.12	123	0.03	546	0.20	187	0		0.59	143
	1990	3.21	119	0.16	123	0		0		0		0.67	119
	1991	1.34	145	0.16	170	0.03	181	0.10	178	0		0.33	150
	1992	11.79	125	0.94	148	0.12	148	0.07	209	0		2.60	127
	1993	5.93	123	0.5	129	0.31	182	0.16	145	0		1.38	127
	1994	5.64	131	2.12	152	0.13	239	0.65	204	0		1.72	143
	1995	5.55	131	1.47	141	0		0.52	155	0		1.52	135
	1996	4.77	122	1.12	136	0.22	238	1.03	190	0		1.43	138
	1997	5.21	118	0.53	241	0		0.16	287	0		1.18	134
	1998	10.54	124	1.59	155	0.36	199	0.16	180	0		2.56	131
	1999	13.13	128	2.78	144	0.31	162	0.55	165	0.03	198	3.38	132
	2000	5.55	132	0.22	151	0.09	225	0.09	180	0		1.20	135
	2001	9.79	120	2	156	0.78	150	0		0		2.51	128
	2002	8.45	129	5.3	137	1.37	207	0.87	174	0		3.18	141
	2003	21.74	120	7.73	122	2.34	169	0.78	177	0		6.52	126
	2004	11.32	121	1.2	158	1.50	188	0.75	175	0		2.97	134
	2005	27.6	122	7.98	139	0.34	177	0.75	192	0.03	158	7.40	128
	2006	36.05	137	3.27	156	3.54	186	0.81	176	0		8.74	143
	2007	18.9	135	5.05	144	2.37	185	1.93	181	0.03	155	5.66	144
	2008	26.26	136	4.58	148	2.81	170	0.50	187	0		6.83	141
	2009	18.28	144	5.52	154	0.62	235	0.56	212	0.03	142	5.00	150
	2010	52.15	131	8.95	130	3.06	143	2.00	168	0.09	185	13.25	133
	2011	23.67	121	1.5	164	1.37	175	0.72	165	0		5.5	127
	2012	20.46	108	6.86	139	1.37	179	2.00	197	0		6.14	124
	2013	36.33	132	8.20	145	3.80	166	2.46	192	0		10.16	139
	2014	22.21	142	1.31	162	1.68	162	0.75	337	0		5.23	150
	2015	12.79	132	3.49	154	3.27	157	1.87	168	0		4.29	143
	2016	60.41	124	12.16	143	3.84	167	8.7	172	0		17.02	134
Gulf Menhaden													
	1985 ^a	ND		2.00	150	0.60	159	0.68	151	0		0.79	151
	1986	3.58 ^b	125	1.96	147	0.12	180	0.03	197	0		0.92	137

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf Menhaden (cont.)													
	1987	3.46	132	4.90	135	1.37	146	0.09	159	0		1.96	136
	1988	5.02	124	10.17	57	5.99	107	0.28	122	0		4.33	87
	1989	1.47	137	1.12	144	0.56	131	0.10	177	0.03	51	0.66	139
	1990	2.03	133	3.93	136	0.62	122	0.12	162	0		1.34	134
	1991	6.99	134	1.31	144	1.15	130	0.10	148	0		1.92	135
	1992	4.37	141	14.10	116	0.78	139	0.59	145	0		3.99	123
	1993	5.55	142	0.59	129	0.12	159	0		0		1.25	141
	1994	5.86	131	2.96	132	2.63	117	0.09	116	0.19	157	2.35	129
	1995	5.02	137	4.37	137	1.22	159	0.49	163	0.25	131	2.28	140
	1996	9.17	141	1.40	136	0.56	155	1.37	146	0.06	205	2.51	142
	1997	8.83	124	4.96	107	3.06	160	1.62	150	0.28	144	3.75	128
	1998	4.83	134	1.95	130	2.25	142	1.15	123	0.06	100	2.05	134
	1999	3.74	141	0.78	141	1.06	174	0.62	154	0		1.25	148
	2000	18.03	133	5.04	122	0.84	140	0.62	153	0.09	202	4.92	132
	2001	6.11	138	9.82	115	0.87	156	0.12	147	0		3.39	126
	2002	9.42	121	10.41	130	3.65	155	0.62	172	0		4.77	132
	2003	13.60	142	2.78	130	0.59	179	0.72	168	0		3.54	142
	2004	8.30	139	1.91	140	0.53	170	0.41	181	0		2.23	142
	2005	8.20	137	5.83	131	0.31	169	1.46	175	0		3.18	139
	2006	20.18	139	1.25	134	2.92	158	4.12	133	0.19	152	5.73	140
	2007	13.01	168	6.39	125	2.78	158	0.87	164	0.25	136	4.66	154
	2008	9.14	144	1.87	155	0.81	171	0.25	181	0		2.41	148
	2009	9.29	146	3.15	135	0.90	123	0.09	152	0.25	217	2.74	143
	2010	21.96	134	9.73	116	2.09	138	0.53	144	0.62	139	6.99	130
	2011	41.35	118	22.42	123	2.46	140	2.03	148	0.33	128	13.83	121
	2012	60.07	122	10.17	131	2.56	146	0.34	157	0.06	172	14.64	125
	2013	5.61	143	7.80	138	0.87	167	1.06	174	0.34	110	3.14	143
	2014	18.99	84	8.23	120	1.06	168	0.2	164	0		5.74	98
	2015	13.32	126	25.92	127	2	130	1.9	153	0.06	140	8.64	128
	2016	7.14	129	2.99	153	0.62	165	2.81	163	0		2.71	143
King Mackerel													
	1985 ^a	ND		0.05	173	0		0.09	124	0		0.05	134
	1986	0 ^b		0.03	159	0		0		0		0.01	159
	1987	0		0		0.37	121	0.06	200	0		0.09	132
	1988	0		0		0		0		0		0	

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
King Mackerel (cont.)													
	1989	0		0		0.19	161	0.03	164	0		0.04	162
	1990	0		0.09	201	0.03	233	0		0		0.02	209
	1991	0		0.03	172	0.03	157	0.07	99	0		0.03	132
	1992	0		0.28	149	0.34	152	0.81	136	0.03	192	0.29	144
	1993	0		0		0		0.03	169	0		0.01	169
	1994	0		0		0		0.28	167	0		0.06	167
	1995	0		0.03	173	0.03	108	0.29	177	0		0.07	170
	1996	0		0		0		0.03	195	0		0.01	195
	1997	0.12	158	0.34	159	0.61	157	0.03	163	0		0.22	158
	1998	0		0		0.13	117	0		0		0.03	117
	1999	0		0.03	131	0.16	167	0		0.09	151	0.06	158
	2000	0.06	140	0		0.25	194	0.12	165	0.03	236	0.09	182
	2001	0.12	161	0		0.16	156	0.09	181	0		0.07	164
	2002	0.03	156	0		0		0.81	129	0		0.17	130
	2003	0.03	176	0		0.03	99	0.31	162	0		0.07	158
	2004	0.12	185	0.06	169	0.28	144	0.19	194	0		0.13	168
	2005	0		0.34	140	0.19	164	0.36	152	0		0.18	150
	2006	0		0.03	137	0.85	126	0.03	182	0		0.18	128
	2007	0.09	188	0		0.44	156	0.65	135	0		0.24	147
	2008	0.03	170	0.06	216	0.03	200	0.06	177	0		0.04	193
	2009	0		0.03	183	0.09	216	0.16	152	0		0.06	177
	2010	0.06	152	0.06	128	0.06	131	0.03	123	0		0.04	135
	2011	0		0.03	385	0.03	192	0.03	192	0.03	152	0.03	230
	2012	0.03	154	0		0.34	167	0.25	148	0		0.12	159
	2013	0		0.22	130	0.06	95	0.44	155	0		0.14	142
	2014	0		0		0.16	188	0.88	165	0		0.2	169
	2015	0.12	159	0.53	186	0		0.19	161	0.03	232	0.17	178
	2016	0.06	177	0.03	208	0		0.03	69	0		0.02	158
Pinfish													
	1985 ^a	ND		0.35	124	3.10	109	3.77	110	0.80	135	2.41	111
	1986	0.21 ^b	98	2.28	104	1.75	105	3.62	107	2.25	103	2.18	105
	1987	0		0.22	100	2.81	111	3.09	115	0.22	112	1.27	113
	1988	0.06	93	0.41	112	8.55	105	8.17	110	2.83	105	4.01	107
	1989	0.12	101	0.59	108	3.40	116	7.06	110	5.83	105	3.36	109
	1990	0.12	87	0.69	111	4.02	110	18.62	105	1.75	98	5.04	105

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pinfish (cont.)													
	1991	0.12	121	0.65	132	2.09	116	15.85	113	1.56	118	3.96	114
	1992	0.06	115	2.40	121	2.81	110	5.86	103	2.62	107	2.72	108
	1993	0.03	72	0.41	103	2.87	104	5.77	110	2.50	111	2.31	108
	1994	0.06	131	1.50	111	4.93	107	4.52	107	6.39	107	3.47	107
	1995	0		0.53	117	2.62	101	4.33	121	7.11	115	2.91	114
	1996	0.65	120	0.41	126	0.97	121	4.49	116	6.67	110	2.64	114
	1997	0.12	120	0.12	123	4.11	118	13.54	114	11.88	107	5.96	112
	1998	0.37	125	1.17	101	4.43	110	8.79	106	1.87	112	3.34	108
	1999	0.06	93	0.53	106	5.11	121	5.27	117	7.52	112	3.69	116
	2000	0.31	101	0.38	113	1.90	121	5.11	107	5.30	114	2.61	112
	2001	0.47	97	2.21	109	1.37	111	4.52	123	4.12	107	2.54	113
	2002	0.41	116	1.46	118	6.61	119	7.89	123	6.86	103	4.67	116
	2003	0.09	124	0.90	118	4.80	116	5.11	117	4.21	112	3.03	115
	2004	0.28	97	0.65	118	2.00	117	8.64	117	3.71	110	3.07	115
	2005	0.06	117	0.56	110	4.24	129	4.33	120	7.27	112	3.28	119
	2006	0.16	108	0.34	119	1.79	119	2.12	120	4.18	108	1.72	114
	2007	0.22	112	0.62	107	7.39	114	4.87	119	7.42	112	4.10	114
	2008	0.09	117	0.44	119	2.59	116	3.15	113	2.15	127	1.68	118
	2009	1.09	110	0.59	108	1.28	123	3.46	135	13.32	108	3.95	114
	2010	0.06	111	0.72	115	2.59	121	1.19	115	15.84	117	4.08	117
	2011	2.81	106	0.56	119	2.12	120	2.43	116	2.67	115	2.11	114
	2012	0.25	118	0.59	110	2.31	121	1.06	113	3.27	124	1.50	120
	2013	1.12	96	1.28	111	2.06	107	2.18	114	0.69	117	1.47	109
	2014	0.56	101	0.41	112	1.75	112	1.63	110	0.53	117	0.97	111
	2015	0.09	116	1.43	111	1.78	119	3.59	120	1.03	120	1.58	118
	2016	1.25	111	0.84	106	2.84	113	6.92	120	1.81	116	2.73	116
Red Drum													
	1985 ^a	ND		0		0		0		0		0	
	1986	0 ^b		0		0		0		0		0	
	1987	0		0		0.03	948	0		0.03	42	0.01	495
	1988	0		0		0		0		0		0	
	1989	0		0.03	1,110	0		0		0		0.01	1,110
	1990	0.06	61	0		0		0		0		0.01	61
	1991	0		0		0		0		0		0	
	1992	0		0		0		0		0.37	95	0.08	95

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red Drum (cont.)													
	1993	0		0.03	1,013	0		0		0		0.01	1,013
	1994	0		0		0		0		0		0	
	1995	0		0		0.03	811	0.03	1,037	0		0.01	924
	1996	0		0.03	964	0		0.03	930	0.09	124	0.03	453
	1997	0		0		0		0		0		0	
	1998	0		0		0		0		0		0	
	1999	0		0.03	1,125	0		0		0		0.01	1,125
	2000	0		0		0		0		0		0	
	2001	0		0		0		0		0		0	
	2002	0		0.03	875	0		0		0		0.01	875
	2003	0		0.03	913	0		0		0		0.01	913
	2004	0		0		0		0		0		0	
	2005	0		0		0		0		0.03	886	0.01	886
	2006	0		0.12	81	0		0		0		0.02	81
	2007	0		0.03	976	0		0.03	833	0		0.01	905
	2008	0		0		0.03	936	0		0		0.01	936
	2009	0.03	797	0		0		0		0		0.01	797
	2010	0		0		0		0.03	800	0		0.01	800
	2011	0.06	650	0		0.12	288	0		0		0.04	409
	2012	0		0		0		0		0		0	
	2013	0.06	864	0		0		0		0.09	572	0.03	689
	2014	0		0.03	1,029	0		0		0		0.01	1,029
	2015	0.03	911	0		0.06	907	0.03	917	0		0.02	910
	2016	0		0		0.06	929	0.06	887	0		0.02	908
Red Snapper													
	1985 ^a	ND		0		0		2.00	85	6.60	89	2.12	87
	1986	0 ^b		0		0.03	152	0.81	95	0.53	103	0.30	100
	1987	0		0.06	68	0.31	88	0.90	122	0.22	83	0.30	107
	1988	0		0		0		1.09	111	0.65	106	0.35	109
	1989	0		0.16	74	1.68	87	3.97	87	3.04	90	1.75	88
	1990	0		0		0.37	94	3.43	105	1.65	113	1.09	107
	1991	0		0		0		8.88	80	1.62	106	2.04	84
	1992	0		0		2.28	79	5.96	77	1.75	99	1.96	81
	1993	0		0.06	126	0.90	76	1.68	77	2.62	98	1.05	88
	1994	0		0		2.91	89	2.78	103	5.55	97	2.24	96

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red Snapper (cont.)													
	1995	0		0		4.58	70	5.63	89	7.86	89	3.60	84
	1996	0		0		0.31	95	1.90	90	0.65	101	0.57	93
	1997	0.03	64	0		2.33	80	1.65	89	1.65	99	1.13	88
	1998	0		0.03	166	0.33	84	0.28	98	1.62	95	0.46	95
	1999	0		0		1.50	71	4.82	89	3.80	94	2.00	88
	2000	0		0.54	102	1.96	77	12.63	96	0.90	89	3.22	94
	2001	0		0		0.22	67	2.78	100	2.50	100	1.10	99
	2002	0		0		0.09	81	2.34	91	8.02	91	2.11	91
	2003	0		0		0.28	78	3.40	83	12.07	82	3.15	82
	2004	0		0.06	66	3.56	85	7.27	83	21.92	102	6.61	96
	2005	0		0.12	75	0.84	73	3.25	93	3.56	104	1.54	96
	2006	0		0.03	87	13.92	72	21.61	88	4.30	104	7.97	84
	2007	0		0		0.12	118	6.49	97	4.87	108	2.30	102
	2008	0		0		0.31	95	1.12	89	3.43	111	0.97	105
	2009	0		0		6.18	82	16.56	100	8.64	105	6.27	98
	2010	0		0		0.16	104	0.44	88	11.54	91	2.43	91
	2011	0		0		0.56	114	2.43	108	7.39	112	2.03	111
	2012	0		0.03	89	0.56	94	15.91	93	9.82	102	5.26	96
	2013	0		0.03	33	1.15	90	2.43	104	5.40	100	1.80	100
	2014	0		0.69	61	1.59	75	4.62	76	4.27	102	2.21	85
	2015	0		0.34	112	2.56	94	11.04	98	3.77	113	3.54	101
	2016	0		0		1.43	97	7.86	94	1.68	99	2.20	95
Sand Seatrout													
	1985 ^a	ND		10.50	141	6.50	168	2.68	141	0.05	221	4.41	149
	1986	4.76 ^b	164	4.30	141	3.31	151	1.09	174	0		2.50	153
	1987	7.39	130	6.52	133	5.11	134	1.90	162	0.19	108	4.22	135
	1988	3.56	148	5.33	114	11.13	129	0.84	184	0.13	137	4.23	130
	1989	22.33	133	42.17	110	16.09	127	7.55	155	1.62	123	18.09	123
	1990	51.09	136	8.17	126	7.17	139	2.21	130	0.81	118	13.89	135
	1991	28.35	130	11.91	143	6.92	146	9.60	131	0.94	153	11.56	135
	1992	41.32	132	11.66	138	6.21	148	5.50	131	0.44	161	13.09	135
	1993	45.57	128	6.95	131	15.59	116	10.20	112	2.09	121	16.08	124
	1994	83.52	132	3.46	149	4.96	148	1.68	125	0.97	130	18.99	134
	1995	22.95	126	17.93	129	113.40	106	16.47	125	6.08	88	35.53	112
	1996	11.54	138	4.99	141	8.23	163	2.09	130	9.04	102	7.18	135

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand Seatrout (cont.)													
	1997	14.94	134	7.05	141	14.81	134	2.40	151	5.71	106	8.96	132
	1998	25.51	124	16.56	136	5.43	160	4.46	164	2.46	115	10.89	134
	1999	29.60	129	15.84	137	8.79	188	2.28	163	0.84	132	11.55	142
	2000	19.37	131	22.87	122	8.79	132	2.84	158	2.99	121	11.34	128
	2001	35.87	132	31.90	120	11.57	134	10.63	150	0.90	153	18.18	131
	2002	25.79	105	12.33	133	9.82	170	16.00	144	9.92	114	14.79	128
	2003	17.40	112	7.52	121	6.18	181	15.44	143	3.56	124	10.02	132
	2004	14.69	121	17.28	136	20.40	134	24.76	140	0.84	134	15.58	134
	2005	11.79	128	6.05	147	8.76	164	38.79	142	0.03	215	12.87	143
	2006	20.46	139	11.85	115	5.36	191	1.53	171	0		7.84	140
	2007	19.21	125	28.29	123	14.44	172	17.18	163	0		15.82	141
	2008	29.00	127	24.67	133	17.96	169	25.73	156	0		19.47	144
	2009	31.25	129	18.43	126	2.62	161	4.99	155	0.09	71	11.48	132
	2010	13.60	160	12.57	140	13.13	159	46.56	150	0		17.17	152
	2011	19.62	132	23.73	161	9.92	171	52.11	134	0.42	98	21.34	143
	2012	14.25	130	11.26	135	5.30	187	12.94	147	0.09	142	8.77	143
	2013	20.99	132	12.66	146	6.55	151	28.60	154	0.12	142	13.78	145
	2014	11.54	128	18	133	5.89	151	65.97	135	1.75	76	20.25	134
	2015	20.58	121	48.37	138	14.75	153	80.43	145	0.41	139	32.91	141
	2016	20.08	138	34.31	134	37.74	143	103.57	139	3.15	142	39.77	139
Southern Flounder													
	1985 ^a	ND		0		0.05	280	0.07	137	0		0.04	173
	1986	0.75 ^b	162	0.03	255	0.09	184	0.03	311	0		0.13	178
	1987	0.06	226	0.09	197	0		0.16	179	0.03	168	0.07	191
	1988	0.03	204	0		0.09	214	0.03	225	0		0.03	214
	1989	0		0		0.06	210	0.03	298	0		0.02	239
	1990	0.09	187	0		0.09	212	0.06	164	0.03	250	0.06	197
	1991	0.06	286	0.06	260	0.06	195	0.16	188	0		0.07	220
	1992	0.03	143	0.03	240	0		0.03	284	0.03	418	0.03	271
	1993	0.03	124	0		0		0.03	279	0		0.01	202
	1994	0.03	171	0.06	180	0.03	215	0		0.03	286	0.03	206
	1995	0		0		0.03	262	0		0		0.01	262
	1996	0.06	196	0		0.03	437	0		0		0.02	276
	1997	0.03	275	0		0		0		0		0.01	275
	1998	0.16	204	0.36	139	0		0.03	265	0.03	279	0.11	172

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern Flounder (cont.)													
	1999	0.06	296	0.03	306	0		0.07	304	0		0.03	301
	2000	0		0.03	302	0.03	458	0		0		0.01	380
	2001	0		0		0		0		0.12	150	0.02	150
	2002	0.03	107	0.03	282	0		0.03	300	0		0.02	230
	2003	0.25	170	0.03	276	0		0.03	307	0		0.06	194
	2004	0.03	215	0		0		0.03	283	0		0.01	249
	2005	0.03	300	0		0.03	254	0.03	460	0		0.02	338
	2006	0		0.03		0.09	321	0.03	256	0		0.03	305
	2007	0		0.03	299	0.03	231	0		0.03	312	0.02	281
	2008	0		0		0		0		0		0	
	2009	0		0.03	312	0		0		0		0.01	312
	2010	0.03	247	0		0		0.03	253	0		0.01	250
	2011	0		0.03	335	0.06	240	0.03	274	0.03	178	0.03	253
	2012	0.03	257	0		0.06	255	0.03	352	0		0.02	280
	2013	0.09	349	0.03	224	0.03	265	0		0		0.03	307
	2014	0.03	156	0.03	262	0.03	252	0		0.03	139	0.03	202
	2015	0		0		0.09	247	0		0		0.02	247
	2016	0.06	320	0		0.03	256	0.03	258	0		0.02	288
Spanish Mackerel													
	1985 ^a	ND		0		0		0		0		0	
	1986	0.05 ^b	200	0		0		0		0		0.01	200
	1987	0.03	93	0.09	183	0		0.09	258	0		0.04	202
	1988	0.06	167	0.09	178	0.44	182	0.03	110	0.13	200	0.15	180
	1989	0.12	206	0.12	172	0.19	175	0.03	175	0		0.09	182
	1990	0.19	174	0.87	176	0.09	225	0.06	192	0		0.24	180
	1991	0.56	184	0.69	163	0.12	145	0.07	135	0		0.29	169
	1992	0.25	158	0.06	175	0.22	181	0.36	164	0		0.18	167
	1993	0.62	167	0.09	188	0		0.31	237	0		0.21	190
	1994	0		0.03	250	0.19	170	0.12	170	0		0.07	177
	1995	0.25	194	0.41	186	0.16	135	0.23	242	0		0.21	192
	1996	0.06	289	0.03	460	0		0		0		0.02	346
	1997	0.31	154	0.03	135	0.03	205	0.03	190	0		0.08	159
	1998	0.34	179	0		0		0		0		0.07	179
	1999	0.06	220	0.06	57	0.06	181	0		0.03	322	0.04	177
	2000	0.03	141	0.03	150	0		0		0		0.01	146

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spanish Mackerel (cont.)													
	2001	0.25	154	0.25	136	0.03	151	0.12	208	0		0.13	157
	2002	0		0.03	205	0.22	144	0.06	178	0		0.06	157
	2003	0.03	161	0.09	187	0.06	204	0.12	229	0		0.06	204
	2004	0.22	156	0.10	188	0		0.25	210	0		0.11	185
	2005	0.59	175	0.37	127	0.12	163	0.42	167	0		0.30	160
	2006	0		0		0		0		0		0	
	2007	0.28	198	0		0.06	318	0		0.03	207	0.07	219
	2008	0.75	183	0.06	182	0		0.25	82	0		0.21	159
	2009	0.12	159	0.06	159	0.44	202	0.16	252	0		0.16	202
	2010	0.19	222	0.19	169	0.06	198	0.16	210	0.09	242	0.14	205
	2011	0.03	291	0.09	204	0.03	161	0		0		0.03	213
	2012	0		0		0		0		0		0	
	2013	0.53	178	0.03	110	0.09	227	0.59	149	0		0.25	166
	2014	0		0		0		0.03	187	0		0.01	187
	2015	0.06	201	0.12	182	0		0.09	318	0		0.06	232
	2016	0.06	181	0.06	141	0.03	167	0.09	276	0		0.05	205
Spot													
	1985 ^a	ND		2.80	132	20.35	130	21.39	141	0.80	142	13.65	138
	1986	2.83 ^b	124	8.64	128	7.20	124	25.70	123	1.78	125	9.81	124
	1987	5.21	140	8.83	126	4.46	125	22.08	129	0.03	170	8.12	129
	1988	3.77	115	7.14	116	23.55	128	23.20	122	3.48	110	12.30	123
	1989	5.86	120	27.38	108	17.93	124	49.01	121	4.34	121	20.72	118
	1990	9.54	123	25.29	121	103.57	126	95.06	117	3.90	112	47.47	121
	1991	18.43	117	4.62	125	68.46	122	33.03	127	1.22	129	25.08	123
	1992	5.02	127	11.88	126	6.74	122	10.15	126	1.56	117	7.04	125
	1993	4.46	121	14.07	119	3.71	126	19.27	125	3.99	138	9.10	124
	1994	13.47	125	4.21	131	13.58	125	3.84	131	3.99	129	7.79	127
	1995	6.80	115	3.37	135	30.03	132	6.80	150	4.18	125	10.27	132
	1996	8.79	116	3.71	130	18.24	137	13.04	124	5.24	120	9.81	128
	1997	3.74	139	8.05	134	11.69	140	32.65	125	21.43	124	15.53	128
	1998	10.85	120	15.20	116	4.98	125	44.22	119	3.68	121	15.88	119
	1999	6.67	119	7.39	116	6.18	127	5.63	131	1.34	141	5.44	124
	2000	7.39	121	3.90	128	5.30	131	4.74	149	0.41	139	4.35	131
	2001	9.36	121	51.99	117	21.83	124	47.31	114	8.73	124	27.84	118
	2002	10.54	113	21.77	131	19.40	128	13.54	133	2.90	152	13.56	129

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spot (cont.)													
	2003	13.16	113	8.58	122	9.36	136	13.35	141	2.99	132	9.49	128
	2004	5.40	121	9.81	130	10.32	140	12.01	143	2.78	158	8.05	137
	2005	3.59	126	8.95	117	8.11	127	9.27	132	6.58	120	7.28	124
	2006	2.71	133	3.46	141	3.10	148	3.62	135	2.46	147	3.07	141
	2007	5.52	113	11.98	122	18.65	122	14.28	122	11.32	132	12.35	123
	2008	11.82	115	8.58	118	8.39	139	10.92	143	1.87	161	8.31	130
	2009	3.99	121	9.26	125	1.59	137	2.99	164	0.65	156	3.70	133
	2010	23.95	118	22.21	122	19.93	129	6.49	118	10.07	127	16.53	123
	2011	19.87	122	22.39	127	23.27	139	9.7	136	4.13	145	15.97	131
	2012	10.45	128	28.72	130	30.25	126	2.84	132	2.99	146	15.05	129
	2013	13.44	132	33.71	133	11.85	142	13.82	138	0.22	138	14.61	135
	2014	41.23	109	38.05	113	10.07	135	3.58	158	1.09	140	18.93	116
	2015	20.21	125	26.51	127	23.33	145	13.41	150	1.68	134	17.03	135
	2016	15.28	98	43.57	105	13.97	138	21.15	141	3.12	138	19.42	118
Spotted Seatrout													
	1985 ^a	ND		0		0		0.02	140	0		0.01	140
	1986	0.11 ^b	163	0.03	172	0.03	165	0		0		0.03	166
	1987	0.03	178	0		0		0		0		0.01	178
	1988	0		0.03	65	0.03	110	0		0		0.01	88
	1989	0.03	98	0		0.03	173	0		0		0.01	136
	1990	0.06	111	0.03	160	0.03	122	0.06	145	0		0.04	132
	1991	0		0		0.03	148	0		0		0.01	148
	1992	0.06	112	0		0		0		0		0.01	112
	1993	0		0		0.03	160	0		0		0.01	160
	1994	0.03	187	0.28	54	0		0		0		0.06	68
	1995	0.03	276	0		0		0		0		0.01	276
	1996	0.12	139	0		0		0		0		0.02	139
	1997	0.03	280	0		0		0.12	144	0.06	214	0.04	183
	1998	0		0		0		0		0		0	
	1999	0		0.03	316	0		0		0		0.01	316
	2000	0		0		0		0		0		0	
	2001	0		0		0.03	66	0		0		0.01	66
	2002	0.06	158	0		0		0		0		0.01	158
	2003	0		0		0		0		0		0	
	2004	0		0		0		0		0		0	

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spotted Seatrout (cont.)													
	2005	0.16	137	0		0		0		0		0.03	137
	2006	0		0		0		0		0		0	
	2007	0		0		0		0		0		0	
	2008	0		0		0		0		0		0	
	2009	0		0		0		0.03	109	0		0.01	109
	2010	0.28	128	0		0.06	123	0		0		0.07	127
	2011	0.03	146	0		0		0		0		0.01	146
	2012	0		0		0		0		0.03	187	0.01	187
	2013	0		0		0		0		0		0	
	2014	0.09	140	0		0		0		0		0.02	140
	2015	0.06	152	0		0		0		0		0.01	152
	2016	0		0		0		0		0.03	196	0.01	196
Total finfish													
	1985 ^a	ND		148	119	188	118	227	114	130	101	186	114
	1986	161 ^b	122	211	118	219	123	297	119	73	110	195	119
	1987	161	98	294	111	233	118	230	114	82	96	200	110
	1988	156	120	278	104	386	114	286	106	53	103	233	110
	1989	181	114	307	111	355	118	361	113	107	108	262	114
	1990	486	121	361	113	472	138	344	115	81	102	349	122
	1991	434	117	272	129	676	115	442	108	126	102	390	115
	1992	527	115	508	116	533	111	338	103	130	96	408	111
	1993	645	116	330	116	383	102	388	104	138	106	377	110
	1994	415	121	257	121	570	110	455	99	154	105	369	111
	1995	235	119	168	109	916	98	402	109	177	97	379	104
	1996	629	116	284	115	438	108	388	100	200	98	388	109
	1997	481	114	257	111	696	124	331	113	257	108	403	116
	1998	499	113	264	114	357	113	458	106	171	100	351	110
	1999	358	118	222	110	285	122	301	110	134	96	260	114
	2000	328	119	330	118	216	117	228	109	195	93	259	113
	2001	454	123	636	115	554	125	341	112	323	107	462	118
	2002	365	108	304	118	428	120	509	104	336	101	389	110
	2003	385	110	279	114	492	113	301	110	332	99	358	109
	2004	376	105	302	111	368	118	387	116	302	95	347	110
	2005	518	109	738	104	517	118	494	111	403	96	534	108
	2006	540	125	299	108	620	111	436	104	221	103	423	112

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfish (cont.)													
	2007	1,057	115	1,102	117	967	131	566	119	163	122	771	120
	2008	1,626	122	1,190	119	601	127	367	114	97	112	776	121
	2009	655	131	738	129	314	112	233	111	193	101	427	123
	2010	1,014	120	1,067	121	660	121	668	117	423	108	766	119
	2011	1,038	123	1,290	124	424	134	345	119	186	114	660	124
	2012	1,053	116	542	121	449	126	210	118	195	109	490	118
	2013	790	116	838	119	282	115	885	116	118	98	583	116
	2014	561	114	601	115	431	120	300	120	111	97	402	116
	2015	686	123	1,012	128	598	126	626	122	87	102	602	125
	2016	651	115	795	120	915	122	1273	127	122	115	751	122
SHELLFISHES													
Blue crab													
	1985 ^a	ND		0.45	105	0.80	134	0.73	127	0.30	144	0.61	127
	1986	4.54 ^b	96	6.24	105	1.15	141	1.15	145	0.65	123	2.59	111
	1987	3.24	96	0.84	112	1.65	105	0.53	142	0.31	141	1.32	106
	1988	2.00	85	0.31	104	0.97	113	1.15	128	0.07	161	0.91	105
	1989	3.71	61	2.50	72	0.75	130	0.26	134	0.29	146	1.51	77
	1990	14.91	80	4.21	63	1.12	118	1.34	126	1.12	127	4.54	84
	1991	18.87	72	6.30	58	0.97	102	1.82	112	0.22	121	5.67	73
	1992	6.77	58	0.78	104	0.37	84	0.68	95	0.41	123	1.81	69
	1993	4.77	78	0.65	83	1.78	116	1.31	130	0.59	102	1.82	95
	1994	9.20	77	1.93	122	0.86	115	1.90	66	0.90	128	2.97	87
	1995	7.95	65	1.06	61	0.22	120	0.55	122	0.28	122	2.03	70
	1996	5.43	58	0.50	59	0.12	115	0.31	120	0.78	107	1.43	67
	1997	15.16	67	3.03	65	0.51	83	0.56	107	0.97	124	4.06	71
	1998	4.18	65	0.65	52	0.46	82	0.37	140	0.09	112	1.16	71
	1999	1.72	68	1.37	63	0.41	115	0.85	103	0.31	140	0.93	82
	2000	2.90	64	0.95	50	0.03	50	0.41	68	0.03	158	0.86	62
	2001	2.96	63	1.68	74	0.06	105	0.37	121	0.37	136	1.09	76
	2002	7.36	52	1.40	62	0.53	73	0.22	108	0.47	96	2.00	58
	2003	2.09	50	0.75	74	0.34	134	0.53	117	0.69	130	0.88	81
	2004	3.18	37	1.39	68	0.25	145	0.69	66	0.12	102	1.12	54
	2005	3.59	38	0.84	130	0.12	133	0.23	94	0.06	158	0.97	60
	2006	1.43	101	0.62	117	0.28	112	0.25	90	0.12	127	0.54	106

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Blue crab (cont.)													
	2007	1.06	102	0.37	119	0.19	142	0.50	126	0.16	133	0.46	115
	2008	3.40	79	1.47	97	0.87	147	0.87	139	0.50	100	1.42	100
	2009	1.15	117	0.90	128	0.16	144	0.22	135	0.22	150	0.53	126
	2010	0.78	64	0.22	108	0.16	98	1.43	65	0.41	98	0.60	74
	2011	1.28	70	0.44	75	0.47	149	0.09	131	0.85	116	0.62	97
	2012	1.43	60	0.65	72	0.34	104	0.03	56	0.19	101	0.53	71
	2013	0.62	58	0.25	92	0.12	34	0.06	78	0.03	150	0.22	69
	2014	1.15	64	0.47	84	0.09	54	0.1	114	0.09	65	0.38	71
	2015	1.47	63	0.72	129	0.37	113	0.12	142	0.12	122	0.56	93
	2016	1.34	81	2.03	60	1.5	142	0.41	146	0.09	154	1.07	97
Brown shrimp													
	1985 ^a	ND		7	103	7	125	47	109	18	106	26	109
	1986	10 ^b	107	14	99	6	114	10	105	6	110	9	105
	1987	7	104	24	104	9	108	15	106	1	118	11	106
	1988	15	102	5	109	25	103	28	106	0.59	116	15	105
	1989	34	103	51	96	57	105	143	95	12	94	59	98
	1990	34	101	10	108	56	108	60	114	21	106	36	108
	1991	12	90	2	102	12	93	9	101	18	123	11	104
	1992	10	91	20	103	4	96	20	92	2	115	11	97
	1993	23	100	21	97	13	105	9	97	4	109	14	100
	1994	6	100	11	101	5	99	17	94	7	106	9	99
	1995	50	102	5	97	50	101	32	94	2	112	28	100
	1996	11	92	3	103	3	104	4	105	2	107	5	98
	1997	23	94	5	100	7	100	9	104	8	108	10	99
	1998	37	93	16	91	12	96	15	108	18	111	20	99
	1999	32	100	8	98	22	91	7	101	6	113	15	98
	2000	39	91	19	100	37	100	11	93	16	104	25	97
	2001	11	102	26	99	20	108	30	94	8	109	19	100
	2002	17	91	21	96	10	85	22	114	3	101	15	99
	2003	17	98	21	90	47	99	42	100	10	112	27	99
	2004	19	88	18	92	14	101	18	113	5	99	15	98
	2005	9	86	14	94	10	96	6	93	4	117	8	95
	2006	36	87	49	97	18	100	15	91	6	100	25	94
	2007	56	87	37	95	27	97	17	104	1	122	27	93
	2008	39	83	14	88	6	93	8	99	2	120	14	88

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Brown shrimp (cont.)													
	2009	21	87	22	90	9	97	12	108	2	105	13	94
	2010	26	78	5	93	8	90	17	101	7	111	13	90
	2011	79	87	25	89	5	98	7	117	10	125	25	92
	2012	27	89	12	95	7	94	4	105	2	120	10	93
	2013	28	91	23	100	18	104	12	109	3	110	17	99
	2014	15	88	7	99	6	103	6	99	1	104	7	95
	2015	58	96	36	91	12	96	47	96	0.90	109	31	95
	2016	7	84	3	83	14	86	8	92	1	120	7	88
Pink shrimp													
	1985 ^a	ND		0.05	120	0.30	130	1.48	119	1.10	108	0.90	117
	1986	0 ^b		0.12	124	1.59	110	3.77	105	3.56	118	1.97	111
	1987	0		0		0.94	114	4.87	103	1.25	124	1.41	108
	1988	0.06	87	0		1.25	108	7.17	103	0.85	125	1.87	106
	1989	0		0.09	105	0.94	103	7.35	100	3.61	117	2.35	106
	1990	0		0.12	104	1.19	101	2.12	119	3.49	117	1.38	114
	1991	0.03	101	0.31	99	1.34	109	5.66	112	1.75	118	1.79	112
	1992	0.12	88	0.06	79	0.44	114	4.56	102	0.41	122	1.09	104
	1993	0		0.12	104	4.12	99	4.83	104	9.51	112	3.72	107
	1994	0.12	90	0.06	116	0.64	109	9.67	98	8.02	116	3.72	106
	1995	0.03	78	0		6.58	102	5.86	109	2.71	112	3.01	106
	1996	0.03	94	0		1.28	112	1.40	109	4.71	116	1.48	114
	1997	0		0.31	93	2.77	103	3.93	111	4.43	118	2.29	111
	1998	0.09	100	0.20	111	0.88	106	2.84	102	4.74	113	1.77	108
	1999	0		0		2.46	103	5.50	110	4.49	108	2.47	108
	2000	0.03	104	0		2.46	103	5.40	97	9.14	109	3.42	104
	2001	0		0.37	100	1.72	110	4.52	103	5.18	109	2.36	107
	2002	0		0.20	89	0.31	104	1.37	96	12.72	108	2.94	106
	2003	0		0.03	ND	1.75	105	3.68	100	5.86	116	2.26	109
	2004	0		0.16	96	1.06	106	2.15	101	4.58	99	1.60	101
	2005	0		0.31	113	1.15	102	2.05	94	6.64	111	2.03	106
	2006	0.06	112	0.09	113	1.29	98	2.59	100	5.46	116	1.90	109
	2007	0		0		0.25	121	1.84	104	5.49	121	1.52	117
	2008	0		0.12	59	0.84	102	2.31	103	5.02	124	1.66	115
	2009	0		0		0.69	110	1.96	92	2.12	125	0.95	109
	2010	0		0		1.34	105	2.78	99	10.73	124	2.97	118

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pink shrimp (cont.)													
	2011	0.12	87	0.03	122	1.72	117	0.41	92	9.44	131	2.28	127
	2012	0.12	67	0.12	90	0.65	103	0.69	106	2.12	123	0.74	114
	2013	0		0		0.65	108	1.31	105	3.87	128	1.17	120
	2014	0		0		0.5	108	0.94	106	1.65	131	0.62	120
	2015	0		0		0.31	105	4.93	93	4.62	112	1.97	102
	2016	0		0		0.5	109	1	91	6.92	127	1.68	121
White shrimp													
	1985 ^a	ND		53	110	26	124	11	126	0.70	105	20	117
	1986	42 ^b	101	54	101	16	120	8	124	2	137	23	106
	1987	27	105	14	109	16	112	8	119	0.97	121	13	110
	1988	14	105	18	100	19	110	9	116	0.29	133	12	107
	1989	22	102	25	107	23	108	14	113	1	122	17	107
	1990	18	104	11	115	15	118	6	136	2	136	10	115
	1991	28	105	10	117	31	106	6	125	0.62	122	15	109
	1992	52	98	31	108	11	112	10	118	0.56	145	21	105
	1993	62	101	10	108	11	121	5	134	0.62	133	18	106
	1994	17	109	8	109	15	114	10	116	0.81	128	10	112
	1995	10	110	21	113	14	117	12	125	3	134	12	117
	1996	50	96	22	105	18	118	9	125	5	116	21	105
	1997	61	100	18	104	14	118	9	124	1	122	21	105
	1998	23	110	14	113	13	119	18	125	6	131	15	118
	1999	45	101	47	100	12	130	11	129	3	144	24	107
	2000	43	105	33	102	23	111	11	122	3	131	23	107
	2001	18	95	14	113	15	113	13	110	0.65	140	12	107
	2002	41	96	50	105	14	115	16	118	1	120	24	105
	2003	67	103	16	111	35	117	12	130	1	142	26	111
	2004	48	97	22	116	29	119	26	127	1	132	25	112
	2005	128	94	73	109	29	127	20	116	3	130	51	104
	2006	63	110	62	123	36	126	16	136	2	128	36	120
	2007	43	112	45	117	22	137	16	126	2	133	26	120
	2008	158	102	47	113	54	124	30	138	1	134	58	112
	2009	129	104	114	110	16	123	7	131	0.50	144	53	108
	2010	75	99	58	108	26	132	14	131	2	138	35	110
	2011	48	104	40	111	34	132	14	145	1	145	28	118
	2012	38	113	28	124	37	117	4	139	0.09	126	21	119

TABLE 5.—(Cont.)

Species	Year	<u>Sabine</u>		<u>Galveston</u>		<u>Port O'Connor</u>		<u>Port Aransas</u>		<u>Port Isabel</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
White shrimp (cont.)													
	2013	69	105	45	123	21	127	19	130	2	122	31	116
	2014	33	106	26	121	15	137	13	143	0.19	163	17	121
	2015	34	111	99	106	22	120	38	130	1	103	39	113
	2016	55	107	83	115	52	130	18	144	0.31	148	42	119

^aValues include Feb-Dec only off Port Aransas and Aug-Dec only off all other areas. ^bValues include Jun-Dec only.

TABLE 6.—Annual mean catch rates (No./h) and mean total lengths (mm) by size class^a of Eastern oyster caught with 46.0-cm wide dredges on reef stations in Texas bay systems during 1984-2016. Blank indicates no measurement taken; ND = no data.

Size class	Year	Galveston		Matagorda		San Antonio		Aransas		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spat	1984	491		ND		ND		ND		491	
	1985	891		ND		ND		ND		891	
	1986	1,010		764		499		551		770	
	1987	1,054		654		66		4,269		1,382	
	1988	1,440		938		439		1,772		1,202	
	1989	1,322		2,019		1,864		3,071		1,880	
	1990	2,147		1,289		1,117		1,611		1,685	
	1991	1,458		718		894		410		1,022	
	1992	3,083		454		268		82		1,487	
	1993	3,194		139		122		0		1,440	
	1994	1,263		329		546		719		860	
	1995	718		1,311		1,493		1,836		1,194	
	1996	7,458		1,497		4,521		1,251		4,740	
	1997	940		816		756		654		830	
	1998	2,147		943		957		1,152		1,625	
	1999	1,947		1,638		3,338		3,269		2,377	
	2000	11,922		822		3,217		4,450		6,899	
	2001	1,491		710		726		1,922		1,285	
	2002	749		1,471		1,569		9,830		2,770	
	2003	736		965		783		5,403		1,668	
2004	725		1,338		963		1,403		998		
2005	749		1,380		1,028		397		838		
2006	1,429		774		2,869		1,641		1,703		
2007	645		146		613		1,007		634		
2008	472		873		5,146		26,150		6,484		
2009	1,508		2,009		4,555		10,167		3,925		

TABLE 6.—(Cont.)

Size Class	Year	<u>Galveston</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spat (cont.)											
	2010	1,184		1,249		2,246		1,587		1,513	
	2011	1,207		821		9,453		8,058		4,338	
	2012	514		1,439		7,523		20,087		5,974	
	2013	646		2,050		6,409		27,430		7,264	
	2014	445		2,919		12,350		64,808		15,772	
	2015	607		1,669		2,227		19,023		4,636	
	2016	488		1,306		1,765		2,770		1,333	
Small	1984	1,705	47	ND		ND		ND		1,705	47
	1985	2,096	54	ND		ND		ND		2,095	54
	1986	1,316	54	382	51	565	58	1,273	51	1,001	54
	1987	1,070	51	555	51	240	55	2,499	50	1,077	51
	1988	1,500	53	580	52	235	42	2,187	52	1,208	52
	1989	1,086	47	706	48	1,985	50	2,278	49	1,463	48
	1990	2,996	45	417	48	1,401	53	1,495	45	1,971	46
	1991	4,927	48	1,040	51	538	54	1,016	48	2,615	49
	1992	4,601	51	622	52	92	48	263	54	2,168	51
	1993	3,895	54	396	54	500	51	296	59	1,926	54
	1994	3,002	52	805	48	573	47	1,010	46	1,749	50
	1995	2,656	53	1,193	49	987	52	4,192	52	2,354	52
	1996	3,023	47	1,748	50	1,740	47	3,912	52	2,714	49
	1997	5,846	50	1,517	51	689	51	3,160	57	3,468	51
	1998	3,088	58	1,447	51	1,820	49	2,650	59	2,586	56
	1999	2,893	56	1,784	49	2,009	44	3,213	57	2,645	54
	2000	2,720	56	1,778	52	2,572	51	4,049	55	2,802	54
	2001	881	54	893	49	1,050	51	4,554	56	1,620	53
	2002	2,123	52	1,006	47	645	50	6,227	55	2,404	52

TABLE 6.—(Cont.)

Size Class	Year	<u>Galveston</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Small (cont.)											
	2003	1,332	56	1,712	49	1,054	48	6,257	54	2,261	53
	2004	862	51	927	51	1,042	56	3,144	57	1,347	53
	2005	735	51	2,301	46	1,054	51	1,936	61	1,269	52
	2006	1,005	50	1,672	54	1,317	55	1,094	60	1,190	54
	2007	767	52	616	54	551	55	1,401	56	816	54
	2008	596	49	2,770	46	1,986	46	1,651	52	1,430	48
	2009	677	49	3,810	51	2,741	53	4,139	48	2,263	51
	2010	1,036	50	1,898	51	1,818	54	3,664	54	1,840	52
	2011	781	44	1,752	49	1,386	56	4,036	59	1,680	53
	2012	722	52	1,289	52	2,066	53	5,661	55	2,051	53
	2013	394	48	698	55	746	51	2,987	55	1,012	53
	2014	392	44	691	50	628	46	2,576	51	905	48
	2015	567	42	875	51	218	42	2,738	47	945	46
	2016	985	45	1,825	49	926	44	3,900	52	1,648	48
Market											
	1984	447	91	ND	ND	ND		ND		447	91
	1985	674	88	ND	ND	ND		ND		674	88
	1986	617	88	212	92	444	92	191	86	438	89
	1987	370	91	167	91	258	93	411	86	323	90
	1988	397	89	201	91	23	89	402	87	284	88
	1989	232	90	177	90	414	90	282	85	275	89
	1990	179	88	114	89	445	88	99	83	215	88
	1991	502	87	216	89	377	91	65	84	349	88
	1992	796	87	164	88	24	93	40	83	384	87
	1993	1,346	88	204	92	74	87	161	87	652	87
	1994	1,214	90	313	95	287	93	355	93	691	91
	1995	760	89	433	92	415	93	1,056	92	673	91

TABLE 6.—(Cont.)

Size Class	Year	<u>Galveston</u>		<u>Matagorda</u>		<u>San Antonio</u>		<u>Aransas</u>		<u>Coastwide</u>	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Market (cont.)											
	1996	683	89	698	90	604	94	1,442	91	803	88
	1997	837	89	562	91	167	94	1,244	88	729	89
	1998	1,053	86	346	92	230	87	1,734	88	928	87
	1999	1,132	88	487	90	235	88	1,793	87	997	88
	2000	1,319	90	592	92	594	91	2,325	90	1,239	90
	2001	493	92	286	91	430	93	2,114	91	757	92
	2002	567	91	185	90	249	93	2,454	90	798	91
	2003	548	90	338	88	139	91	2,333	88	764	89
	2004	376	91	402	89	364	89	1,799	90	648	90
	2005	256	92	208	91	243	92	1,954	90	572	91
	2006	282	92	717	90	491	88	1,452	91	616	91
	2007	328	91	390	90	265	89	1,139	92	477	91
	2008	224	93	171	90	92	87	875	88	310	90
	2009	228	93	727	86	441	85	507	87	402	88
	2010	313	92	719	90	521	88	756	84	504	89
	2011	236	94	540	91	763	89	1,375	85	617	89
	2012	221	97	455	90	742	90	2,491	85	806	90
	2013	272	97	327	91	343	89	2,251	87	672	90
	2014	157	95	225	90	239	95	1,084	87	362	91
	2015	118	99	185	91	75	93	818	88	251	92
	2016	199	94	363	90	111	86	538	87	267	90

^a Spat (5-25 mm), small (26-75 mm), market (≥ 76 mm). Mean total length not calculated for spat.

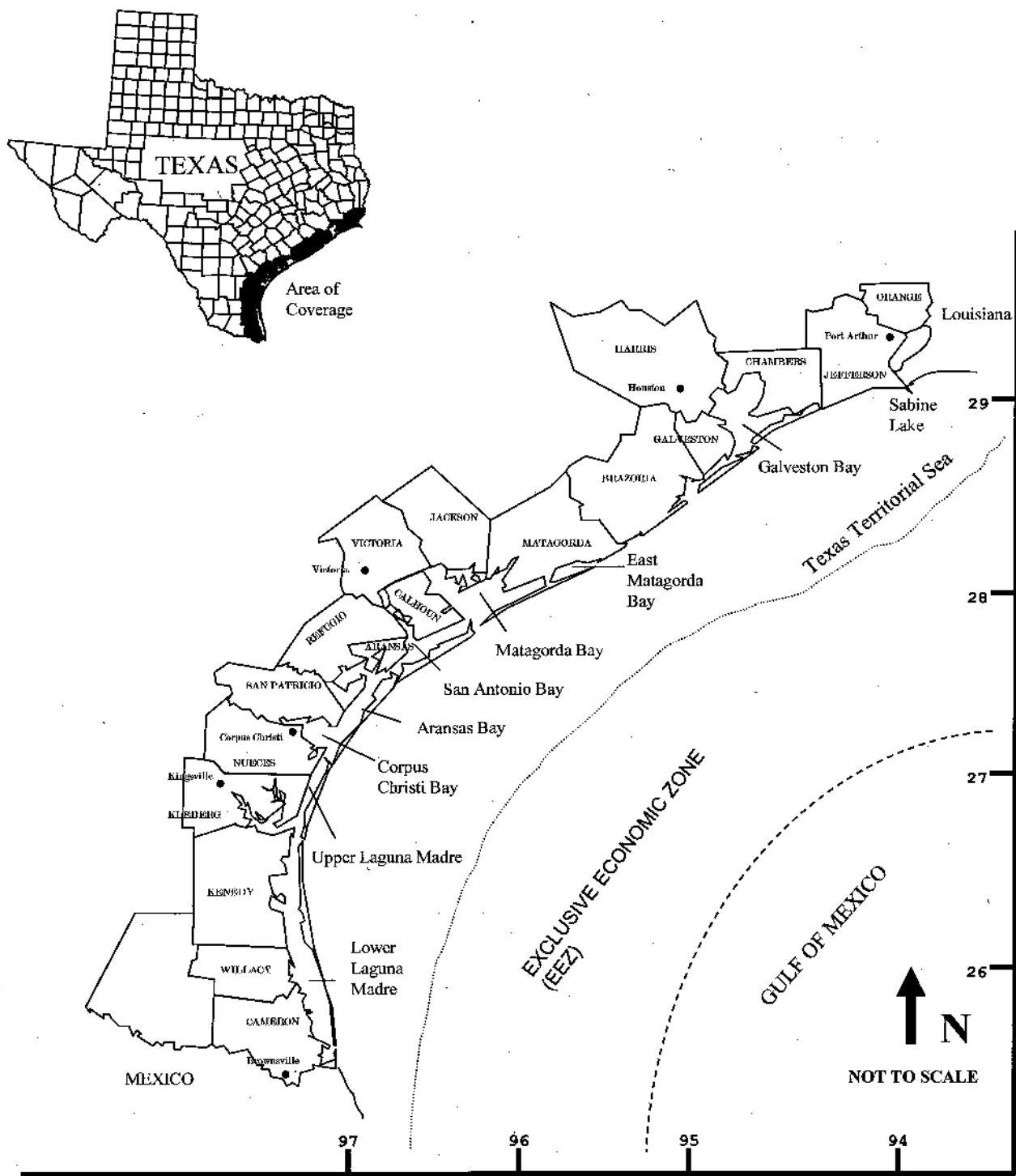


FIGURE 1.— Texas Gulf shoreline and Texas Territorial Sea (TTS).

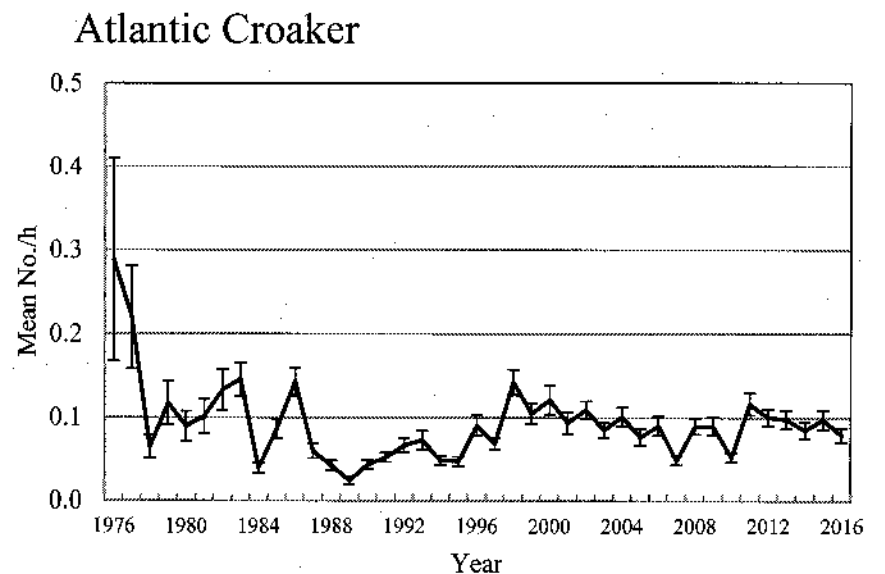
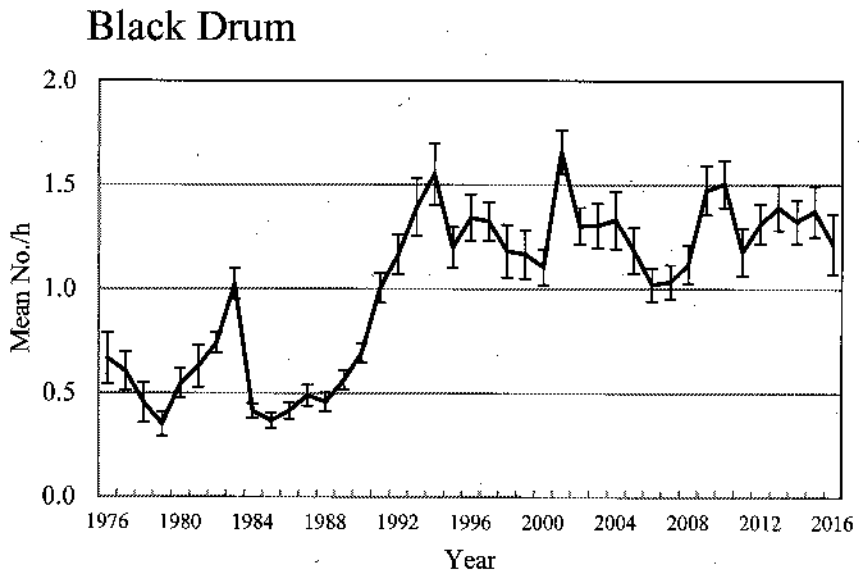
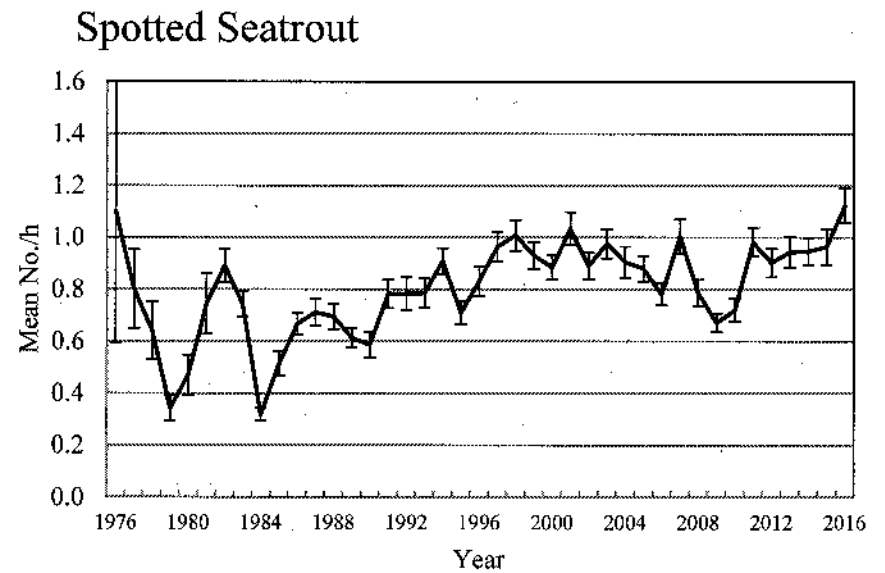
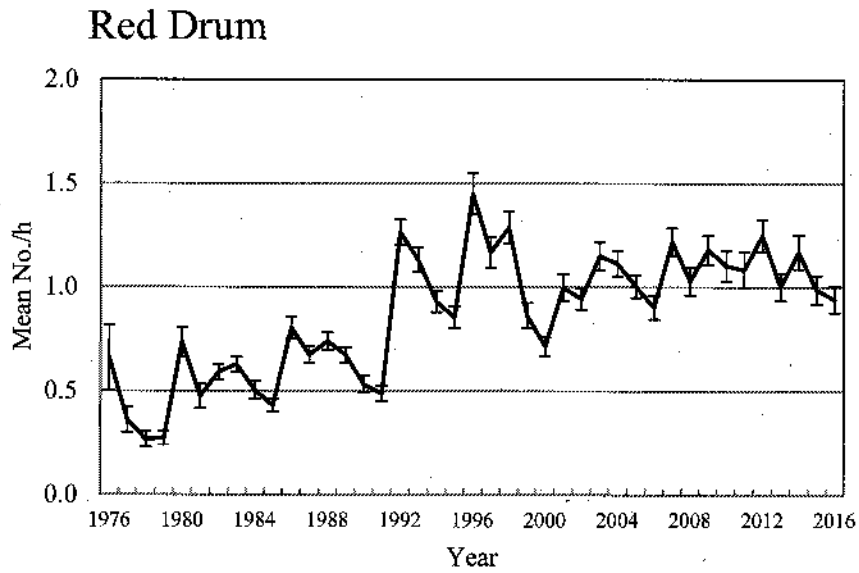
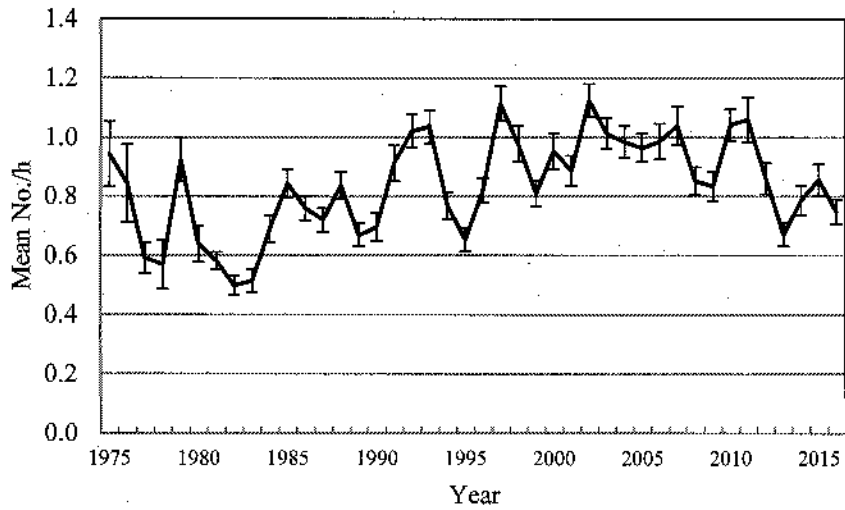
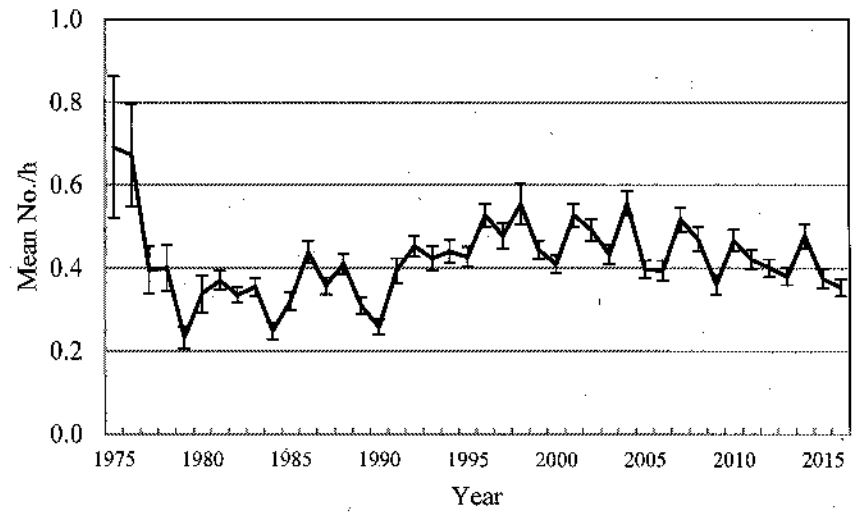


FIGURE 2.—Spring gill net mean catch rate (No./h \pm 1 SE) for Red Drum, Black Drum, Spotted Seatrout, and Atlantic Croaker from 1976 to 2016.

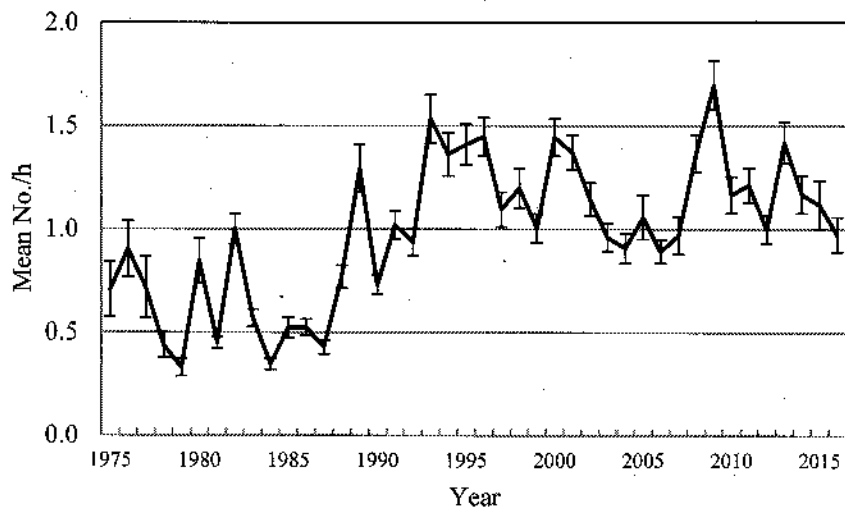
Red Drum



Spotted Seatrout



Black Drum



Atlantic Croaker

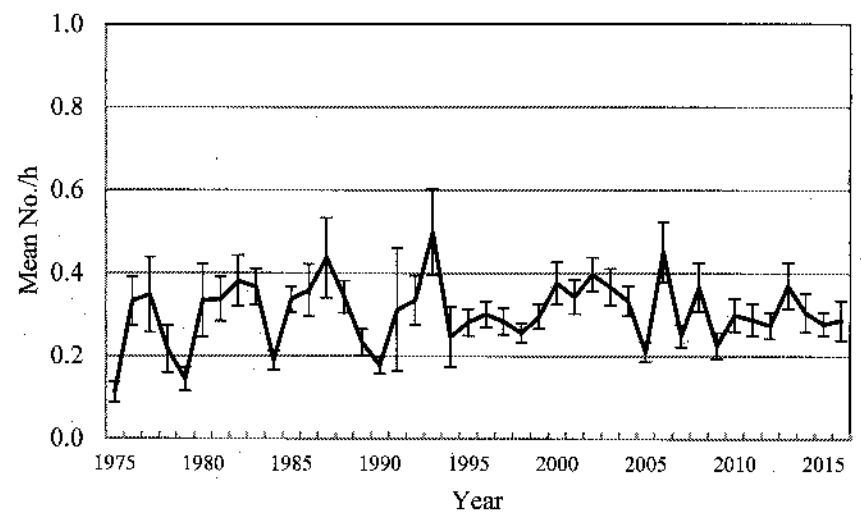


FIGURE 3.—Fall gill net mean catch rate (No./h \pm 1 SE) for Red Drum, Black Drum, Spotted Seatrout, and Atlantic Croaker from 1975 to 2016.

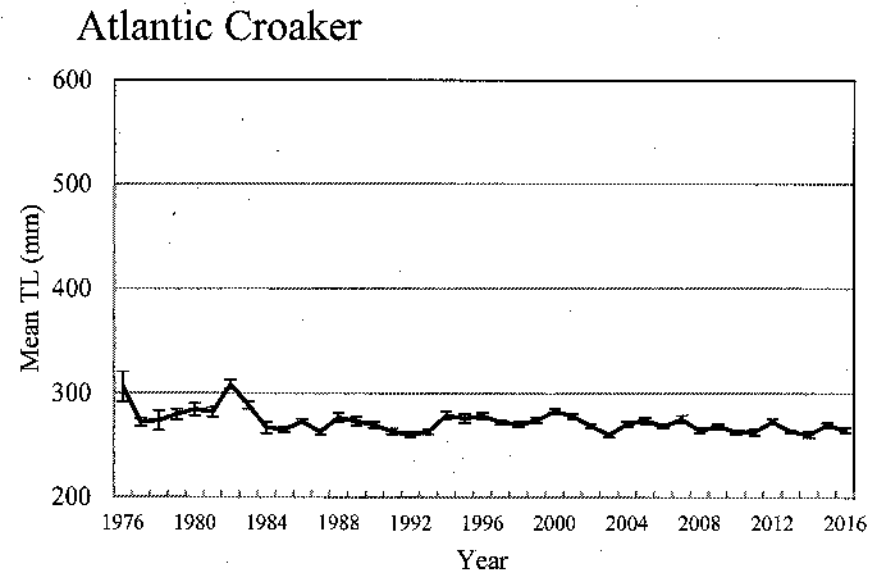
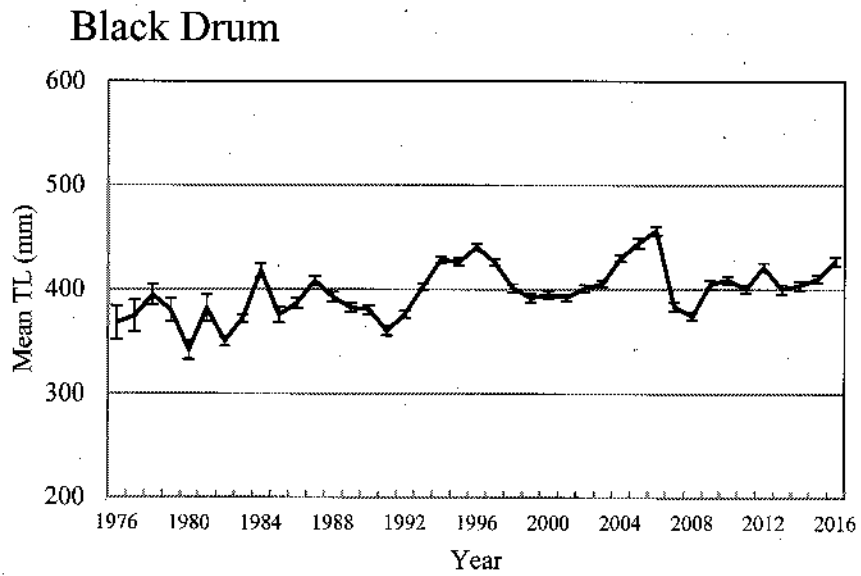
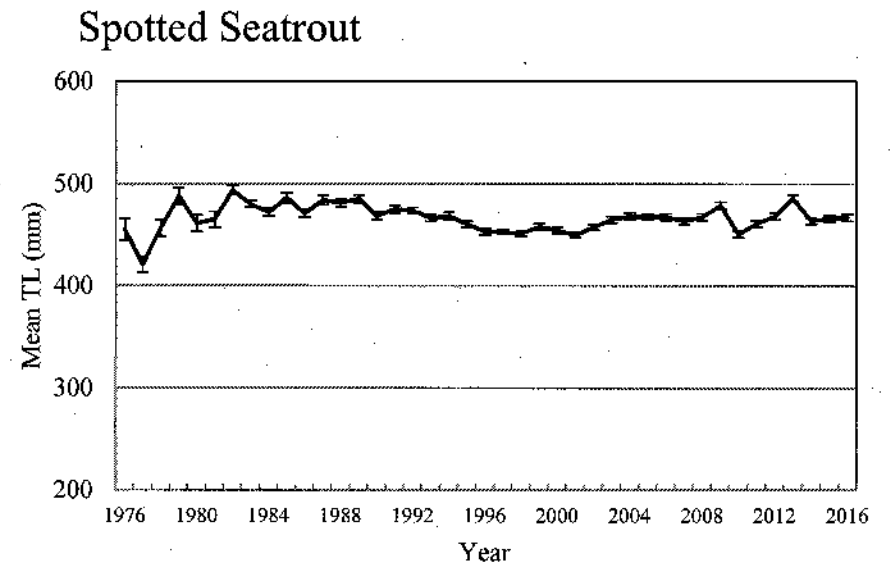
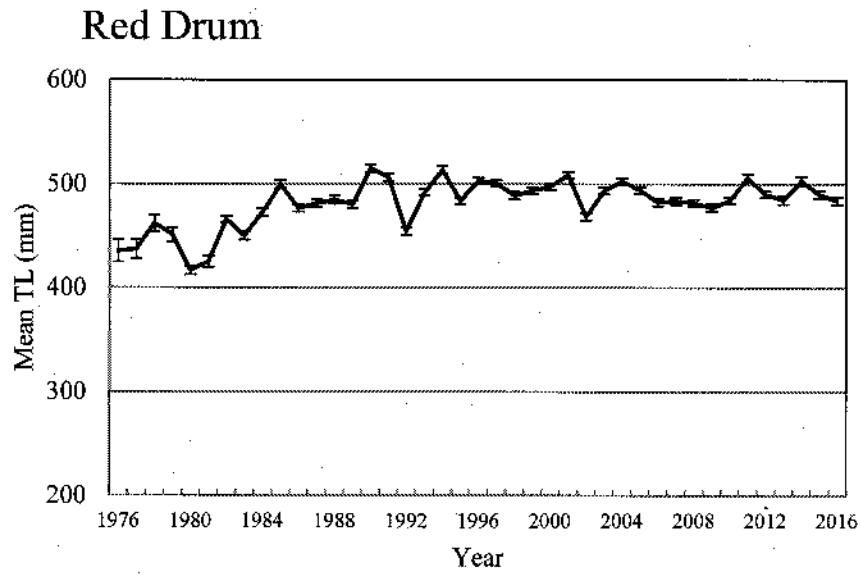
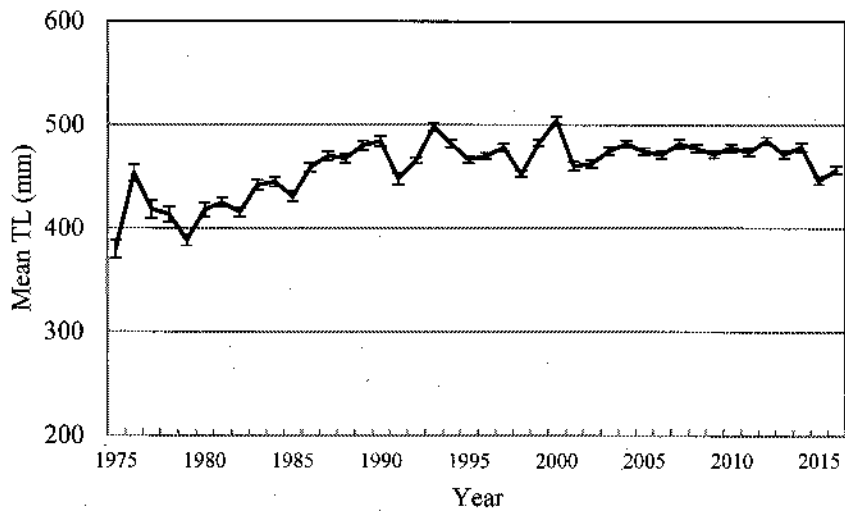
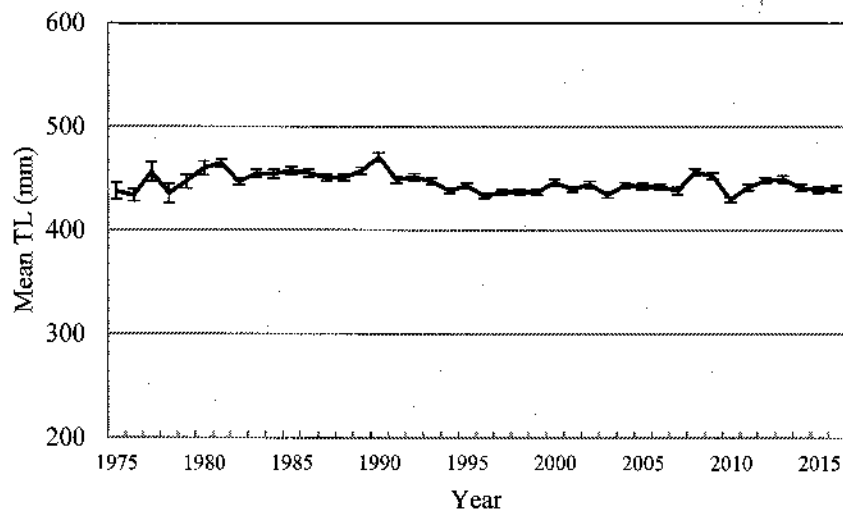


FIGURE 4.—Spring gill net mean total lengths (mm \pm 1 SE) for Red Drum, Black Drum, Spotted Seatrout, and Atlantic Croaker from 1976 to 2016.

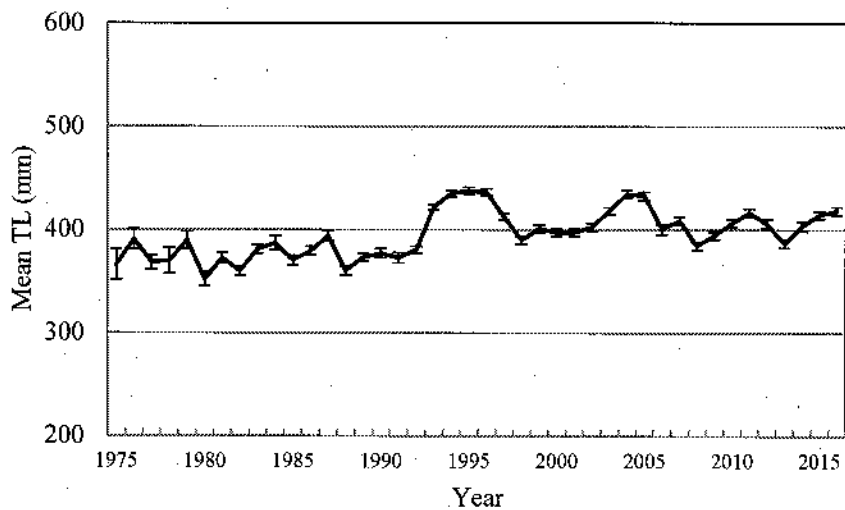
Red Drum



Spotted Seatrout



Black Drum



Atlantic Croaker

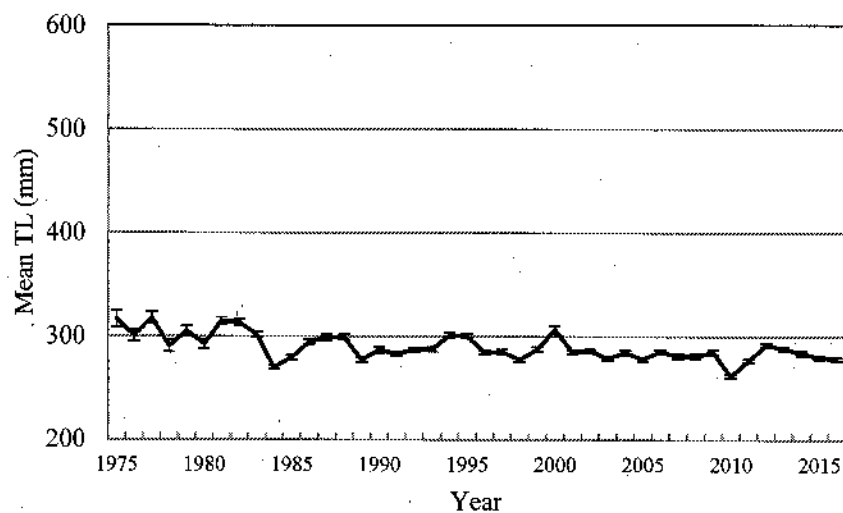
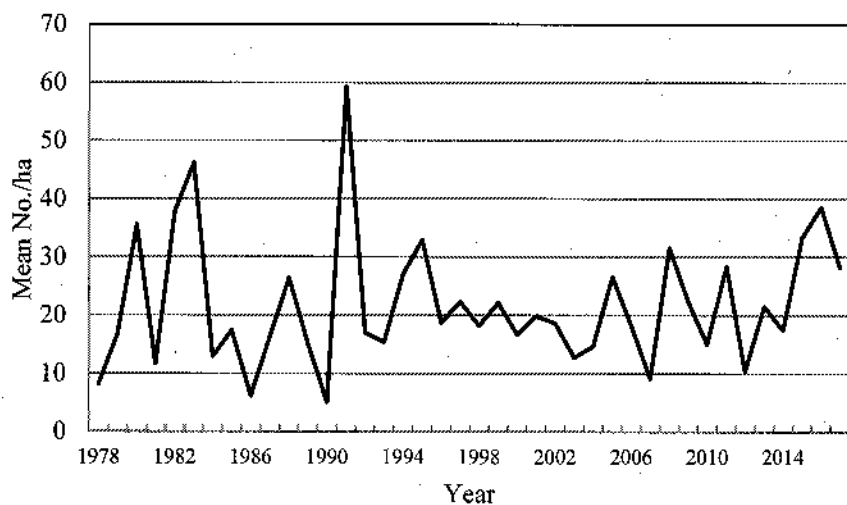
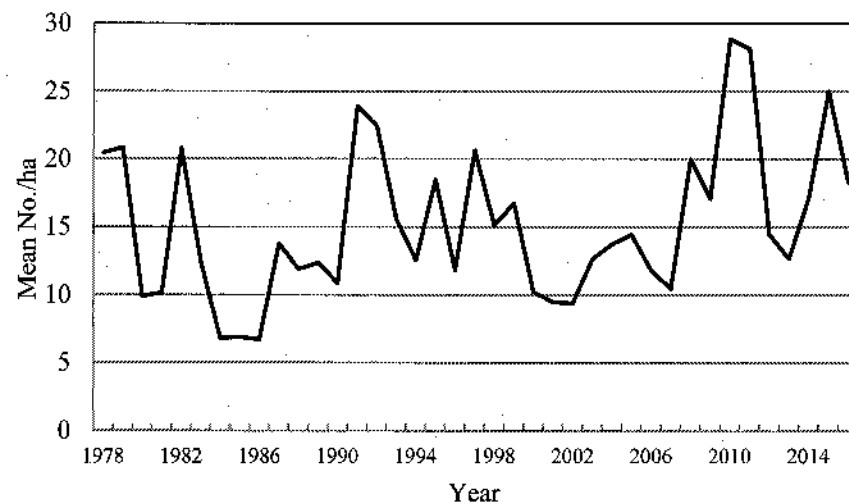


FIGURE 5.—Fall gill net mean total lengths (mm \pm 1SE) for Red Drum, Black Drum, Spotted Seatrout, and Atlantic Croaker from 1975 to 2016.

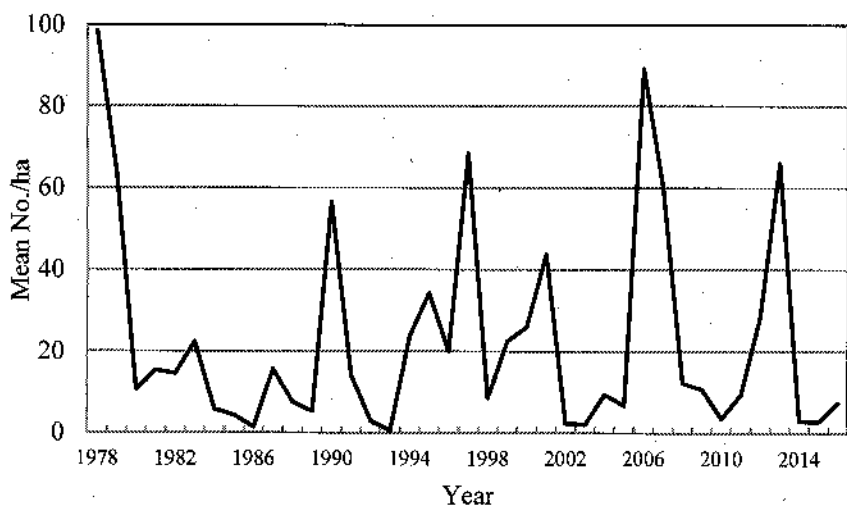
Red Drum



Spotted Seatrout



Black Drum



Atlantic Croaker

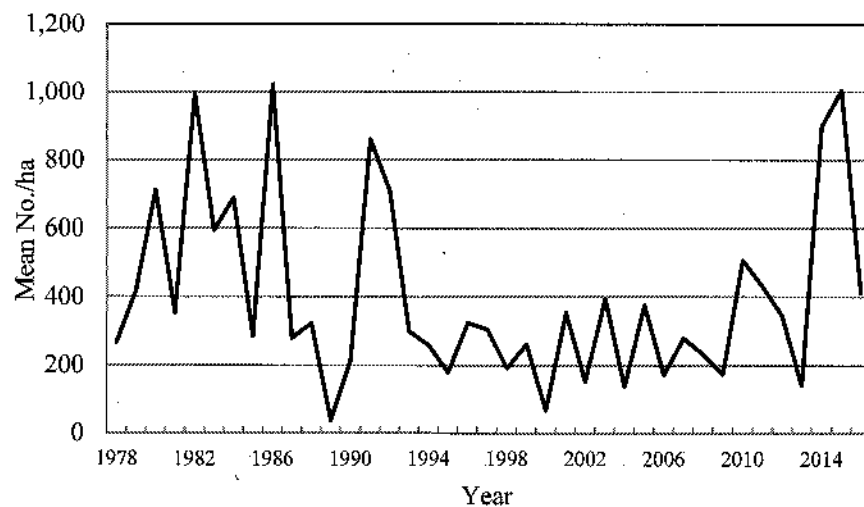
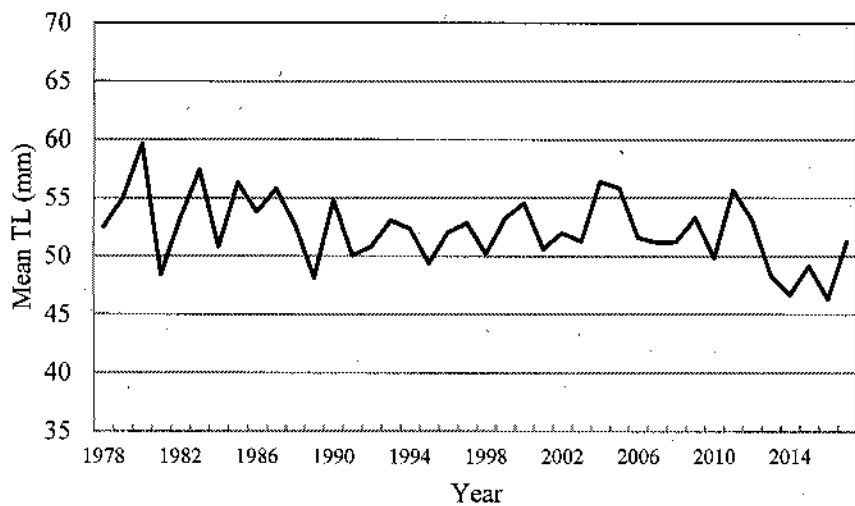
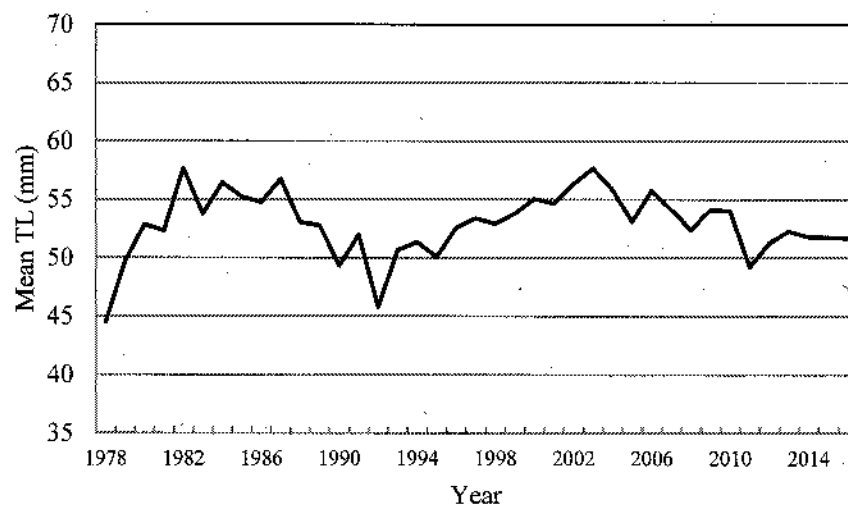


FIGURE 6.—Seasonal bag seine mean catch rates (No./ha) for juvenile Red Drum (Nov-Mar), Black Drum (Jun-Jul), Spotted Seatrout (Jul-Nov), and Atlantic Croaker (Feb-May) from 1978 to 2016. Red Drum 35-75 mm, Black Drum 35-110 mm, Spotted Seatrout 20-75 mm, and Atlantic Croaker 30-85 mm are considered young-of-the-year.

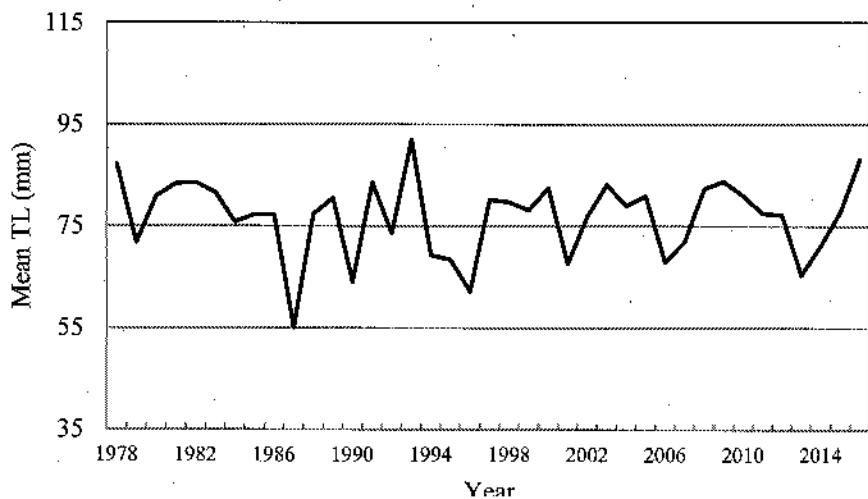
Red Drum



Spotted Seatrout



Black Drum



Atlantic Croaker

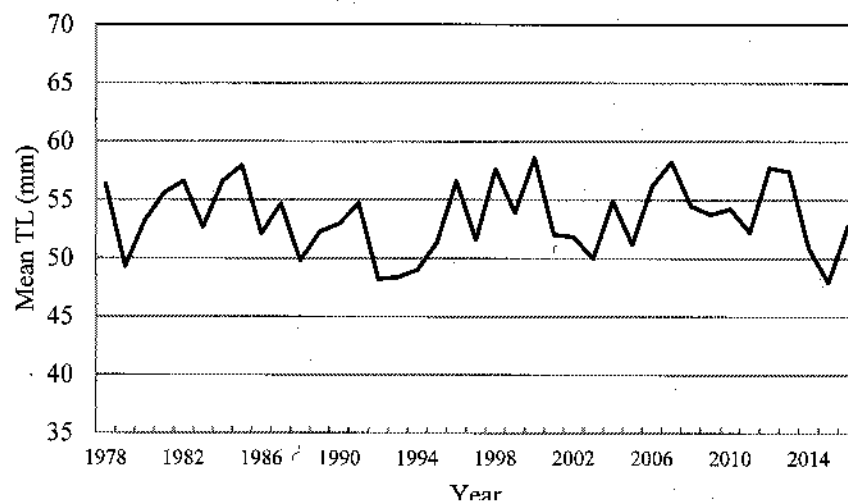
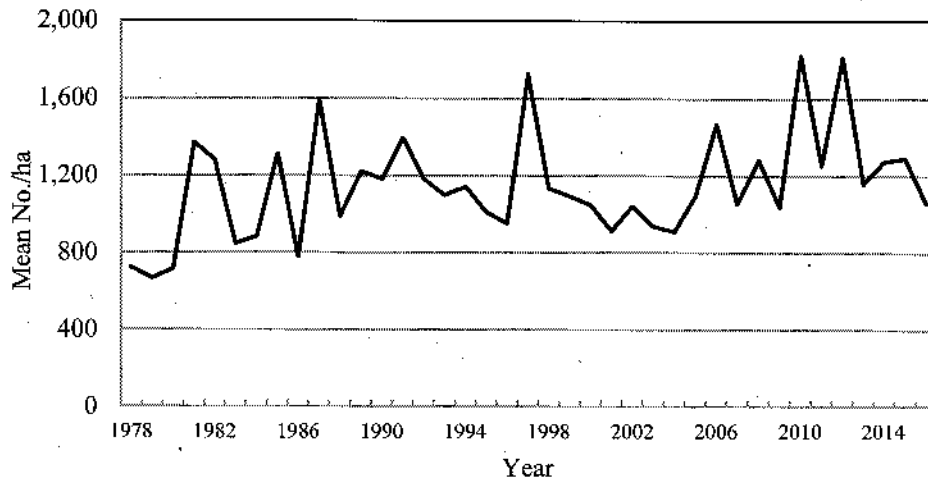
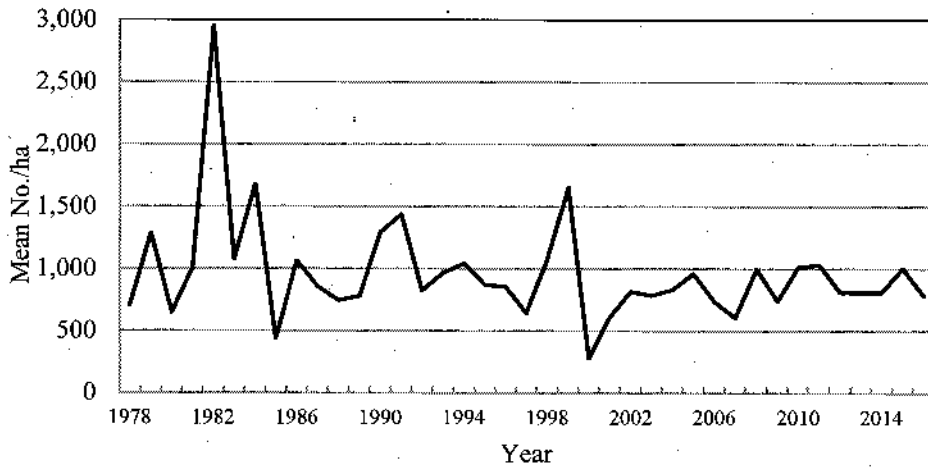


FIGURE 7.—Seasonal bag seine mean total lengths (mm) for juvenile Red Drum (Nov-Mar), Black Drum (Jun-Jul), Spotted Seatrout (Jul-Nov) and Atlantic Croaker (Feb-May) from 1978 to 2016. Red Drum 35-75 mm, Black Drum 35-110 mm, Spotted Seatrout 20-75 mm and Atlantic Croaker 30-85 mm are considered young-of-the-year.

Brown Shrimp



White Shrimp



Blue Crab

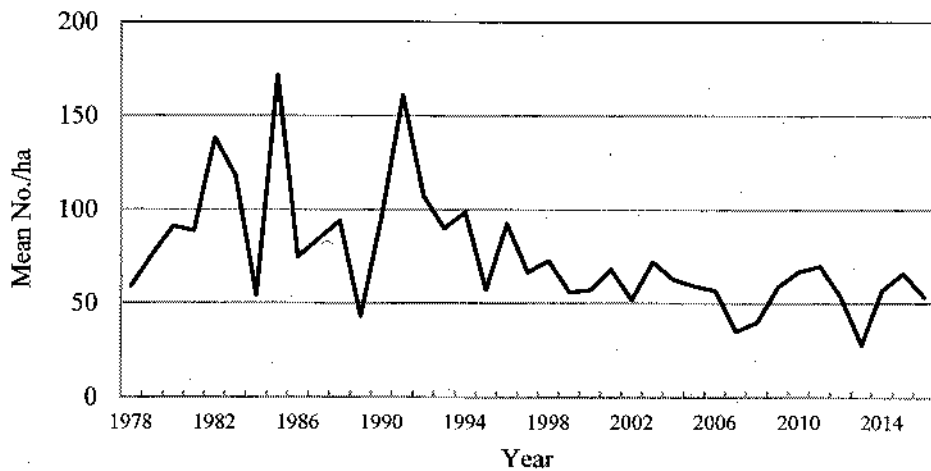
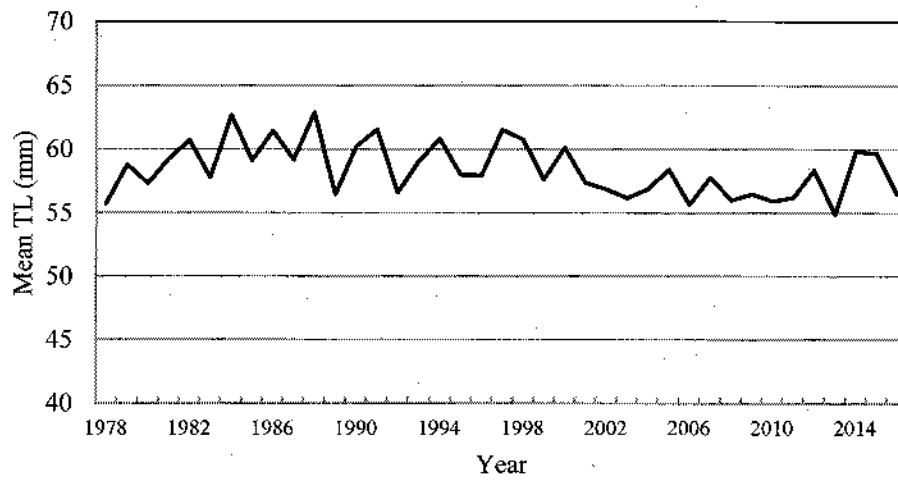
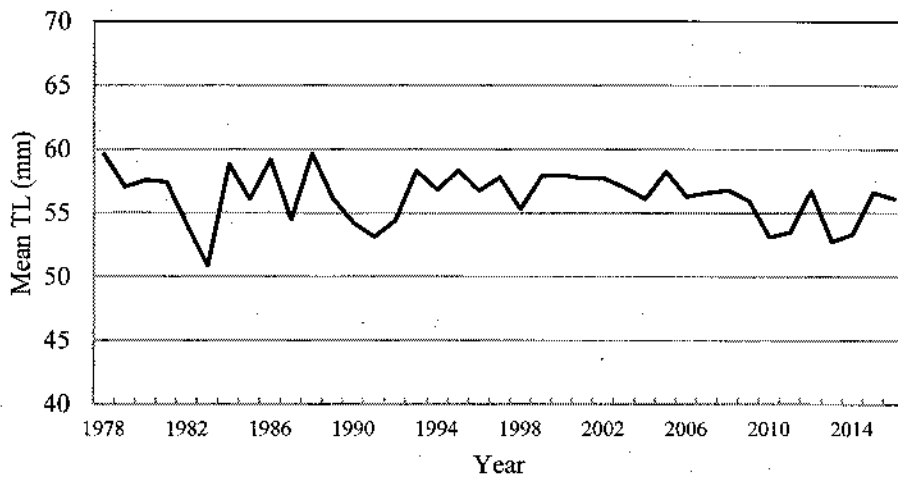


FIGURE 8.—Seasonal bag seine mean catch rates (No./ha) for juvenile brown shrimp (Apr-Jul), white shrimp (Jul-Nov) and blue crab (Mar-Jun) from 1978 to 2016. Brown and white shrimp 33-82 mm and blue crab 13-42 mm are considered young-of-the-year.

Brown Shrimp



White Shrimp



Blue Crab

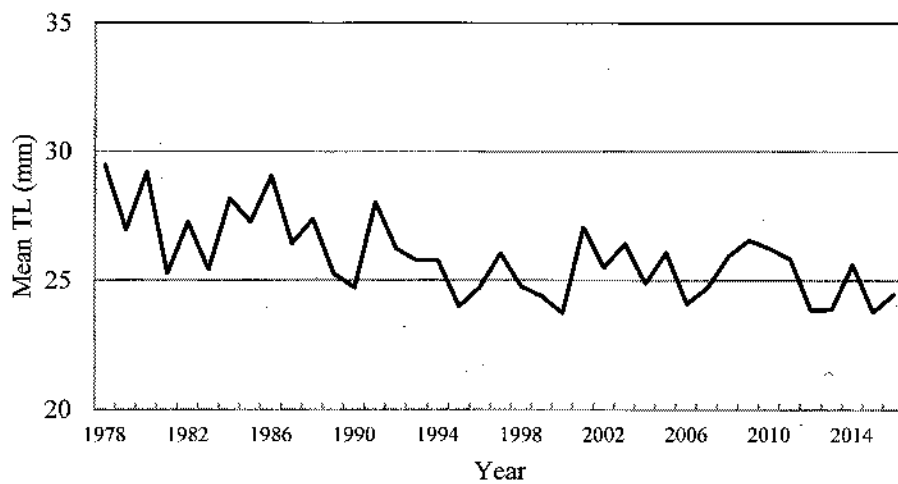
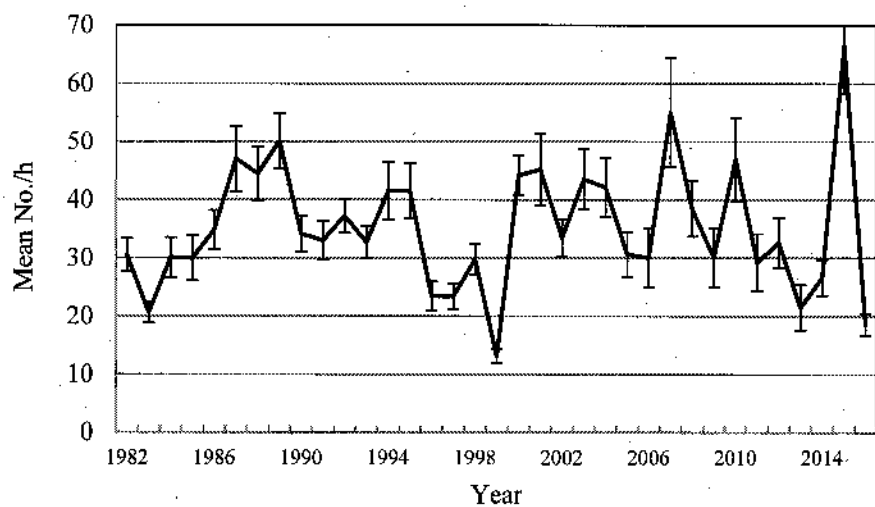
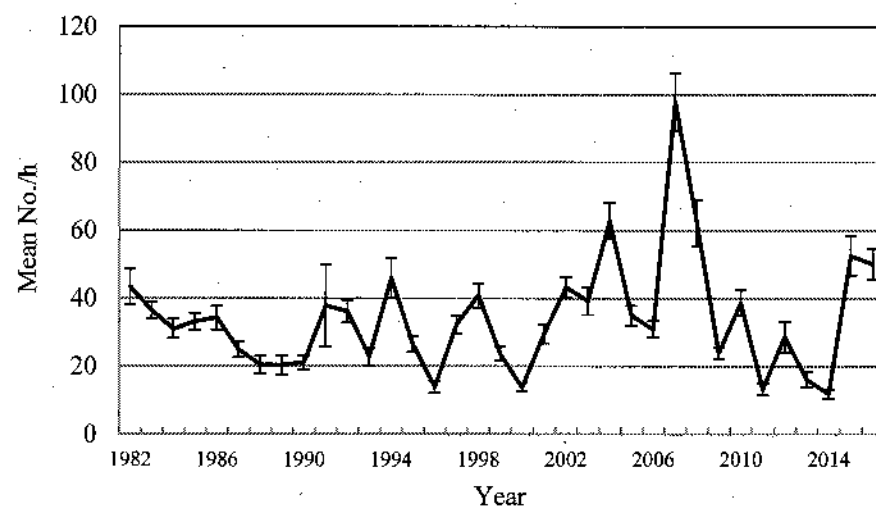


FIGURE 9.—Seasonal bag seine mean total lengths (mm) for juvenile brown shrimp (Apr-Jul), white shrimp (Jul-Nov) and blue crab (Mar-Jun) from 1978 to 2016. Brown and white shrimp 33-82 mm and blue crab 13-42 mm are considered young-of-the-year.

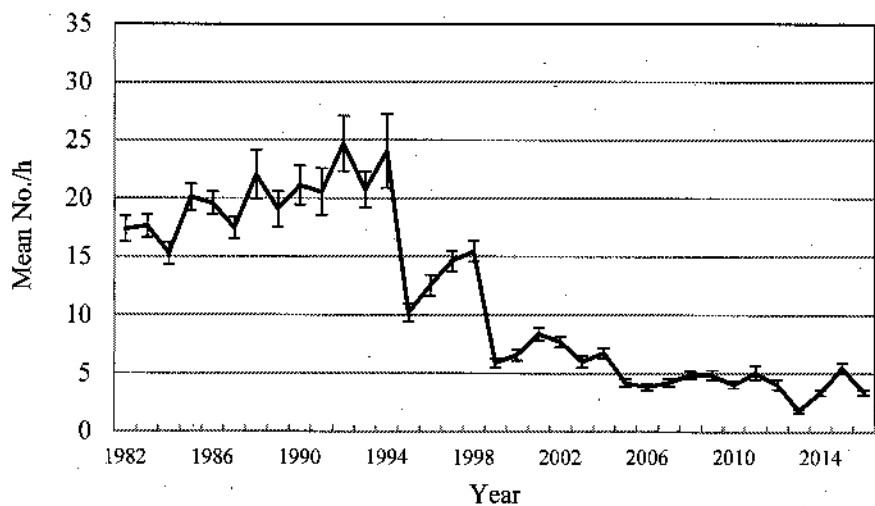
Brown Shrimp



White Shrimp



Blue Crab



Atlantic Croaker

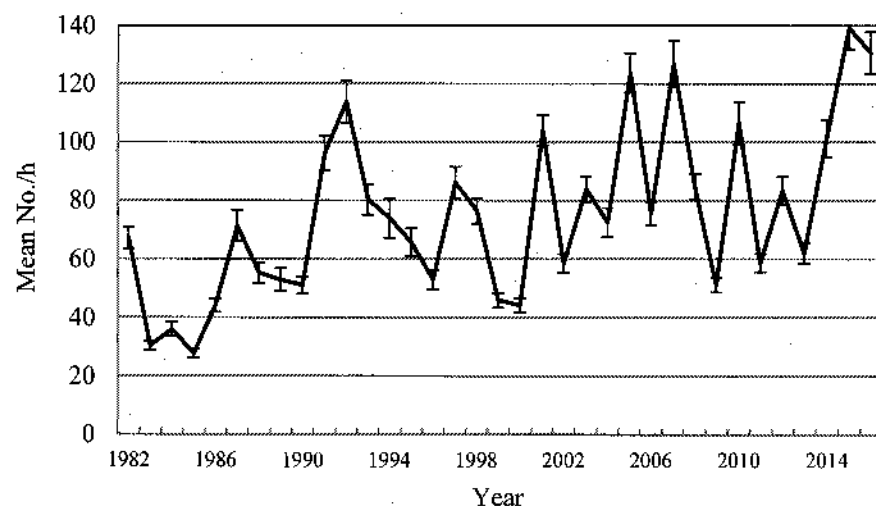
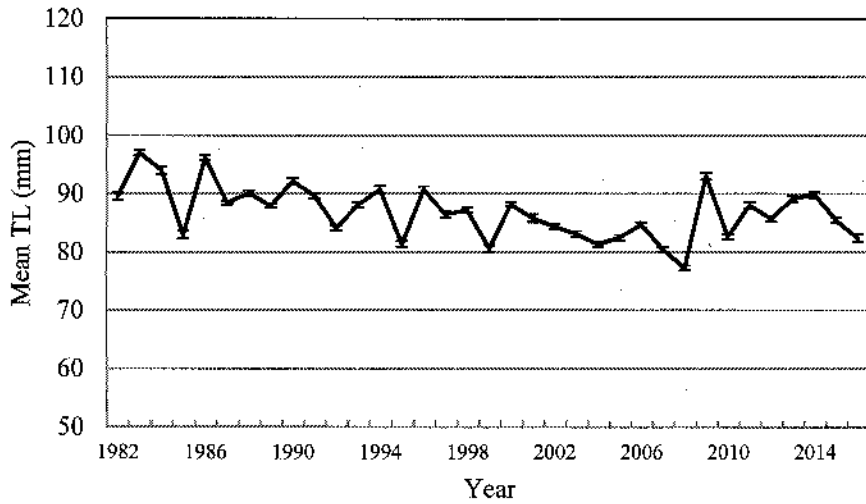
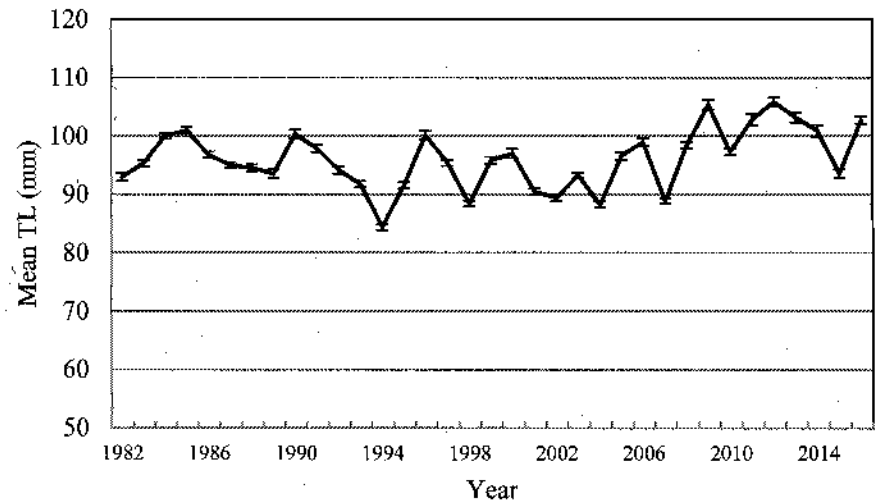


FIGURE 10.—Annual bay trawl mean catch rates (No./h \pm 1 SE) for brown shrimp, white shrimp, blue crab and Atlantic Croaker from 1982 to 2016.

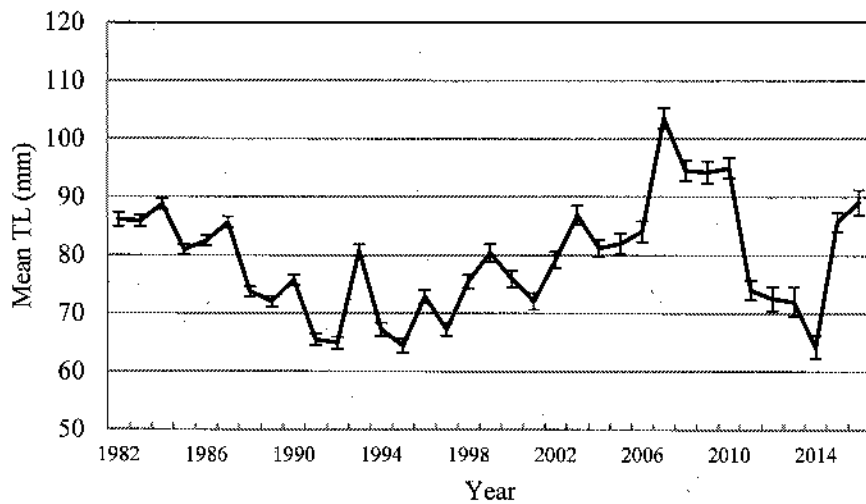
Brown Shrimp



White Shrimp



Blue Crab



Atlantic Croaker

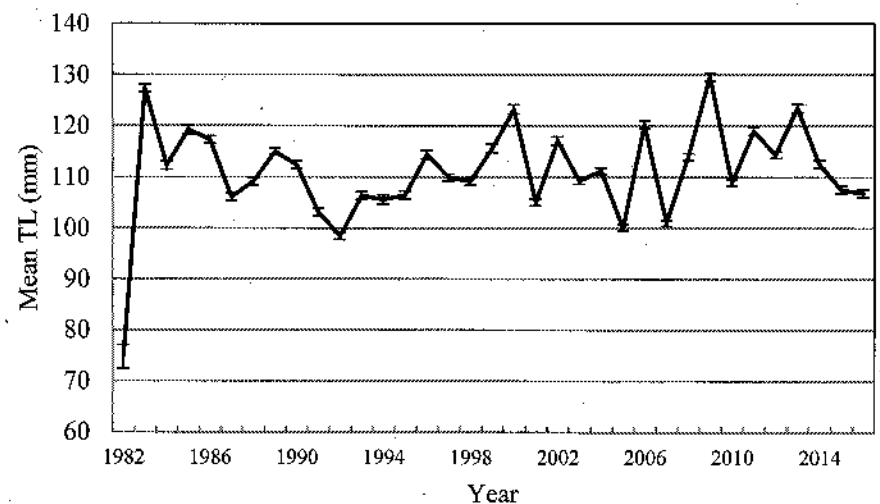
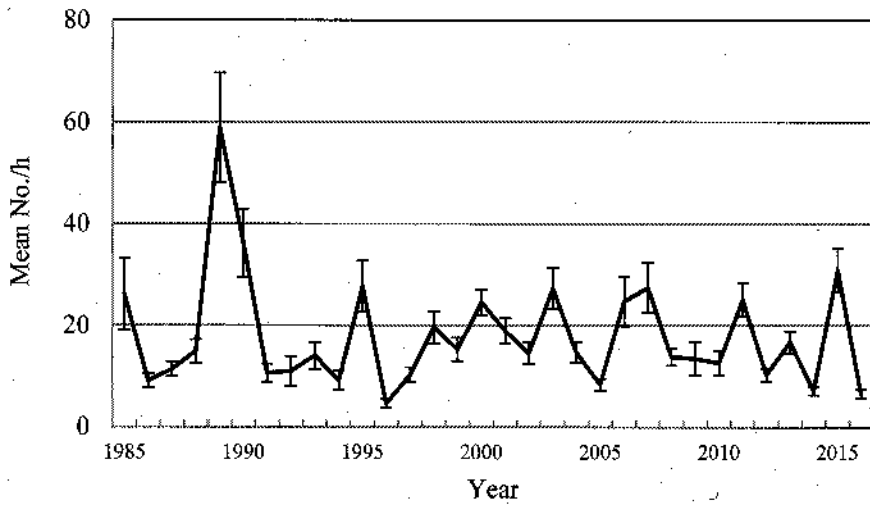
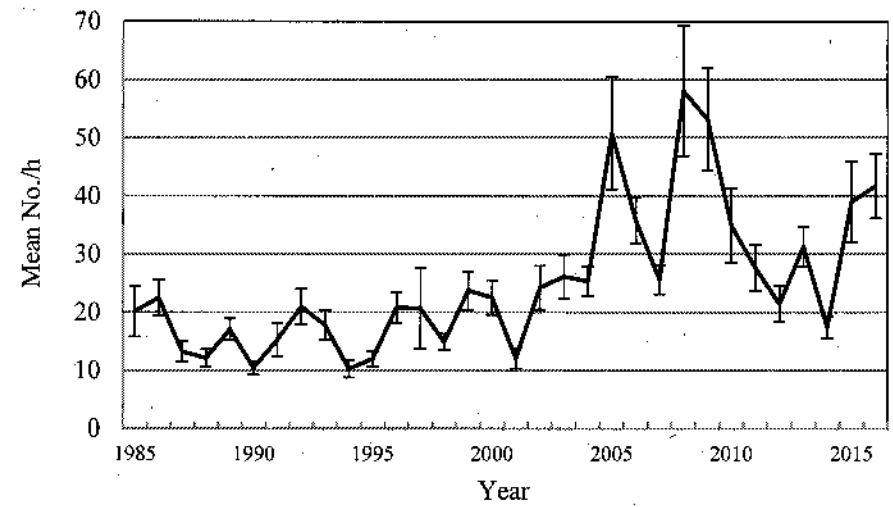


FIGURE 11.—Annual bay trawl mean total lengths (mm \pm 1 SE) for brown shrimp, white shrimp, blue crab, and Atlantic Croaker from 1982 to 2016.

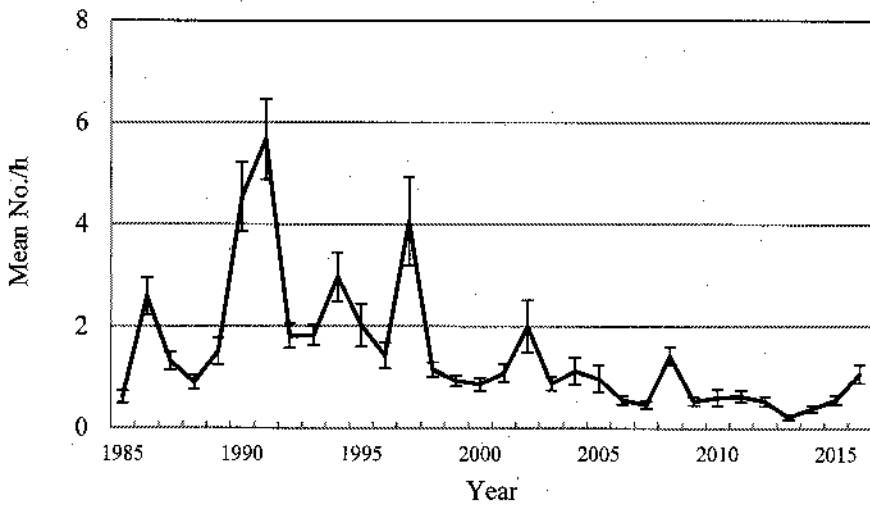
Brown Shrimp



White Shrimp



Blue Crab



Atlantic Croaker

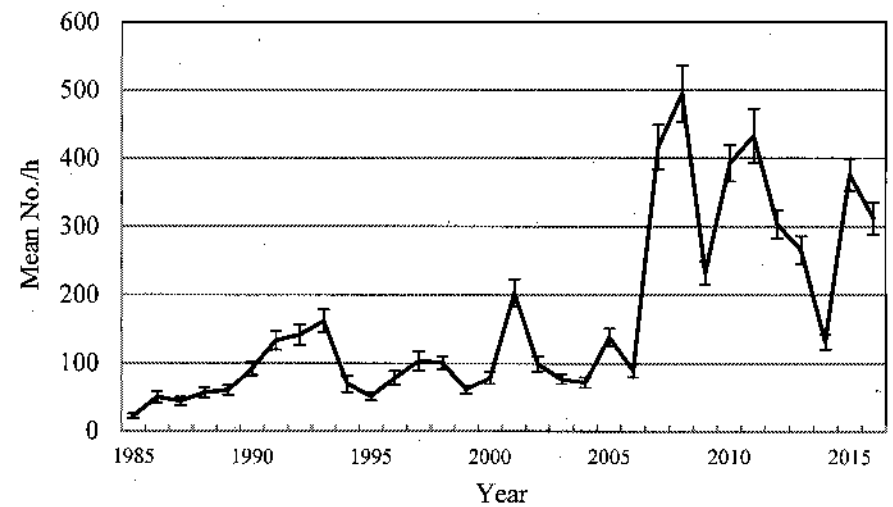
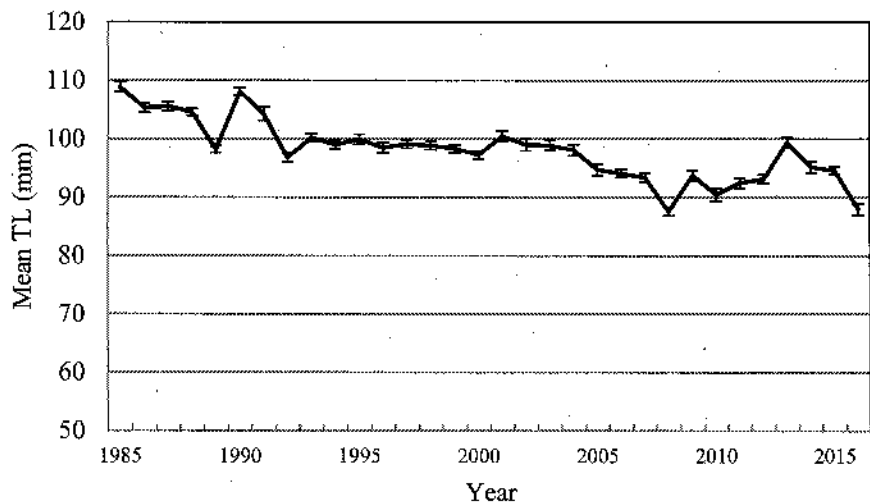
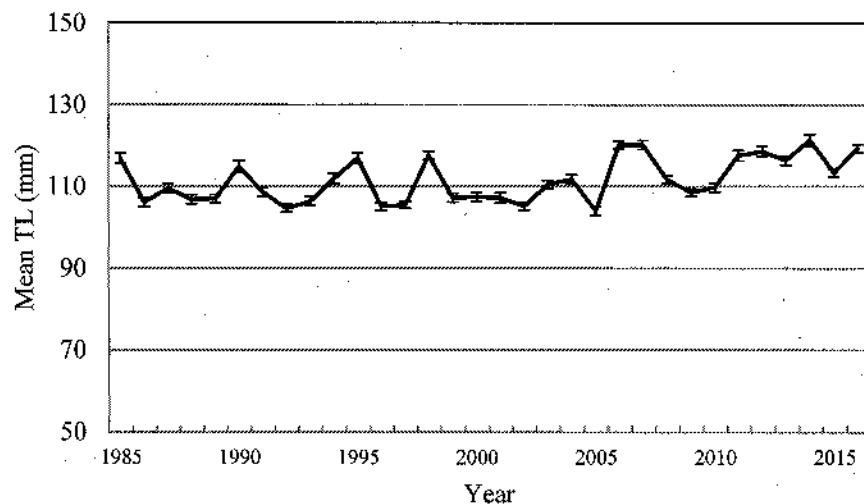


FIGURE 12.—Annual Gulf trawl mean catch rates (No./h \pm 1 SE) for brown shrimp, white shrimp, blue crab, and Atlantic Croaker from 1985 to 2016.

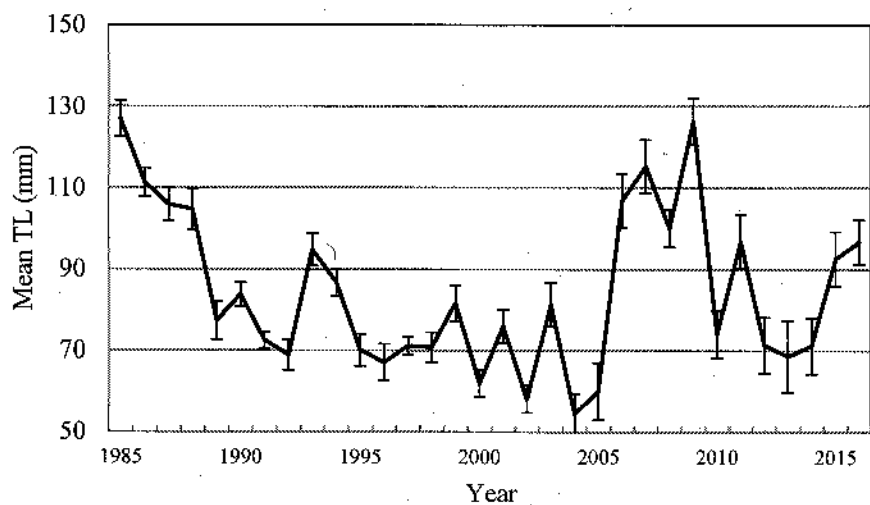
Brown Shrimp



White Shrimp



Blue Crab



Atlantic Croaker

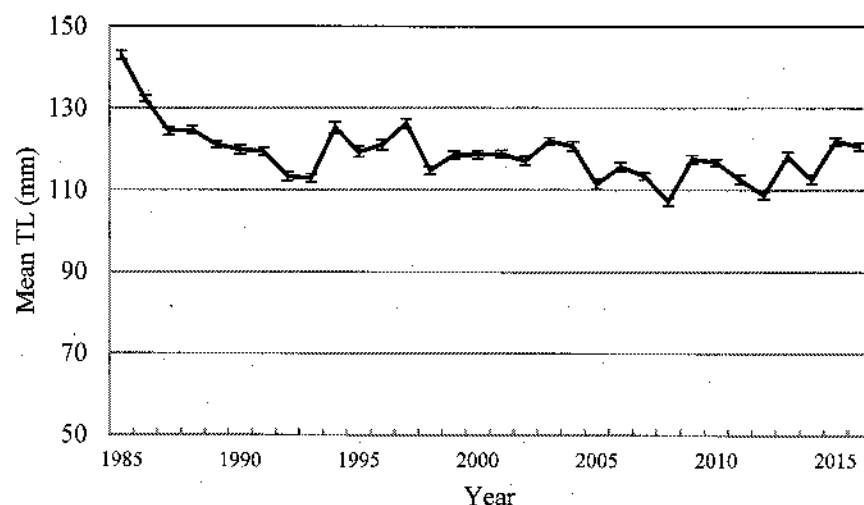
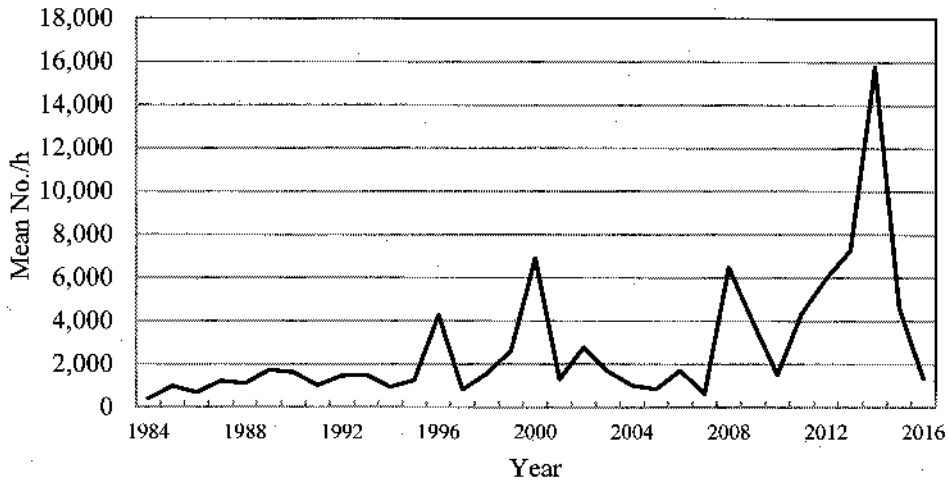
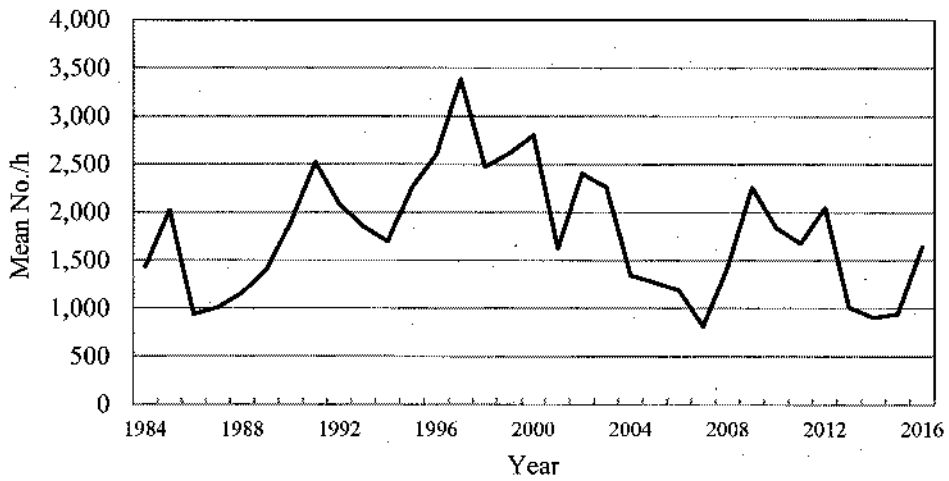


FIGURE 13.—Annual Gulf trawl mean total lengths (mm \pm 1 SE) for brown shrimp, white shrimp, blue crab, and Atlantic Croaker from 1985 to 2016.

Oyster Spat



Small Oysters



Market Oysters

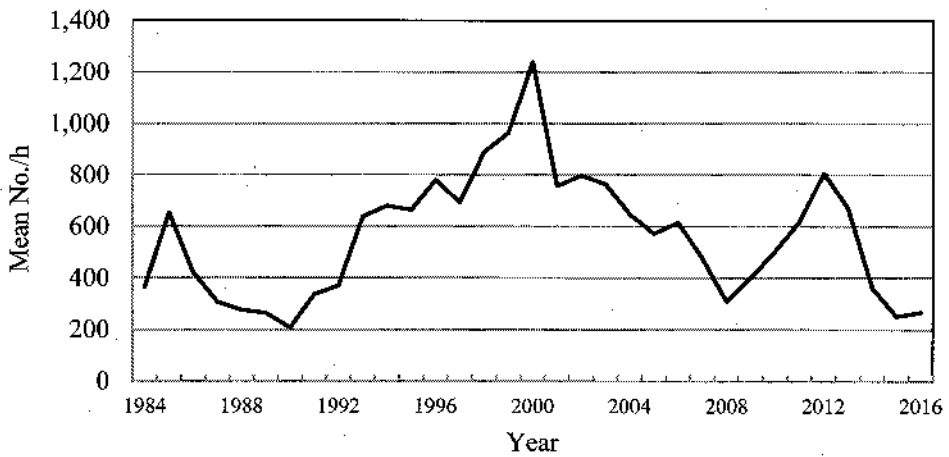
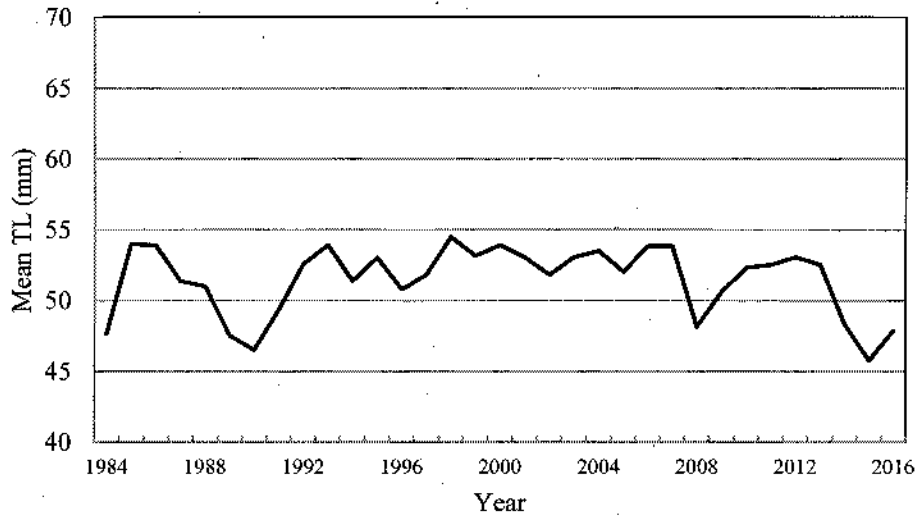


FIGURE 14.—Annual mean oyster dredge catch rates (No./h) for Eastern oyster spat (≤ 25 mm), small oysters (26-75 mm) and market oysters (≥ 75 mm) from 1984 to 2016.

Small Oysters



Market Oysters

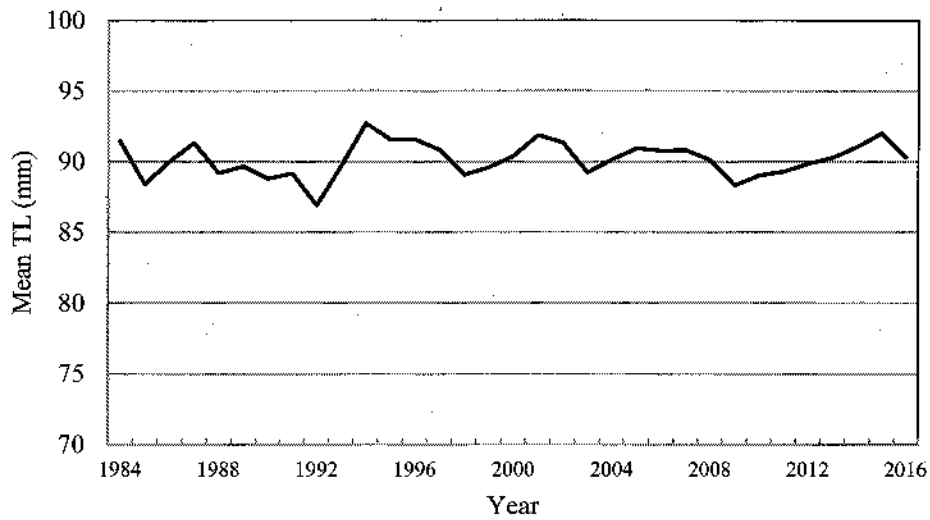


FIGURE 15.—Annual mean oyster dredge total lengths (mm) for Eastern oysters from 1984 to 2016.

Appendix A. Summary of historical sampling dates, gear description, procedures, dates, number of samples collected, weighting factors, and list of species collected.

TABLE A.1.—Historical sampling dates (month/year) by bay system and gear.

GEAR	SABINE	GALVESTON	EAST MATAGORDA	MATAGORDA	SAN ANTONIO	ARANSAS	CORPUS CHRISTI	UPPER LAGUNA	LOWER LAGUNA
GILL NET	April 1986- Present	Nov. 1975- Present	Oct. 1976- Present	Nov. 1975- Present	Nov. 1975- Present	Nov. 1975- Present	Nov. 1975- Present	Nov. 1975- Present	Nov. 1975- Present
GULF TRAWL	Jul. 1986- Present	Aug. 1985- Present	Not used.	Not used.	Aug. 1985- Present	Not used.	Feb. 1985- Present	Not used.	Aug. 1985- Present
BAY TRAWL	Jan. 1986- Present	Jan. 1982- Present	April 1987- Present	May 1982- Present	Jan. 1982- Present	Jan. 1982- Present	May 1982- Present	May 1982- Present	May 1982- Present
ICWW TRAWL	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995	Jan. Dec. 1992-1995
BEACH SEINE	Oct. Nov. 1987-1995	Oct. Nov. 1987-1995	Oct. Nov. 1987-1995	Not used.	Oct. Nov. 1987-1995	Oct. Nov. 1987-1991	Not used.	Oct. Nov. 1987-1995	Oct. Nov. 1987-1995
BEACH BAG SEINE	Oct. Nov. 1987-1995	Oct. Nov. 1987-1995	Oct. Nov. 1987-1995	Not used.	Oct. Nov. 1987-1995	Oct. Nov. 1987-1991	Not used.	Oct. Nov. 1987-1995	Oct. Nov. 1987-1995
BAY BAG SEINE	Jan. 1986- Present	Oct. 1977- Present	Feb. 1983- Present	Oct. 1977- Present	Oct. 1977- Present	Oct. 1977- Present	Oct. 1977- Present	Oct. 1977- Present	Oct. 1977- Present
OYSTER REEF DREDGE	Jan. 1986- 1991	Oct. 1984- Present	Jan. 1986-1991	Jan. 1986- Present	Jan. 1986- Present	Jan. 1986- Present	Jan. 1986- 1991	Not used.	Jan. 1986- 1991
NON-REEF DREDGE	1986-1989	1985-1989	1986-1989	1986-1989	1986-1989	1986-1989	1986-1989	1986-1988	1986-1988

TABLE A.2.—Gear descriptions.

GEAR	GEAR DESCRIPTION
Gill Net	Monofilament, 183 m long; 1.2 m deep with four separate 45.7 m sections of 7.6, 10.2 (#12 monofilament), 12.7 and 15.2 cm (#18 monofilament) stretched mesh tied together in ascending mesh size.
Trawl	6.1 m wide at mouth with 3.8 cm stretched nylon multifilament mesh throughout and doors 1.2 m long and 0.5 m tall.
Beach Seine	60.9 m long; 1.8 m deep with 7.6 cm stretched #12 monofilament mesh.
Bag Seine	18.3 m long; 1.8 m deep with 1.3 cm stretched nylon multifilament mesh in the 1.8 m wide central bag with remaining webbing 1.9 cm stretched mesh.
Oyster Dredge	Louisiana style 9-tooth: 46 cm wide, 25 cm tall with a 36 cm deep bag. Four bottom rows and one top row of linked metal rings 5 cm in diameter; top and bottom rows of 7.6 cm mesh webbing made of 0.8 cm nylon rope.

TABLE A.3.—Historical sampling procedures by gear.

GEAR	HISTORICAL SAMPLING PROCEDURES
Gill Net	<p>Monofilament gill nets have been systematically used in seven Texas bay systems since November 1975; East Matagorda Bay was added in fall 1976, Sabine Lake in spring 1986, and Cedar Lakes in spring 1996 (Figure 1). Prior to September 1984, sites for setting gill nets during spring (ten week period, generally, 15 April-15 June) and fall (ten week period, generally, 15 September-15 November) were randomly selected from about 100 stations in each bay system (Martinez-Andrade et al. 2005). Beginning September 1984, current site selection methods were adopted.</p> <p>Prior to fall 1981, no less than one nor more than 18 overnight gill net sets occurred in each season in each bay system. Since fall 1981, 45 gill nets were set overnight during each season in each bay system except East Matagorda Bay. In East Matagorda Bay, from fall 1981 to spring 1984, not less than six nor more than 12 gill nets were set during each season; since fall 1984, 20 sets were set in each season. In Cedar Lakes, from spring 1996 to fall 1999, not less than 20 sets were conducted each season; since spring 2000, ten sets were set each season.</p>
Gulf Trawls	<p>Trawls have been systematically used in four Gulf areas of the Texas Territorial Seas since August 1985 and a total of five areas since July 1986.</p>
Bay Trawls	<p>Trawls have been systematically used in Texas bays since January 1982; Sabine Lake was added on January 1986 and East Matagorda Bay on April 1987. Beginning in January 1982, 20 monthly samples were collected in Galveston Bay, San Antonio Bay, and Aransas Bay. Beginning in May 1982 current methods were adopted.</p>
ICWW Trawls	<p>From January 1992 through December 1995, six monthly samples were collected in each of the nine major bay systems along the Texas coast.</p>

TABLE A.3.—(Cont.)

GEAR	HISTORICAL SAMPLING PROCEDURES
Beach Seine	Beach seines were systematically used on Texas Gulf beaches from October 1987 through November 1995. Six beach seine samples were collected each month (from October 1987-November 1989; from May-November 1990-1995) along Gulf beach shoreline areas (Trial et al. 2006).
Beach Bag Seine	Beach bag seine samples were systematically used on Texas Gulf beaches from October 1987 through November 1995. Six beach bag seine samples were collected each month (from October 1987-November 1989; from May-November 1990-1995) along Gulf beach shoreline areas (Trial et al. 2006).
Bay Bag Seine	Bay bag seine samples have been systematically collected in seven Texas bay systems since October 1977; sample collection began in the East Matagorda Bay system February 1983 and Sabine Lake in January 1986. Bay bag seine samples were collected by pulling the seine 15.2-30.5 m parallel to shore prior to September 1984; since then it has been pulled 15.2 m. Prior to September 1984, sites for sampling with bag seines (monthly) were randomly selected from about 100 stations in each bay system (Martinez-Andrade et al. 2005). Prior to October 1981, six bag seine samples were collected each month in each bay system (except during June 1978 when no samples were collected). From October 1981 through August 1984, ten bag seine samples were collected each month in each bay system; half of the samples were collected during each of the first and last two fullest weeks of each month (Martinez-Andrade et al. 2005). Beginning September 1984, half of the monthly samples were collected during the 1st-15th and half during the 16th-31st of each month. From April 1988 through December 1989, 12 bag seine samples were collected each month in each bay system. Beginning January 1990, 16 bag seine samples were collected each month in each bay system. Beginning January 1992, 20 samples were collected in each bay system each month, except in East Matagorda Bay where only ten samples were collected per month. Beginning January 1996, ten bag seine samples were collected each month in Cedar Lakes. Seasonal catch rates for selected species were presented beginning in 1990 based on recommendations of McEachron and Green, 1986.

TABLE A.3.—(Cont.)

GEAR	HISTORICAL SAMPLING PROCEDURES
Oyster Reef Dredge	<p>Oyster dredges have been systematically used in Texas bays since January 1986. The number of monthly samples collected within the Galveston Bay system were: 20 in 1984; 80 in 1985; and 56 in 1986-1991. Monthly samples collected in the Aransas Bay system were: 56 in 1986-1989; and 26 in 1990-1991. From 1986 to 1991, ten samples per month were collected in Sabine Lake and the Lower Laguna Madre and 26 monthly samples were collected in the Matagorda, San Antonio, Corpus Christi and East Matagorda Bay systems. Beginning January 1992, 30 samples were collected each month in Galveston Bay and 20 samples each in Matagorda Bay, San Antonio Bay and Aransas Bay. Sampling in other systems were discontinued in January 1992.</p>
Non-Reef Dredge	<p>Non-reef dredge samples were systematically collected in Texas bays from 1985-1989. In 1985, ten monthly samples were collected in the Galveston Bay system. From 1986-1989, 10 monthly samples were collected in all bay systems.</p>

TABLE A.4.—Number of samples collected during routine monitoring by bay, gear, and year.

Gear	Year	Sabine		East		San		Corpus Christi	Upper	Lower	Coast-wide ^a
		Lake	Galveston	Matagorda	Matagorda	Antonio	Aransas		Laguna Madre	Laguna Madre	
Bay Bag	1977	0	22	0	22	22	22	22	22	22	154
Seine	1978	0	66	0	66	66	66	66	66	66	462
	1979	0	72	0	72	72	72	72	72	72	504
	1980	0	72	0	72	72	72	72	72	72	504
	1981	0	84	0	84	84	84	84	84	84	588
	1982	0	120	0	120	120	120	120	120	120	840
	1983	0	120	110	120	120	120	120	120	120	950
	1984	0	120	120	120	120	120	120	120	120	960
	1985	0	120	120	120	120	120	120	120	120	960
	1986	120	120	120	120	120	120	120	120	120	1,080
	1987	120	120	120	120	120	120	120	120	120	1,080
	1988	138	138	138	138	138	138	138	138	138	1,242
	1989	144	144	144	144	144	144	144	144	144	1,296
	1990	192	192	192	192	192	192	192	192	192	1,728
	1991	192	192	192	192	192	192	192	192	192	1,728
	1992	240	240	120	240	240	240	240	240	240	2,040
	1993	240	240	120	240	240	240	240	240	240	2,040
	1994	240	240	120	240	240	240	240	240	240	2,040
	1995	240	240	120	240	240	240	240	240	240	2,040
	1996	240	240	120	240	240	240	240	240	240	2,160
	1997	240	240	120	240	240	240	240	240	240	2,160
	1998	240	240	120	240	240	240	240	240	240	2,160
	1999	240	240	120	240	240	240	240	240	240	2,160
	2000	240	240	120	240	240	240	240	240	240	2,160
	2001	240	240	120	240	240	240	240	240	240	2,160
	2002	240	240	120	240	240	240	240	240	240	2,160
	2003	240	240	120	240	240	240	240	240	240	2,160
	2004	240	240	120	240	240	240	240	240	240	2,160
	2005	240	240	120	240	240	240	240	240	240	2,160
	2006	240	240	120	240	240	240	240	240	240	2,160
	2007	240	240	120	240	240	240	240	240	240	2,160
	2008	240	240	120	240	240	240	240	240	240	2,160
	2009	240	240	120	240	240	240	240	240	240	2,160
	2010	240	240	120	240	240	240	240	240	240	2,160
	2011	240	240	120	240	240	240	240	240	240	2,160
	2012	240	240	120	240	240	240	240	240	240	2,160

TABLE A.4.—(Cont.)

Gear	Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coast-wide ^a
Bay Bag Seine (cont.)	2013	240	240	116	240	240	240	240	240	240	2156
	2014	240	240	120	240	240	240	240	240	240	2160
	2015	240	240	120	240	240	240	240	240	240	2160
	2016	240	240	120	240	240	240	240	240	240	2160
Bay Trawl	1977	0	9	0	10	10	0	0	0	10	39
	1978	0	55	0	52	45	0	0	0	55	207
	1979	0	55	0	47	0	0	0	0	55	157
	1980	0	1	0	0	0	0	0	0	0	1
	1981	0	0	0	0	0	0	0	0	0	0
	1982	0	240	0	240	240	160	80	80	160	1,200
	1983	0	240	0	240	240	240	240	120	120	1,440
	1984	0	240	0	240	240	240	240	120	120	1,440
	1985	0	240	0	240	240	240	240	120	120	1,440
	1986	240	240	0	240	240	240	240	120	120	1,440
	1987	240	240	90	240	240	240	240	120	120	1,770
	1988	240	240	120	240	240	240	240	120	120	1,800
	1989	240	240	120	240	240	240	240	120	120	1,800
	1990	120	240	120	240	240	240	240	120	120	1,680
	1991	120	240	120	240	240	240	240	120	120	1,680
	1992	120	240	120	240	240	240	240	120	120	1,680
	1993	120	240	120	240	240	240	240	120	120	1,680
	1994	120	240	120	240	240	240	240	120	120	1,680
	1995	120	240	120	240	240	240	240	120	120	1,680
	1996	120	240	120	240	240	240	240	120	120	1,680
1997	120	240	120	240	240	240	240	120	120	1,680	
1998	120	240	120	240	240	240	240	120	120	1,680	
1999	120	240	120	240	240	240	240	120	120	1,680	
2000	120	240	120	240	240	240	240	120	120	1,680	
2001	120	240	120	240	240	240	240	120	120	1,680	
2002	120	240	120	240	240	240	240	120	120	1,680	
2003	120	240	120	240	240	240	240	120	120	1,680	
2004	120	240	120	240	240	240	240	120	120	1,680	
2005	120	240	120	240	240	240	240	120	120	1,680	
2006	120	240	120	240	240	240	240	120	120	1,680	
2007	120	240	120	240	240	240	240	120	120	1,680	
2008	120	240	120	240	240	240	240	120	120	1,680	

TABLE A.4.—(Cont.)

Gear	Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coast-wide ^a
Bay Trawl (cont.)	2009	120	240	120	240	240	240	240	120	120	1,680
	2010	120	240	120	240	240	240	240	120	120	1,680
	2011	120	240	120	240	240	240	240	120	120	1,680
	2012	120	240	120	240	240	240	240	120	120	1,680
	2013	120	240	120	240	240	240	240	120	120	1,680
	2014	120	240	120	240	240	240	240	120	120	1,680
	2015	120	240	120	240	240	240	240	120	120	1,680
	2016	120	240	120	240	240	240	240	120	120	1,680
Gill Net (Spring)	1976	0	2	0	1	1	1	1	2	1	9
	1977	0	8	4	6	6	6	6	6	6	48
	1978	0	8	8	8	8	8	8	8	8	64
	1979	0	12	12	12	12	12	12	12	12	96
	1980	0	12	12	12	12	12	12	12	12	96
	1981	0	8	8	8	8	8	8	8	8	64
	1982	0	45	8	45	45	45	45	45	45	323
	1983	0	45	8	45	45	45	45	45	45	323
	1984	0	45	8	45	45	45	45	45	45	323
	1985	0	45	20	45	45	45	45	45	45	335
	1986	45	45	20	45	45	45	45	45	45	380
	1987	45	45	20	45	45	45	45	45	45	380
	1988	45	45	20	45	45	45	45	45	45	380
	1989	45	45	20	45	45	45	45	45	45	380
	1990	45	45	20	45	45	45	45	45	45	380
	1991	45	45	20	45	45	45	45	45	45	380
	1992	45	45	20	45	45	45	45	45	45	380
	1993	45	45	20	45	45	45	45	45	45	380
	1994	45	45	20	45	45	45	45	45	45	380
	1995	45	45	20	45	45	45	45	45	45	380
1996	45	45	20	45	45	45	45	45	45	400	
1997	45	45	20	45	45	45	45	45	45	400	
1998	45	45	20	45	45	45	45	45	45	400	
1999	45	45	20	45	45	45	45	45	45	400	
2000	45	45	20	45	45	45	45	45	45	390	
2001	45	45	20	45	45	45	45	45	45	390	
2002	45	45	20	45	45	45	45	45	45	390	
2003	45	45	20	45	45	45	45	45	45	390	

TABLE A.4.—(Cont.)

Gear	Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coast-wide ^a
Gill Net (Spring) (cont.)	2004	45	45	20	45	45	45	45	45	45	390
	2005	45	45	20	45	45	45	45	45	45	390
	2006	45	45	20	45	45	45	45	45	45	390
	2007	45	45	20	45	45	45	45	45	45	390
	2008	45	45	20	45	45	45	45	45	45	390
	2009	45	45	20	45	45	45	45	45	45	390
	2010	45	45	20	45	45	45	45	45	45	390
	2011	45	45	20	45	45	45	45	45	45	390
	2012	45	45	20	45	45	45	45	45	45	390
	2013	45	45	20	45	45	45	45	45	45	390
	2014	45	45	20	45	45	45	45	45	45	390
	2015	45	45	20	45	45	45	45	45	45	390
2016	45	45	20	45	45	45	45	45	45	390	
Gill Net (Fall)	1975	2	10	0	6	6	6	6	6	6	48
	1976	0	12	4	8	8	8	8	8	8	64
	1977	0	8	8	8	8	8	8	8	8	64
	1978	0	8	8	8	8	8	8	8	8	64
	1979	0	20	12	20	20	20	20	20	20	152
	1980	0	12	12	12	12	12	12	12	12	96
	1981	0	45	8	45	45	45	45	45	45	323
	1982	0	45	12	45	45	45	45	45	45	327
	1983	0	45	12	45	45	45	45	45	45	327
	1984	0	45	20	45	45	45	45	45	45	335
	1985	0	45	20	45	45	45	45	45	45	335
	1986	45	45	20	45	45	45	45	45	45	380
	1987	45	45	20	45	45	45	45	45	45	380
	1988	45	45	20	45	45	45	45	45	45	380
	1989	45	45	20	45	45	45	45	45	45	380
	1990	45	45	20	45	45	45	45	45	45	380
	1991	45	45	20	45	45	45	45	45	45	380
	1992	45	45	20	45	45	45	45	45	45	380
	1993	45	45	20	45	45	45	45	45	45	380
	1994	45	45	20	45	45	45	45	45	45	380
1995	45	45	20	45	45	45	45	45	45	380	
1996	45	45	20	45	45	45	45	45	45	400	
1997	45	45	20	45	45	45	45	45	45	400	

TABLE A.4.—(Cont.)

Gear	Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a
Gill Net (Fall) (cont.)	1998	45	45	20	45	45	45	45	45	45	400
	1999	45	45	20	45	45	45	45	45	45	400
	2000	45	45	20	45	45	45	45	45	45	390
	2001	45	45	20	45	45	45	45	45	45	390
	2002	45	45	20	45	45	45	45	45	45	390
	2003	45	45	20	45	45	45	45	45	45	390
	2004	45	45	20	45	45	45	45	45	45	390
	2005	45	45	20	45	45	45	45	45	45	390
	2006	45	45	20	45	45	45	45	45	45	390
	2007	45	45	20	45	45	45	45	45	45	390
	2008	45	45	20	45	45	45	45	45	45	390
	2009	45	45	20	45	45	45	45	45	45	390
	2010	45	45	20	45	45	45	45	45	45	390
	2011	45	45	20	45	45	45	45	45	45	390
	2012	45	45	20	45	45	45	45	45	45	390
	2013	45	45	20	45	45	45	45	45	45	390
	2014	45	45	20	45	45	45	45	45	45	390
2015	45	45	20	45	45	45	45	45	45	390	
2016	45	45	20	45	45	45	45	45	45	390	

^a Coastwide number of samples for bag seines and gill nets (spring and fall) include samples collected in Cedar Lakes since 1996.

TABLE A.5.—Number of samples collected by oyster dredge during routine monitoring by bay and year.

Gear	Year	Galveston	Matagorda	Antonio	San Aransas	Coastwide
Oyster Dredge	1984	240	0	0	0	240
	1985	959	0	0	0	959
	1986	672	312	312	672	1,968
	1987	672	312	312	672	1,968
	1988	672	312	312	672	1,968
	1989	672	312	312	672	1,968
	1990	672	312	312	672	1,968
	1991	672	312	312	312	1,604
	1992	360	240	240	240	1,080
	1993	360	240	240	240	1,080
	1994	360	240	240	240	1,080
	1995	360	240	240	240	1,080
	1996	360	240	240	240	1,080
	1997	360	240	240	240	1,080
	1998	360	240	240	240	1,080
	1999	360	240	240	240	1,080
	2000	360	240	240	240	1,080
	2001	360	240	240	240	1,080
	2002	360	240	240	240	1,080
	2003	360	240	240	240	1,080
	2004	360	240	240	240	1,080
	2005	360	240	240	240	1,080
	2006	360	240	240	240	1,080
	2007	360	240	240	240	1,080
	2008	360	240	240	240	1,080
	2009	360	240	240	240	1,080
	2010	360	240	240	240	1,080
	2011	360	240	240	240	1,080
	2012	360	240	240	240	1,080
	2013	360	240	240	240	1,080
2014	360	240	240	240	1,080	
2015	360	240	240	240	1,080	
2016	360	240	240	240	1,080	

TABLE A.6.—Number of Gulf trawl samples collected during routine monitoring in five Gulf areas by year.

Year	Sabine Lake	Galveston Bay	Port O'Connor	Port Aransas	Port Isabel	Coastwide
1985	0	80	80	176	80	416
1986	112	192	192	192	192	880
1987	192	192	192	192	192	960
1988	192	192	192	192	184	952
1989	192	192	192	184	189	949
1990	192	192	192	192	192	960
1991	192	192	192	184	192	952
1992	192	192	192	184	192	952
1993	192	192	192	192	192	960
1994	192	192	187	192	192	955
1995	192	192	192	184	192	952
1996	192	192	192	192	192	960
1997	192	192	188	192	192	956
1998	192	184	184	192	192	944
1999	192	192	192	184	192	952
2000	192	189	192	192	192	957
2001	192	192	192	192	192	960
2002	192	184	192	192	192	952
2003	192	192	192	192	192	960
2004	192	185	192	192	192	953
2005	192	192	192	184	192	952
2006	192	192	191	192	192	959
2007	192	192	192	192	192	960
2008	192	192	192	192	192	960
2009	192	192	192	192	192	960
2010	192	192	192	192	192	960
2011	192	192	192	192	184	952
2012	192	192	192	192	192	960
2013	192	192	192	192	192	960
2014	192	192	192	184	192	952
2015	192	192	192	192	192	960
2016	192	192	192	192	192	960

TABLE A.7.—Bay shoreline distances and surface areas used in calculating weighting factors for coastwide catch rates.

Area	Gill net and ^a bay bag seine	Bay ^b trawl	ICWW ^c trawl	Oyster ^d dredge	Gulf ^e trawl
BAY SYSTEM					
Sabine	75.6	1.220	57.6		
Galveston	411.2	9.408	61.8	126	
Cedar Lakes	25.8				
East Matagorda	64.4	0.101	23.4		
Matagorda	284.8	6.288	27.4	42	
San Antonio	225.2	3.680	27.0	66	
Aransas	263.5	2.251	25.2	55	
Corpus Christi	171.3	3.357 ^f	13.8		
Upper Laguna Madre	222.3	1.534	55.1		
Lower Laguna Madre	252.1	1.153	46.6		
Total	1,996.2	28.992	337.9	289	
GULF AREA					
Sabine					266
Galveston					273
Port O'Connor					277
Port Aransas					257
Port Isabel					248
Total					1,317

^a Equals miles of shoreline (Matlock and Osborn 1982).

TABLE 7.—(Cont.)

- ^b Equals total bay surface area (divided by 10,000) minus 1977 estimate of shallow water area (≤ 1.2 m) (for the upper and lower Laguna Madre) or minus the mean of 1972 and 1977 estimates (for other bays) (Matlock and Osborn 1982).
- ^c Equals nautical miles of ICWW, trawls not done after 1995.
- ^d Equals total number of grids containing oyster reef.
- ^e Equals total number of Gulf trawlable grids.
- ^f No estimate was available for 1977 shallow water area, so 1977 area was estimated as proportion of sampling grid zones that are designated as trawls grids, times the total surface area of the bay.

TABLE A.8.—Finfish and invertebrate species caught in Texas marine waters by TPWD sampling gear during 1975-2016.

Scientific Name	Common Name
Finfish	
<i>Abudefduf saxatilis</i>	Sergeant Major
<i>Abudefduf taurus</i>	Night Sergeant
<i>Acanthocybium solandri</i>	Wahoo
<i>Acanthostracion quadricornis</i>	Scrawled Cowfish
<i>Achirus lineatus</i>	Lined Sole
<i>Adinia xenica</i>	Diamond Killifish
<i>Aetobatis narinari</i>	Spotted Eagle Ray
<i>Agonostomus monticola</i>	Mountain Mullet
<i>Albula vulpes</i>	Bonefish
<i>Alectis ciliaris</i>	African Pompano
<i>Alepisaurus ferox</i>	Longnose Lancetfish
<i>Alopias vulpinus</i>	Thresher Shark
<i>Alosa chrysochloris</i>	Skipjack Herring
<i>Aluterus heudeloti</i>	Dotterel Filefish
<i>Aluterus schoepfi</i>	Orange Filefish
<i>Aluterus scriptus</i>	Scrawled Filefish
<i>Ambloplites rupestris</i>	Rock Bass
<i>Ameiurus melas</i>	Black Bullhead
<i>Ameiurus natalis</i>	Yellow Bullhead
<i>Ameiurus nebulosus</i>	Brown Bullhead
<i>Amia calva</i>	Bowfin
<i>Anarchopterus criniger</i>	Fringed Pipefish
<i>Anchoa hepsetus</i>	Striped Anchovy
<i>Anchoa lyolepis</i>	Dusky Anchovy
<i>Anchoa mitchilli</i>	Bay Anchovy
<i>Anchoa nasuta</i>	Longnose Anchovy
<i>Ancylopsetta dilecta</i>	Three-Eye Flounder
<i>Ancylopsetta ommata</i>	Ocellated Flounder
<i>Anguilla rostrata</i>	American Eel
<i>Anisotremus surinamensis</i>	Black Margate
<i>Anisotremus virginicus</i>	Porkfish
<i>Antennarius radiosus</i>	Singlespot Frogfish
<i>Antennarius striatus</i>	Striated Frogfish
<i>Aplodinotus grunniens</i>	Freshwater Drum
<i>Apogon aurolineatus</i>	Bridle Cardinalfish
<i>Apogon maculatus</i>	Flamefish
<i>Apsilus dentatus</i>	Black Snapper
<i>Archosargus probatocephalus</i>	Sheepshead
<i>Archosargus rhomboidalis</i>	Sea Bream
<i>Ariomma bondi</i>	Silver-Rag

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Ariopsis felis</i>	Hardhead Catfish
<i>Astroscopus y-graecum</i>	Southern Stargazer
<i>Astyanax mexicanus</i>	Mexican Tetra
<i>Atractosteus spatula</i>	Alligator Gar
<i>Auxis thazard</i>	Frigate Mackerel
<i>Bagre marinus</i>	Gafftopsail Catfish
<i>Bairdiella chrysoura</i>	Silver Perch
<i>Balistes capriscus</i>	Gray Triggerfish
<i>Balistes vetula</i>	Queen Triggerfish
<i>Bascanichthys bascanium</i>	Sooty Eel
<i>Bathygobius soporator</i>	Frillfin Goby
<i>Bellator militaris</i>	Horned Searobin
<i>Bembrops anatirostris</i>	Duckbill Flathead
<i>Bembrops gobioides</i>	Goby Flathead
<i>Bodianus pulchellus</i>	Spotfin Hogfish
<i>Bollmannia communis</i>	Ragged Goby
<i>Bothus robinsi</i>	Twospot Flounder
<i>Bregmaceros atlanticus</i>	Antenna Codlet
<i>Brevoortia gunteri</i>	Finescale Menhaden
<i>Brevoortia patronus</i>	Gulf Menhaden
<i>Brotula barbata</i>	Bearded Brotula
<i>Calamus bajonado</i>	Jolthead Porgy
<i>Calamus calamus</i>	Saucereye Porgy
<i>Calamus leucosteus</i>	Whitebone Porgy
<i>Calamus nodosus</i>	Knobbed Porgy
<i>Calamus penna</i>	Sheepshead Porgy
<i>Cantherhines pullus</i>	Orangespotted Filefish
<i>Canthidermis maculata</i>	Rough Triggerfish
<i>Canthidermis sufflamen</i>	Ocean Triggerfish
<i>Caranx bartholomaei</i>	Yellow Jack
<i>Caranx crysos</i>	Blue Runner
<i>Caranx hippos</i>	Crevalle Jack
<i>Caranx latus</i>	Horse-Eye Jack
<i>Caranx lugubris</i>	Black Jack
<i>Caranx ruber</i>	Bar Jack
<i>Carapus bermudensis</i>	Pearlfish
<i>Carassius auratus</i>	Goldfish
<i>Carcharhinus acronotus</i>	Blacknose Shark
<i>Carcharhinus brevipinna</i>	Spinner Shark
<i>Carcharhinus falciformis</i>	Silky Shark

Table A.8. (Cont.)

Scientific Name	Common Name
<i>Carcharhinus isodon</i>	Finetooth Shark
<i>Carcharhinus leucas</i>	Bull Shark
<i>Carcharhinus limbatus</i>	Blacktip Shark
<i>Carcharhinus longimanus</i>	Oceanic Whitetip Shark
<i>Carcharhinus obscurus</i>	Dusky Shark
<i>Carcharhinus plumbeus</i>	Sandbar Shark
<i>Carcharhinus porosus</i>	Smalltail Shark
<i>Carcharhinus signatus</i>	Night Shark
<i>Carcharias taurus</i>	Sand Tiger
<i>Caulolatilus cyanops</i>	Blackline Tilefish
<i>Centropomus mexicanus</i>	Largescale Fat Snook
<i>Centropomus parallelus</i>	Fat Snook
<i>Centropomus undecimalis</i>	Common Snook
<i>Centropristis ocyurus</i>	Bank Sea Bass
<i>Centropristis philadelphica</i>	Rock Sea Bass
<i>Cephalopholis cruentata</i>	Graysby
<i>Cephalopholis fulva</i>	Coney
<i>Cetengraulis edentulus</i>	Atlantic Anchoveta
<i>Chaetodipterus faber</i>	Atlantic Spadefish
<i>Chaetodon ocellatus</i>	Spotfin Butterflyfish
<i>Chaetodon sedentarius</i>	Reef Butterflyfish
<i>Chasmodes bosquianus</i>	Striped Blenny
<i>Cheilopogon cyanopterus</i>	Margined Flyingfish
<i>Cheilopogon furcatus</i>	Spotfin Flyingfish
<i>Chilomycterus schoepfii</i>	Striped Burrfish
<i>Chlorophthalmus agassizi</i>	Shortnose Greeneye
<i>Chloroscombrus chrysurus</i>	Atlantic Bumper
<i>Chromis insolata</i>	Sunshinefish
<i>Chromis multilineata</i>	Brown Chromis
<i>Cichlasoma cyanoguttatum</i>	Rio Grande Cichlid
<i>Citharichthys cornutus</i>	Horned Whiff
<i>Citharichthys macrops</i>	Spotted Whiff
<i>Citharichthys spilopterus</i>	Bay Whiff
<i>Conodon nobilis</i>	Barred Grunt
<i>Coryphaena equiselis</i>	Pompano Dolphinfish
<i>Coryphaena hippurus</i>	Dolphin
<i>Ctenogobius boleosoma</i>	Darter Goby
<i>Ctenogobius shufeldti</i>	Freshwater Goby
<i>Ctenogobius stigmaturus</i>	Spottail Goby
<i>Ctenopharyngodon idella</i>	Grass Carp
<i>Cyclopsetta chittendeni</i>	Mexican Flounder
<i>Cyclopsetta fimbriata</i>	Spotfin Flounder
<i>Cynoscion arenarius</i>	Sand Seatrout

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Cynoscion nebulosus</i>	Spotted Seatrout
<i>Cynoscion nothus</i>	Silver Seatrout
<i>Cynoscion sp.</i>	(Seatrout - Unidentified)
<i>Cyprinodon variegatus</i>	Sheepshead Minnow
<i>Cyprinus carpio</i>	Common Carp
<i>Dactylopterus volitans</i>	Flying Gurnard
<i>Dasyatis americana</i>	Southern Stingray
<i>Dasyatis centroura</i>	Roughtail Stingray
<i>Dasyatis sabina</i>	Atlantic Stingray
<i>Dasyatis say</i>	Bluntnose Stingray
<i>Decapterus punctatus</i>	Round Scad
<i>Decodon puellaris</i>	Red Hogfish
<i>Dermatolepis inermis</i>	Marbled Grouper
<i>Diapterus auratus</i>	Irish Pompano
<i>Dibranchius atlanticus</i>	Atlantic Batfish
<i>Diodon hystrix</i>	Porcupinefish
<i>Diplectrum bivittatum</i>	Dwarf Sand Perch
<i>Diplectrum formosum</i>	Sand Perch
<i>Diplodus holbrooki</i>	Spottail Pinfish
<i>Dipturus olseni</i>	Spreadfin Skate
<i>Dormitator maculatus</i>	Fat Sleeper
<i>Dorosoma cepedianum</i>	Gizzard Shad
<i>Dorosoma petenense</i>	Threadfin Shad
<i>Echeneis naucrates</i>	Sharksucker
<i>Echeneis neucratoides</i>	Whitefin Sharksucker
<i>Echiophis intertinctus</i>	Spotted Spoon-Nose Eel
<i>Echiophis punctifer</i>	Snapper Eel
<i>Elagatis bipinnulata</i>	Rainbow Runner
<i>Eleotris amblyopsis</i>	Largescaled Spinycheek Sleeper
<i>Elops saurus</i>	Ladyfish
<i>Engyophrys senta</i>	Spiny Flounder
<i>Epinephelus adscensionis</i>	Rock Hind
<i>Epinephelus flavolimbatus</i>	Yellowedge Grouper
<i>Epinephelus nigritus</i>	Warsaw Grouper
<i>Epinephelus niveatus</i>	Snowy Grouper
<i>Erotelis smaragdus</i>	Emerald Sleeper
<i>Etropus crossotus</i>	Fringed Flounder
<i>Etrumeus teres</i>	Round Herring
<i>Eucinostomus argenteus</i>	Spotfin Mojarra
<i>Eucinostomus gula</i>	Silver Jenny
<i>Eucinostomus lefroyi</i>	Mottled Mojarra
<i>Eucinostomus melanopterus</i>	Flagfin Mojarra
<i>Evorthodus lyricus</i>	Lyre Goby

TABLE A.8.—(Cont.)

Scientific Name	Common Name
Family Anguillidae	Family Freshwater Eels
Family Atherinidae	Family Silversides
Family Balistidae	Family Leatherjackets
Family Blenniidae	Family Combtooth Blennies
Family Bothidae	Family Lefteye Flounders
Family Carangidae	Family Jacks
Family Carcharhinidae	Family Requiem Sharks
Family Catostomidae	Family Suckers
Family Centrarchidae	Family Sunfishes
Family Clupeidae	Family Herrings
Family Cyprinidae	Family Carps And Minnows
Family Cyprinodontidae	Family Killifishes
Family Dasyatidae	Family Stingrays
Family Elopidae	Family Tarpons
Family Engraulidae	Family Anchovies
Family Ephippidae	Family Spadefishes
Family Gerreidae	Family Mojarras
Family Gobiidae	Family Gobies
Family Haemulidae	Family Grunts
Family Labridae	Family Wrasses
Family Lepisosteidae	Family Gars
Family Lutjanidae	Family Snappers
Family Mugilidae	Family Mulletts
Family Mullidae	Family Goatfishes
Family Ogcocephalidae	Family Batfishes
Family Ophichthidae	Family Snake Eels
Family Ophidiidae	Family Cusk-Eels
Family Percichthyidae	Family Temperate Basses
Family Poeciliidae	Family Livebearers
Family Pomacentridae	Family Damselfishes
Family Sciaenidae	Family Drums
Family Scombridae	Family Mackerels
Family Serranidae	Family Sea Basses
Family Soleidae	Family Soles
Family Sphyraenidae	Family Barracudas
Family Sphyrnidae	Family Hammerhead Sharks
Family Syngnathidae	Family Pipefishes
Family Synodontidae	Family Lizardfishes
Family Tetraodontidae	Family Puffers
Family Triglidae	Family Searobins
<i>Fundulus chrysotus</i>	Golden Topminnow
<i>Fundulus grandis</i>	Gulf Killifish
<i>Fundulus pulvereus</i>	Bayou Killifish

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Fundulus similis</i>	Longnose Killifish
<i>Fundulus sp.</i>	(Killifish - Unidentified)
<i>Gambusia affinis</i>	Western Mosquitofish
<i>Gerres cinereus</i>	Yellowfin Mojarra
<i>Gnathagnus egregius</i>	Freckled Stargazer
<i>Gobiesox punctulatus</i>	Stippled Clingfish
<i>Gobiesox strumosus</i>	Skilletfish
<i>Gobioides broussoneti</i>	Violet Goby
<i>Gobiomorus dormitor</i>	Bigmouth Sleeper
<i>Gobionellus boleosoma</i>	Darter Goby
<i>Gobionellus oceanicus</i>	Highfin Goby
<i>Gobionellus shufeldti</i>	Freshwater Goby
<i>Gobiosoma bosc</i>	Naked Goby
<i>Gobiosoma robustum</i>	Code Goby
<i>Gunterichthys longipenis</i>	Gold Brotula
<i>Gymnachirus texae</i>	Fringed Sole
<i>Gymnothorax moringa</i>	Spotted Moray
<i>Gymnothorax nigromarginatus</i>	Blackedge Moray
<i>Gymnura micrura</i>	Smooth Butterfly Ray
<i>Haemulon aurolineatum</i>	Tomtate
<i>Halieutichthys aculeatus</i>	Pancake Batfish
<i>Harengula jaguana</i>	Scaled Sardine
<i>Hemicaranx amblyrhynchus</i>	Bluntnose Jack
<i>Hemipteronotus novacula</i>	Pearly Razorfish
<i>Hemiramphus balao</i>	Balao
<i>Hemiramphus brasiliensis</i>	Ballyhoo
<i>Hildebrandia flava</i>	Yellow Conger
<i>Hippocampus erectus</i>	Lined Seahorse
<i>Hippocampus zosterae</i>	Dwarf Seahorse
<i>Histrio histrio</i>	Sargassumfish
<i>Hoplunnis tenuis</i>	Spotted Pike-Conger
<i>Hypleurochilus geminatus</i>	Crested Blenny
<i>Hyporhamphus unifasciatus</i>	Silverstripe Halfbeak
<i>Hypsoblennius hentz</i>	Feather Blenny
<i>Hypsoblennius ionthas</i>	Freckled Blenny
<i>Ictalurus furcatus</i>	Blue Catfish
<i>Ictalurus punctatus</i>	Channel Catfish
<i>Ictiobus bubalus</i>	Smallmouth Buffalo
<i>Ictiobus cyprinellus</i>	Bigmouth Buffalo
<i>Jenkinsia lamprotaenia</i>	Dwarf Herring
<i>Kathetostoma albigutta</i>	Lancer Stargazer
<i>Kyphosus incisor</i>	Yellow Chub
<i>Kyphosus sectatrix</i>	Bermuda Chub

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Labrisomus nuchipinnis</i>	Hairy Blenny
<i>Lachnolaimus maximus</i>	Hogfish
<i>Lactophrys quadricornis</i>	Scrawled Cowfish
<i>Lagocephalus laevigatus</i>	Smooth Puffer
<i>Lagodon rhomboides</i>	Pinfish
<i>Larimus fasciatus</i>	Banded Drum
<i>Leiostomus xanthurus</i>	Spot
<i>Lepisosteus oculatus</i>	Spotted Gar
<i>Lepisosteus osseus</i>	Longnose Gar
<i>Lepisosteus platostomus</i>	Shortnose Gar
<i>Lepisosteus spatula</i>	Alligator Gar
<i>Lepomis cyanellus</i>	Green Sunfish
<i>Lepomis gulosus</i>	Warmouth
<i>Lepomis macrochirus</i>	Bluegill
<i>Lepomis megalotis</i>	Longear Sunfish
<i>Lepomis microlophus</i>	Redear Sunfish
<i>Lepophidium brevibarbe</i>	Blackedge Cusk-Eel
<i>Lobotes surinamensis</i>	Tripletail
<i>Lucania parva</i>	Rainwater Killifish
<i>Lutjanus analis</i>	Mutton Snapper
<i>Lutjanus apodus</i>	Schoolmaster
<i>Lutjanus campechanus</i>	Red Snapper
<i>Lutjanus griseus</i>	Gray Snapper
<i>Lutjanus jocu</i>	Dog Snapper
<i>Lutjanus synagris</i>	Lane Snapper
<i>Lutjanus vivanus</i>	Silk Snapper
<i>Megalops atlanticus</i>	Tarpon
<i>Membras martinica</i>	Rough Silverside
<i>Menidia beryllina</i>	Inland Silverside
<i>Menidia clarkhubbsi</i>	Texas Silverside
<i>Menidia peninsulae</i>	Tidewater Silverside
<i>Menticirrhus americanus</i>	Southern Kingfish
<i>Menticirrhus littoralis</i>	Gulf Kingfish
<i>Menticirrhus saxatilis</i>	Northern Kingfish
<i>Microgobius gulosus</i>	Clown Goby
<i>Microgobius thalassinus</i>	Green Goby
<i>Micropogonias undulatus</i>	Atlantic Croaker
<i>Micropterus salmoides</i>	Largemouth Bass
<i>Monacanthus ciliatus</i>	Fringed Filefish
<i>Monacanthus hispidus</i>	Planehead Filefish
<i>Monacanthus setifer</i>	Pygmy Filefish
<i>Morone X</i>	Hybrid Bass (Striped X White)
<i>Morone americana</i>	White Perch

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Morone chrysops</i>	White Bass
<i>Morone mississippiensis</i>	Yellow Bass
<i>Morone saxatilis</i>	Striped Bass
<i>Mugil cephalus</i>	Striped Mullet
<i>Mugil curema</i>	White Mullet
<i>Mullus auratus</i>	Red Goatfish
<i>Mustelus canis</i>	Smooth Dogfish
<i>Mustelus norrisi</i>	Florida Smoothhound
<i>Mycteroperca bonaci</i>	Black Grouper
<i>Mycteroperca microlepis</i>	Gag
<i>Mycteroperca phenax</i>	Scamp
<i>Mycteroperca rubra</i>	Comb Grouper
<i>Myrophis punctatus</i>	Speckled Worm Eel
<i>Narcine brasiliensis</i>	Lesser Electric Ray
<i>Negaprion brevirostris</i>	Lemon Shark
<i>Neomerinthe hemingwayi</i>	Spinycheek Scorpionfish
<i>Notemigonus crysoleucas</i>	Golden Shiner
<i>Ogcocephalus corniger</i>	Longnose Batfish
<i>Ogcocephalus nasutus</i>	Shortnose Batfish
<i>Ogcocephalus pantostictus</i>	Spotted Batfish
<i>Ogcocephalus parvus</i>	Roughback Batfish
<i>Ogcocephalus radiatus</i>	Polka-Dot Batfish
<i>Ogcocephalus sp.</i>	(Batfish - Unidentified)
<i>Oligoplites saurus</i>	Leatherjacket
<i>Ophichthus gomesi</i>	Shrimp Eel
<i>Ophichthus ophis</i>	Spotted Snake Eel
<i>Ophichthus puncticeps</i>	Palespotted Eel
<i>Ophichthus rex</i>	King Snake Eel
<i>Ophidion grayi</i>	Blotched Cusk-Eel
<i>Ophidion holbrooki</i>	Bank Cusk-Eel
<i>Ophidion marginatum</i>	Striped Cusk-Eel
<i>Ophidion welshi</i>	Crested Cusk-Eel
<i>Opisthonema oglinum</i>	Atlantic Thread Herring
<i>Opsanus beta</i>	Gulf Toadfish
<i>Opsanus pardus</i>	Leopard Toadfish
<i>Orthopristis chrysoptera</i>	Pigfish
<i>Parablennius marmoreus</i>	Seaweed Blenny
<i>Paraconger caudilimbatus</i>	Margintail Conger
<i>Paralichthys albigutta</i>	Gulf Flounder
<i>Paralichthys lethostigma</i>	Southern Flounder
<i>Paralichthys sp.</i>	(Flounder - Unidentified)
<i>Paralichthys squamilentus</i>	Broad Flounder
<i>Peprius alepidotus</i>	Harvestfish

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Peprilus burti</i>	Gulf Butterfish
<i>Phaeoptyx conklini</i>	Freckled Cardinalfish
<i>Platybelone argalus</i>	Keeltail Needlefish
<i>Poecilia formosa</i>	Amazon Molly
<i>Poecilia latipinna</i>	Sailfin Molly
<i>Pogonias cromis</i>	Black Drum
<i>Polydactylus octonemus</i>	Atlantic Threadfin
<i>Pomacentrus fuscus</i>	Dusky Damselfish
<i>Pomacentrus variabilis</i>	Cocoa Damselfish
<i>Pomadasys crocro</i>	Burro Grunt
<i>Pomatomus saltatrix</i>	Bluefish
<i>Pomoxis annularis</i>	White Crappie
<i>Pomoxis nigromaculatus</i>	Black Crappie
<i>Pontinus longispinis</i>	Longspine Scorpionfish
<i>Porichthys plectrodon</i>	Atlantic Midshipman
<i>Priacanthus arenatus</i>	Bigeye
<i>Prionotus longispinosus</i>	Bigeye Searobin
<i>Prionotus martis</i>	Barred Searobin
<i>Prionotus ophryas</i>	Bandtail Searobin
<i>Prionotus paralatus</i>	Mexican Searobin
<i>Prionotus roseus</i>	Bluespotted Searobin
<i>Prionotus rubio</i>	Blackwing Searobin
<i>Prionotus scitulus</i>	Leopard Searobin
<i>Prionotus stearnsi</i>	Shortwing Searobin
<i>Prionotus tribulus</i>	Bighead Searobin
<i>Pristigenys alta</i>	Short Bigeye
<i>Pristipomoides aquilonaris</i>	Wenchman
<i>Pristis pectinata</i>	Smalltooth Sawfish
<i>Pylodictis olivaris</i>	Flathead Catfish
<i>Rachycentron canadum</i>	Cobia
<i>Raja eglanteria</i>	Clearnose Skate
<i>Raja texana</i>	Roundel Skate
<i>Remora remora</i>	Remora
<i>Rhinobatos lentiginosus</i>	Atlantic Guitarfish
<i>Rhinoptera bonasus</i>	Cownose Ray
<i>Rhizoprionodon terraenovae</i>	Atlantic Sharpnose Shark
<i>Rhomboplites aurorubens</i>	Vermilion Snapper
<i>Sardinella aurita</i>	Spanish Sardine
<i>Saurida brasiliensis</i>	Largescale Lizardfish
<i>Saurida caribbaea</i>	Smallscale Lizardfish
<i>Scartella cristata</i>	Molly Miller
<i>Sciaenops ocellatus</i>	Red Drum
<i>Scomber japonicus</i>	Chub Mackerel

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Scomberomorus cavalla</i>	King Mackerel
<i>Scomberomorus maculatus</i>	Spanish Mackerel
<i>Scomberomorus regalis</i>	Cero
<i>Scomberomorus</i> sp.	(Mackerel - Unidentified)
<i>Scorpaena brasiliensis</i>	Barbfish
<i>Scorpaena calcarata</i>	Smoothhead Scorpionfish
<i>Scorpaena plumieri</i>	Spotted Scorpionfish
<i>Scyliorhinus retifer</i>	Chain Dogfish
<i>Selar crumenophthalmus</i>	Bigeye Scad
<i>Selene setapinnis</i>	Atlantic Moonfish
<i>Selene vomer</i>	Lookdown
<i>Seriola dumerili</i>	Greater Amberjack
<i>Seriola zonata</i>	Banded Rudderfish
<i>Serraniculus pumilio</i>	Pygmy Sea Bass
<i>Serranus atrobranchus</i>	Blackear Bass
<i>Serranus subligarius</i>	Belted Sandfish
<i>Sparisoma radians</i>	Bucktooth Parrotfish
<i>Sphoeroides parvus</i>	Least Puffer
<i>Sphoeroides spengleri</i>	Bandtail Puffer
<i>Sphyraena barracuda</i>	Great Barracuda
<i>Sphyraena guachancho</i>	Guaguanche
<i>Sphyrna lewini</i>	Scalloped Hammerhead
<i>Sphyrna mokarran</i>	Great Hammerhead
<i>Sphyrna tiburo</i>	Bonnethead
<i>Sphyrna tudes</i>	Smalleye Hammerhead
<i>Stellifer lanceolatus</i>	Star Drum
<i>Stenotomus caprinus</i>	Longspine Porgy
<i>Strongylura marina</i>	Atlantic Needlefish
<i>Syacium gunteri</i>	Shoal Flounder
<i>Syacium papillosum</i>	Dusky Flounder
<i>Symphurus civitatus</i>	Offshore Tonguefish
<i>Symphurus diomedianus</i>	Spottedfin Tonguefish
<i>Symphurus parvus</i>	Pygmy Tonguefish
<i>Symphurus plagiusa</i>	Blackcheek Tonguefish
<i>Symphurus urospilus</i>	Spottail Tonguefish
<i>Syngnathus floridae</i>	Dusky Pipefish
<i>Syngnathus louisianae</i>	Chain Pipefish
<i>Syngnathus pelagicus</i>	Sargassum Pipefish
<i>Syngnathus scovelli</i>	Gulf Pipefish
<i>Synodus foetens</i>	Inshore Lizardfish
<i>Synodus poeyi</i>	Offshore Lizardfish
<i>Tilapia aurea</i>	Blue Tilapia
<i>Tilapia</i> sp.	(Tilapia - Unidentified)

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Trachinocephalus myops</i>	Snakefish
<i>Trachinotus carolinus</i>	Florida Pompano
<i>Trachinotus falcatus</i>	Permit
<i>Trachinotus goodei</i>	Palometa
<i>Trachurus lathami</i>	Rough Scad
<i>Trichiurus lepturus</i>	Atlantic Cutlassfish
<i>Trichopsetta ventralis</i>	Sash Flounder
<i>Trinectes maculatus</i>	Hogchoker
<i>Umbrina coroides</i>	Sand Drum
<i>Upeneus parvus</i>	Dwarf Goatfish
<i>Uroconger syringinus</i>	Threadtail Conger
<i>Urophycis cirrata</i>	Gulf Hake
<i>Urophycis floridana</i>	Southern Hake
<i>Xanthichthys ringens</i>	Sargassum Triggerfish
Invertebrates	
<i>Acetes americanus</i>	Sergestid shrimp
<i>Agriopoma texasianum</i>	Texas venus
<i>Albunea gibbesii</i>	Surf mole crab
<i>Albunea paretii</i>	Beach mole crab
<i>Alpheus armillatus</i>	Banded snapping shrimp
<i>Alpheus estuariensis</i>	Estuarine snapping shrimp
<i>Alpheus formosus</i>	Striped snapping shrimp
<i>Alpheus heterochaelis</i>	Bigclaw snapping shrimp
<i>Amaea mitchelli</i>	Mitchell's wentletrap
<i>Anachis sp.</i>	(Dovesnail - unidentified)
<i>Anadara brasiliiana</i>	Incongruous ark
<i>Anadara floridana</i>	Cut-ribbed ark
<i>Anadara ovalis</i>	Blood ark
<i>Anadara transversa</i>	Transverse ark
<i>Anasimus latus</i>	Stilt spider crab
<i>Anatina anatina</i>	Smooth duckclam
<i>Anomalocardia auberiana</i>	Pointed venus
<i>Anomia simplex</i>	Common jingle
<i>Aplysia brasiliiana</i>	Mottled seahare
<i>Aplysia sp.</i>	(Seahare - unidentified)
<i>Arbacia punctulata</i>	Red sea urchin
<i>Arca imbricata</i>	Mossy ark
<i>Architectonica nobilis</i>	Common sundial
<i>Arcinella cornuta</i>	Florida spiny jewelbox
<i>Arenaeus cribrarius</i>	Speckled swimming crab
<i>Argopecten gibbus</i>	Atlantic calico scallop
<i>Argopecten irradians</i>	Bay scallop

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Armina wattla</i>	(<i>Tigrina armina</i>)
<i>Astropecten duplicatus</i>	Two-spined starfish
<i>Atrina serrata</i>	Sawtooth penshell
<i>Aurelia aurita</i>	Moon jellyfish
<i>Barbatia candida</i>	White-beard ark
<i>Barbatia tenera</i>	Delicaye ark
<i>Beroe ovata</i>	Sea walnut
<i>Brachidontes exustus</i>	Scorched mussel
<i>Brissopsis alta</i>	Heart urchin
<i>Bulla striata</i>	Striate bubble
<i>Bursatella leachii pleii</i>	Ragged seahare
<i>Busycon sinistrum</i>	Lightning whelk
<i>Busycotypus spiratus</i>	Pearwhelk
<i>Calappa flammea</i>	Flame box crab
<i>Calappa ocellata</i>	Ocellated box crab
<i>Calappa sulcata</i>	Yellow box crab
<i>Callinassa louisianensis</i>	Gulf estuarine ghost shrimp
<i>Callichirus islagrande</i>	Beach ghost shrimp
<i>Callinectes marginatus</i>	(Sargassum crab)
<i>Callinectes sapidus</i>	Blue crab
<i>Callinectes similis</i>	Lesser blue crab
<i>Cancellaria reticulata</i>	Common nutmeg
<i>Cantharus cancellarius</i>	Cancellate cantharus
<i>Cerithidea pliculosa</i>	Plicate hornsnail
<i>Cerithiopsis emersonii</i>	Awl miniature cerith
<i>Cerithium lutosum</i>	Variable cerith
<i>Chaetopterus variopedatus</i>	Parchment worm
<i>Chasmocarcinus mississippiensis</i>	Roughwrist soft crab
<i>Chione cancellata</i>	Cross-barred venus
<i>Chiropsalmus quadrumanus</i>	Sea wasp
<i>Chrysaora quinquecirrha</i>	Sea nettle
<i>Claassenia sp.</i>	(Stonefly nymph - unidentified)
Class Ascidiacea	Class sessile tunicates
Class Asteroidea	Class starfish
Class Cephalopoda	Class squids and octopuses
Class Holothuroidea	Class sea cucumbers
Class Malacostraca	(Malacostracan crustacean)
Class Ophiuroidea	Class brittle stars
Class Polychaeta	Polychaete worms
Class Scyphozoa	Class jellyfish
<i>Clibanarius vittatus</i>	Thinstripe hermit
<i>Comus stimpsoni</i>	Yellow cone
<i>Corbula swiftiana</i>	Radial-ridged corbula

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Costoanachis avara</i>	Greedy dovesnail
<i>Costoanachis semiplicata</i>	Gulf dovesnail
<i>Crassostrea virginica</i>	Eastern oyster
<i>Crepidula convexa</i>	Convex slippersnail
<i>Crepidula fornicata</i>	Common Atlantic slippersnail
<i>Crepidula plana</i>	Eastern white slippersnail
<i>Cyclinella tenuis</i>	Thin cyclinella
<i>Cyphoma gibbosum</i>	Flamingo tongue
<i>Cyrtopleura costata</i>	Angelwing
<i>Dardanus fucosus</i>	Bareye hermit
<i>Dinocardium robustum</i>	Atlantic giant cockle
<i>Distorsio clathrata</i>	Atlantic distorsio
<i>Donax variabilis</i>	Variable coquina
<i>Dosinia discus</i>	Disk dosinia
<i>Dromidia antillensis</i>	Hairy sponge crab
<i>Dyspanopeus texana</i>	Gulf grassflat crab
<i>Echinometra lucunter</i>	Rock-boring urchin
<i>Emerita portoricensis</i>	Puerto Rican sand crab
<i>Ensis minor</i>	Minor jackknife
<i>Euceramus praelongus</i>	Olivepit porcelain crab
<i>Eurypanopeus abbreviatus</i>	Lobate mud crab
<i>Eurypanopeus depressus</i>	Flatback mud crab
<i>Exhippolysmata oplophoroides</i>	Redleg humpback shrimp
Family Alpheidae	Family snapping shrimps
Family Amphinomidae	Family bristle worms
Family Astacidae	Family crayfishes
Family Cerithiidae	Family ceriths (snails)
Family Loliginidae	Family long squids
Family Majidae	Family spider crabs
Family Mysidae	Family mysid shrimp
Family Neritidae	Family nerite (snails)
Family Ogyrididae	Family longeye shrimps
Family Paguridae	Family hermit crabs
Family Penaeidae	Family penaeid shrimp
Family Pinnotheridae	Family pinnotherid crabs
Family Porcellanidae	Family porcelain crabs
Family Portunidae	Family portunid crabs
Family Ranellidae	Family tritons
Family Tellinidae	Family tellin shells
Family Unionidae	Family freshwater clams
Family Xanthidae	Family mud crabs
<i>Farfantepenaeus aztecus</i>	Brown shrimp
<i>Farfantepenaeus duorarum</i>	Pink shrimp

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Fasciolaria liliun liliun</i>	Banded tulip
<i>Gammarus mucronatus</i>	(Beach hopper amphipod)
<i>Glypturus acanthochirus</i>	Ghost shrimp
<i>Haminoea antillarum</i>	Antilles glassy-bubble
<i>Haminoea succinea</i>	Amber glassy-bubble
<i>Hemiphoris elongata</i>	Brittle star (banded)
<i>Hepatus epheliticus</i>	Calico box crab
<i>Hepatus pudibundus</i>	Flecked box crab
<i>Heterocrypta granulata</i>	Smooth elbow crab
<i>Hexapanopeus angustifrons</i>	Smooth mud crab
<i>Hexapanopeus paulensis</i>	Knobbed mud crab
<i>Hexaplex fulvescens</i>	Giant eastern murex
<i>Hippolyte zostericola</i>	Zostera shrimp
<i>Hypoconcha arcuata</i>	Granulate shellback shrimp
<i>Hypoconcha sabulosa</i>	Shellback crab (Dromiid)
<i>Iliacantha intermedia</i>	Granulose purse crab
<i>Ischadium recurvum</i>	Hooked mussel
<i>Isocheles wurdemanni</i>	Surf hermit
<i>Isonychia sp.</i>	(Mayfly nymph - unidentified)
<i>Laevicardium mortoni</i>	Yellow eggcockle
<i>Latreutes fucorum</i>	Slender sargassum shrimp
<i>Latreutes parvulus</i>	Sargassum shrimp
<i>Leander tenuicornis</i>	Brown grass shrimp
<i>Leiolambrus nitidus</i>	White elbow crab
<i>Lepidopa benedicti</i>	(Gulf mole crab)
<i>Libinia dubia</i>	Longnose spider crab
<i>Libinia emarginata</i>	Portly spider crab
<i>Lirophora clenchi</i>	Thick-ringed venus
<i>Litopenaeus setiferus</i>	White shrimp
<i>Littoraria irrorata</i>	Marsh periwinkle
<i>Loligo pealeii</i>	Longfin inshore squid
<i>Loligo pleii</i>	Slender inshore squid
<i>Lolliguncula brevis</i>	Atlantic brief squid
<i>Lucifer faxoni</i>	Sergestid shrimp
<i>Lucina pectinata</i>	Thick lucine
<i>Luidia alternata</i>	Banded sea star
<i>Luidia clathrata</i>	Large sea star
<i>Lysiosquilla scabricauda</i>	(Giant) mantis shrimp
<i>Lysmata wurdemanni</i>	Peppermint shrimp
<i>Lytechinus variegatus</i>	Short spined sea urchin
<i>Macoma brevifrons</i>	Short macoma
<i>Macrobrachium acanthurus</i>	Cinnamon river shrimp
<i>Macrobrachium ohione</i>	Ohio shrimp

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Macrocallista maculata</i>	Calico clam
<i>Mactrotoma fragilis</i>	Fragile surfclam
<i>Melampus bidentatus</i>	Eastern melampus
<i>Mellita quinquiesperforata</i>	Five-lunuled sand dollar
<i>Menippe adina</i>	Gulf stone crab
<i>Mercenaria campechiensis</i>	Southern quahog
<i>Mercenaria campechiensis texana</i>	Texas quahog
<i>Metoporphaphis calcarata</i>	False arrow crab
<i>Microphilis atra</i>	Brittle star (grey)
<i>Mnemiopsis mccradyi</i>	Phosphorus jelly
<i>Moira atropus</i>	Mud-burrowing heart urchin
<i>Molgula manhattensis</i>	Sea squirt
<i>Mulinia lateralis</i>	Dwarf surf clam
<i>Nassarius vibex</i>	Bruised nassa
<i>Nemopsis bachei</i>	(Hydromedusa)
<i>Neritina usnea</i>	Olive nerite
<i>Neritina virginea</i>	Virgin nerite
<i>Neverita duplicata</i>	Shark eye
<i>Noetia ponderosa</i>	Ponderous ark
<i>Octopus vulgaris</i>	Common octopus
<i>Oculina diffusa</i>	Ivory coral
<i>Ocypode quadrata</i>	Atlantic ghost crab
<i>Oliva sayana</i>	Lettered olive
<i>Ophiolepis elegans</i>	Brittle star
<i>Orchestia grillus</i>	Beach flea (amphipod)
Order Actiniaria	Order anemones
Order Gorgonacea	Order whip corals and sea feathers
Order Hydroidea	Order hydroids
Order Isopoda	Order isopods
Order Nudibranchia	Order nudibranchs
Order Pennatulacea	Order sea pens and pansies
<i>Ostrea equestris</i>	Crested oyster
<i>Ovalipes floridanus</i>	Florida lady crab
<i>Paguristes hummi</i>	(Blue-spot hermit crab)
<i>Pagurus annulipes</i>	(Brown-banded hermit crab)
<i>Pagurus brevidactylus</i>	Short-fingered hermit
<i>Pagurus impressus</i>	Dimpled hermit
<i>Pagurus longicarpus</i>	Longwrist hermit
<i>Pagurus pollicaris</i>	Flatelaw hermit
<i>Palaemonetes pugio</i>	Daggerblade grass shrimp
<i>Palaemonetes sp.</i>	(Grass shrimp - unidentified)
<i>Palaemonetes vulgaris</i>	Marsh grass shrimp
<i>Panopeus simpsoni</i>	Oystershell mud crab

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Paranthus rapiformis</i>	Onion anemone
<i>Parapenaeus politus</i>	Rose shrimp
<i>Parthenope serrata</i>	Sawtooth elbow crab
<i>Pelia mutica</i>	Cryptic teardrop crab
<i>Perna perna</i>	Mexilhao mussel
<i>Persephona crinita</i>	Pink purse crab
<i>Persephona mediterranea</i>	Mottled purse crab
<i>Petrochirus diogenes</i>	Giant hermit
<i>Petrolisthes armatus</i>	Green porcelain crab
<i>Phalium granulatum</i>	Scotch bonnet
Phylum Annelida	Phylum annelid worms
Phylum Bryozoa	Phylum bryozoans
Phylum Ctenophora	Phylum ctenophores
Phylum Mollusca	Phylum mollusks
Phylum Nemertinea	Phylum nemerteans
Phylum Porifera	Phylum sponges
<i>Physalia physalis</i>	Portuguese man-of-war
<i>Pinnotheres maculatus</i>	Squatter pea crab
<i>Pleuroploca gigantea</i>	Horse conch
<i>Podochela riisei</i>	Longfinger neck crab
<i>Podochela sidneyi</i>	Shortfinger neck crab
<i>Pollia tinctoria</i>	Tinted cantharus
<i>Polymesoda caroliniana</i>	Carolina marshclam
<i>Polymesoda maritima</i>	Southern marshclam
<i>Porcellana sayana</i>	Spotted porcelain crab
<i>Porcellana sigsbeiana</i>	triped porcelain crab
<i>Portunus anceps</i>	Delicate swimming crab
<i>Portunus gibbesii</i>	Iridescent swimming crab
<i>Portunus sayi</i>	Sargassum swimming crab
<i>Portunus spinicarpus</i>	Longspine swimming crab
<i>Portunus spinimanus</i>	Blotched swimming crab
<i>Portunus ventralis</i>	(Portunid swimming crab)
<i>Procambarus clarkii</i>	Red swamp crawfish
<i>Puberella intapurpurea</i>	Lady-in-waiting venus
<i>Rangia cuneata</i>	Atlantic rangia
<i>Rangia flexuosa</i>	Brown rangia
<i>Raninoides louisianensis</i>	Gulf frog crab
<i>Renilla mulleri</i>	Sea pansy
<i>Rhithropanopeus harrisi</i>	Harris mud crab
<i>Scyllaea pelagica</i>	Sargassum nudibranch
<i>Sesarma reticulatum</i>	Heavy marsh crab
<i>Sicyonia brevirostris</i>	Brown rock shrimp
<i>Sicyonia dorsalis</i>	Lesser rock shrimp

TABLE A.8.—(Cont.)

Scientific Name	Common Name
<i>Sicyonia stimpsoni</i>	Eyespot rock shrimp
<i>Sicyonia typica</i>	Kinglet rock shrimp
<i>Simnialena marferula</i>	Sea-whip simnia
<i>Simum perspectivum</i>	White baby ear
<i>Siphonaria pectinata</i>	Striped false limpet
<i>Solariorbis blakei</i>	(Vitrinella)
<i>Solenocera vioscai</i>	Humpback shrimp
<i>Speocarcinus lobatus</i>	Gulf squareback crab
<i>Spisula solidissima</i>	Atlantic surfclam
<i>Squilla chydæa</i>	(Offshore mantis shrimp)
<i>Squilla empusa</i>	Mantis shrimp
<i>Squilla neglecta</i>	Lesser mantis shrimp
<i>Stenorhynchus seticornis</i>	Yellowline arrow crab
<i>Stomolophus meleagris</i>	Cannonball jelly
<i>Stramonita haemastoma floridana</i>	Florida rocksnail
<i>Strombus alatus</i>	Florida fighting conch
Suborder Reptantia	Suborder reptantia
<i>Synalpheus fritzmülleri</i>	Speckled snapping shrimp
<i>Tagelus plebeius</i>	Stout tagelus
<i>Tellina alternata</i>	Alternate tellin
<i>Tellina tampaensis</i>	Tampa tellin
<i>Terebra dislocata</i>	Eastern auger
<i>Terebra protexta</i>	Fine-ribbed auger
<i>Thyone mexicana</i>	Sea cucumber
<i>Tonna galea</i>	Giant tun
<i>Tozeuma carolinense</i>	Arrow shrimp
<i>Trachycardium muricatum</i>	Yellow pricklycockle
<i>Trachypenaeus constrictus</i>	Roughneck shrimp
<i>Trachypenaeus similis</i>	Roughback shrimp
<i>Trachypenaeus sp.</i>	(Trachypenaeid shrimp - unidentified)
<i>Uca panacea</i>	Gulf sand fiddler
<i>Uca sp.</i>	(Fiddler crab - unidentified)
<i>Uca spinicarpa</i>	Spined fiddler
<i>Upogebia affinis</i>	Coastal mud shrimp
<i>Velevella velevella</i>	By-the-wind sailor
<i>Xiphopenaeus kroyeri</i>	Seabob
<i>Zoobotryon verticillatum</i>	(Sauerkraut bryozoan)

Appendix B. Summary of hydrological data collected for gill net, bay bag seine, oyster dredge, and bay and Gulf trawl samples.

TABLE B.1.—Mean surface salinity (‰) at sampled gill net sites by bay system during spring and fall, 1975-2016. ND = no data.

Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	8.3	ND	15.7	ND	ND	ND	21.2	ND	21.5	ND	17.6	ND	27	ND	33.6	ND	26.2	ND	21.9
1976	ND	ND	12.2	17.8	ND	20.0	14.0	19.0	29.4	14.6	15.0	9.9	18.0	16.1	35.0	23.3	29.0	23.8	22.2	17.9
1977	ND	ND	11.6	25.7	14.6	18.5	19.3	15.4	12.5	19.2	8.3	19.9	17.0	33.8	24.8	39.4	29.3	31.0	17.1	25.3
1978	ND	ND	20.2	22.4	21.1	19.0	20.8	15.1	24.0	13.6	23.1	13.3	30.4	25.8	41.4	38.6	33.0	17.1	26.7	20.6
1979	ND	ND	7.7	12.5	12.5	11.4	9.8	10.5	8.6	14.4	7.9	6.7	17.2	24.3	33.9	29.3	29.4	25.7	15.9	17.1
1980	ND	ND	13.1	24.1	17.6	25.3	15.7	23.1	20.4	20.1	17.5	20.8	29.8	25.6	36.3	24.4	30.4	32.4	22.6	24.5
1981	ND	ND	27.9	9.8	30.0	15.9	20.6	13.8	22.8	9.7	19.4	7.9	30.9	21.2	29.4	24.8	30.5	31.9	26.4	17.0
1982	ND	ND	12.1	20.6	15.1	24.7	12.8	23.0	17.6	26.9	12.4	25.4	23.4	33.0	24.0	39.8	27.1	36.2	18.4	29.1
1983	ND	ND	15.7	11.5	19.1	12.6	20.2	11.8	19.3	17.4	22.2	7.7	29.9	24.8	40.1	34.3	34.0	32.0	25.8	19.7
1984	ND	ND	21.4	19.1	23.3	15.3	24.2	19.0	27.8	29.4	22.4	26.4	31.8	33.8	38.9	44.4	35.0	23.8	28.7	27.2
1985	ND	ND	17.4	22.4	15.1	23.4	9.9	23.4	13.7	23.8	13.4	23.9	22.9	29.7	34.8	39.5	32.7	32.1	20.4	27.6
1986	11.7	13.0	16.0	19.8	25.2	13.8	23.4	22.0	21.3	23.6	21.3	25.5	30.8	36.8	41.8	46.8	33.6	38.2	25.0	27.5
1987	8.2	14.3	19.2	21.7	15.1	14.4	15.7	20.6	12.3	15.4	16.2	13.1	32.7	33.0	28.2	37.4	28.2	34.0	19.8	23.2
1988	8.0	12.1	18.6	21.7	26.0	27.5	25.2	32.6	24.4	23.4	21.4	25.5	33.9	36.8	43.0	48.3	32.8	31.4	25.9	28.9
1989	5.2	8.6	15.8	15.2	26.0	26.3	27.1	28.3	26.1	30.0	31.0	34.4	35.2	36.7	47.1	52.8	30.7	38.3	27.2	30.3
1990	2.0	10.4	12.1	19.2	17.9	27.7	19.3	25.1	23.9	23.9	26.8	21.7	31.2	26.5	41.7	51.9	31.5	38.9	23.3	27.2
1991	0.2	5.4	9.4	17.8	12.3	19.2	10.6	19.3	15.7	24.8	16.6	18.3	27.1	31.0	40.2	36.1	25.6	30.5	17.8	22.7
1992	1.9	12.1	10.0	22.3	10.7	23.7	5.5	23.2	3.1	20.1	4.0	17.6	16.9	26.7	18.7	29.4	24.4	34.2	10.6	23.2
1993	2.0	8.2	11.8	21.3	12.4	26.0	10.9	24.6	10.0	18.1	10.0	18.6	26.3	31.9	26.0	31.5	27.0	32.4	15.4	23.5
1994	1.4	5.2	11.3	13.1	21.8	22.8	18.3	18.3	13.3	19.6	17.8	22.6	27.6	31.3	31.0	40.2	29.6	34.6	18.9	23.1
1995	0.1	8.1	9.8	20.0	15.8	24.7	13.4	21.9	17.7	23.4	18.7	22.5	26.2	28.9	39.6	38.5	32.6	33.3	19.5	24.6
1996	11.0	9.3	23.7	20.2	29.2	20.6	30.8	24.1	26.6	26.1	30.8	31.8	33.9	37.6	44.7	49.9	34.5	30.7	29.6	27.7
1997	2.2	11.0	10.8	19.0	5.8	17.1	6.1	9.2	9.2	11.9	10.3	6.5	27.7	27.2	36.4	30.0	27.9	27.1	15.2	17.6
1998	8.2	8.3	18.0	12.1	19.9	16.5	17.9	10.4	20.4	10.7	20.4	8.0	31.4	23.3	32.0	30.7	33.5	25.1	22.5	15.7
1999	5.4	15.4	16.9	27.7	24.1	33.0	22.3	28.6	17.4	25.2	15.6	20.4	28.2	27.9	34.0	30.4	34.0	33.2	22.0	26.9
2000	11.0	19.1	20.6	28.2	30.8	35.8	25.3	32.6	25.8	31.5	22.5	33.7	32.7	36.9	38.9	49.7	33.3	39.2	26.4	33.8
2001	3.9	2.8	10.5	13.2	18.2	18.1	18.8	12.7	16.3	13.8	19.6	13.3	30.6	32.5	49.8	45.0	35.8	36.3	22.6	20.8
2002	5.0	5.1	12.4	10.6	23.5	13.0	24.1	13.0	17.9	12.9	18.9	8.6	30.9	15.9	43.2	32.7	36.6	32.0	23.5	15.9
2003	5.8	6.1	16.3	14.6	24.0	19.0	21.1	15.3	11.3	17.3	12.5	12.2	27.1	20.5	31.4	28.0	34.9	24.0	20.4	17.3
2004	4.9	10.5	13.2	18.2	18.9	21.3	12.9	18.5	10.5	12.6	9.7	11.9	20.0	25.6	24.8	30.4	27.8	37.1	15.6	20.6
2005	10.0	14.5	18.8	23.7	21.8	28.3	17.7	23.0	13.6	15.5	10.9	19.5	25.6	31.4	35.8	46.8	35.1	38.2	21.1	26.6
2006	12.7	10.3	23.5	16.4	30.8	21.5	27.0	17.7	19.4	18.6	23.8	17.4	34.7	30.1	51.5	40.2	36.5	34.3	28.7	22.8
2007	8.6	7.5	12.0	13.8	16.8	17.6	10.1	13.9	16.3	9.6	12.6	6.7	26.7	18.2	36.9	23.9	30.5	31.2	18.8	15.6
2008	5.2	15.1	14.3	18.8	25.7	30.7	21.2	25.4	27.5	29.3	19.6	27.3	27.8	31.1	38.4	35.9	33.4	21.8	23.5	25.8
2009	6.1	10.5	15.5	19.5	24.6	26.4	25.8	25.8	27.9	27.4	31.9	31.1	33.9	33.9	46.4	48.6	35.2	34.7	27.6	28.6
2010	9.4	14.5	17.5	19.8	25.2	23.2	22.5	18.1	18.4	14.9	15.4	9.9	26.4	25.0	33.9	14.3	30.2	16.9	21.9	17.1
2011	18.5	25.1	25.9	33.0	31.8	40.7	30.5	38.0	26.2	33.3	22.6	34.8	32.4	39.4	32.2	48.5	34.0	37.0	28.0	36.4
2012	7.7	16.1	16.6	27.4	25.7	34.3	21.0	24.8	19.1	26.5	24.2	31.9	31.4	38.5	48.0	53.6	32.8	34.6	24.9	31.8

TABLE B.1.—(Cont.)

Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
	2013	9.4	15.6	20.0	20.8	29.4	30.7	28.8	28.2	23.9	25.6	30.3	33.7	35.3	35.7	54.4	52.1	32.1	32.0	29.2
2014	11.2	11.0	21.2	20.3	31.0	28.4	29.7	29.5	27.2	31.3	30.1	32.8	33.4	36.6	48.8	41.7	29.4	25.5	28.8	28.5
2015	2.1	10.6	7.1	12.3	16.1	18.7	10.5	15.4	12.9	22.0	11.4	16.7	21.5	27.8	28.5	35.2	23.9	25.6	14.6	20.5
2016	3.3	8.3	8.9	16.2	16.0	20.2	11.4	14.5	17.5	14.2	14.5	12.6	26.0	26.2	35.4	40.8	27.8	35.5	17.6	20.8

TABLE B.2.—Mean surface water temperature (°C) at sampled gill net sites by bay system during spring and fall, 1975-2016. ND = no data.

Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	21.5	ND	18.6	ND	ND	ND	19.3	ND	21.5	ND	21.3	ND	22.5	ND	21.4	ND	23.3	ND	20.9
1976	ND	ND	28.5	18.4	ND	14.1	28.5	24.9	28.0	24.2	29.0	24.1	26.0	24.2	29.0	18.5	26.5	19.8	28.1	21.3
1977	ND	ND	24.5	21.4	25.4	22.7	23.3	22.8	24.1	23.0	23.7	22.6	24.1	23.1	25.7	21.9	27.0	24.9	24.7	22.8
1978	ND	ND	25.3	20.8	25.4	22.5	25.8	23.0	25.2	23.3	25.9	22.9	27.3	23.5	26.3	23.1	26.8	24.2	26.0	22.9
1979	ND	ND	25.5	23.4	26.3	23.3	25.9	23.9	27.0	24.1	27.6	23.1	27.0	23.3	27.8	24.3	27.5	25.2	26.8	23.9
1980	ND	ND	26.5	25.0	26.7	24.1	25.3	24.3	26.9	23.8	26.7	23.4	27.1	24.0	28.0	24.9	28.2	25.1	26.9	24.3
1981	ND	ND	25.6	25.2	25.6	24.4	24.9	25.3	26.1	25.4	27.2	25.1	26.8	25.4	26.1	26.0	26.4	26.9	26.1	25.6
1982	ND	ND	26.4	24.9	25.9	25.2	26.9	25.3	25.7	25.3	26.6	23.9	26.6	24.0	27.8	24.7	27.1	26.0	26.7	24.9
1983	ND	ND	25.2	25.4	25.8	26.2	24.8	25.8	25.6	25.5	25.8	25.3	26.5	25.7	27.4	27.3	25.9	27.1	25.9	26.0
1984	ND	ND	26.5	25.4	25.0	26.5	25.1	25.4	25.8	25.0	25.8	25.2	26.2	24.8	27.1	25.9	27.3	27.0	26.2	25.6
1985	ND	ND	27.5	25.3	28.6	25.4	27.2	25.5	26.1	27.2	27.4	25.7	26.2	25.8	27.6	26.2	28.1	27.2	27.2	26.1
1986	27.0	26.0	26.9	24.6	27.3	23.6	26.5	25.1	27.2	25.8	28.0	25.0	27.1	24.6	26.9	26.4	28.1	25.7	27.2	25.3
1987	25.7	23.7	26.4	23.5	27.2	24.5	26.2	25.2	26.7	26.5	26.4	25.0	25.9	24.8	27.7	26.4	24.9	25.4	26.3	25.0
1988	25.4	26.3	25.4	25.6	26.1	26.7	25.0	27.0	24.9	27.4	26.6	25.9	24.2	25.7	26.5	27.2	27.2	27.7	25.7	26.6
1989	25.0	24.8	26.0	23.6	28.4	25.5	26.5	24.1	26.7	24.2	26.5	24.4	26.7	25.7	26.8	26.5	27.5	27.0	26.6	25.1
1990	23.2	25.5	25.1	25.1	27.7	25.2	26.6	24.9	25.5	25.1	26.9	25.2	25.6	26.4	27.5	26.9	27.6	26.0	26.1	25.6
1991	27.1	24.8	26.7	24.7	27.8	23.9	26.5	23.3	26.5	25.2	27.4	23.2	28.1	25.0	28.3	25.7	28.4	25.8	27.4	24.7
1992	27.6	23.8	26.2	23.2	24.6	25.0	24.4	24.6	26.4	24.6	27.2	24.7	26.5	23.8	28.0	25.3	27.3	25.7	26.6	24.5
1993	25.9	23.8	25.6	22.8	27.1	24.0	25.5	23.7	25.9	24.3	26.2	24.2	25.6	24.5	25.1	24.8	26.6	25.4	25.9	24.2
1994	26.7	25.3	26.5	25.1	27.0	26.6	26.3	26.5	26.3	26.1	26.9	26.7	27.2	26.8	27.8	26.7	27.6	27.4	26.9	26.3
1995	25.9	24.8	26.0	24.7	26.8	25.0	25.7	25.3	26.6	25.3	26.6	25.9	26.7	25.7	27.1	26.2	27.1	26.8	26.5	25.6
1996	27.1	25.0	27.2	25.4	28.1	26.1	27.1	26.3	27.7	26.3	27.5	26.7	27.5	27.0	28.3	27.3	28.1	27.6	27.5	26.4
1997	25.3	23.1	26.4	23.2	26.4	22.8	25.5	23.3	26.2	23.0	26.9	23.6	27.0	24.0	28.0	23.9	26.9	24.6	26.5	23.5
1998	27.4	25.3	26.9	25.6	27.8	27.1	27.0	26.8	26.8	26.9	27.3	26.3	27.2	26.7	27.9	26.9	27.6	26.8	27.3	26.5
1999	27.4	24.5	27.0	25.2	28.2	25.4	27.4	25.8	27.7	25.4	28.0	25.8	27.8	25.7	29.1	25.9	29.1	26.1	28.0	25.5
2000	27.2	24.0	27.4	24.3	28.8	24.8	27.8	24.5	28.0	25.2	28.6	25.3	28.0	24.7	28.8	24.9	28.2	26.5	28.0	24.9
2001	27.0	24.6	26.8	25.2	28.6	26.0	27.6	25.9	27.3	25.7	27.3	25.8	27.2	26.6	27.5	26.8	27.7	26.8	27.4	25.9
2002	27.5	24.6	28.1	25.0	28.7	25.2	28.0	25.2	28.2	25.8	28.2	25.9	28.6	26.7	28.7	26.7	28.8	27.3	28.3	25.8
2003	28.0	24.7	27.7	24.8	28.5	25.0	28.1	25.4	28.0	25.2	28.5	25.9	28.5	26.5	28.5	25.9	28.8	26.8	28.3	25.6
2004	26.2	26.2	26.3	26.2	26.9	26.8	25.7	26.9	26.3	26.9	26.7	27.1	26.3	27.0	26.8	27.5	26.9	28.4	26.4	27.0
2005	26.5	25.4	26.2	26.1	26.9	26.8	26.4	27.2	26.4	26.8	27.2	27.8	26.4	27.5	27.2	27.8	27.6	28.2	26.8	27.1
2006	26.6	25.3	27.6	25.2	28.2	25.9	27.5	26.0	27.5	26.7	27.9	26.3	27.4	26.8	28.4	26.7	29.1	27.4	27.8	26.3
2007	26.4	26.3	26.1	26.7	26.5	27.2	25.4	27.1	25.9	27.2	26.4	27.1	26.1	27.4	26.5	27.6	26.6	28.2	26.2	27.2
2008	26.6	23.7	26.5	23.8	27.8	25.1	27.0	25.0	27.3	25.1	27.4	25.3	27.2	25.4	27.9	25.5	28.1	25.8	27.3	25.0
2009	27.1	24.2	26.6	24.5	27.3	25.6	27.3	25.3	27.5	26.2	27.8	26.3	27.4	26.2	28.2	26.0	28.4	27.1	27.5	25.7
2010	28.0	25.2	26.9	25.5	27.9	25.4	27.0	25.4	27.3	25.7	27.9	26.0	27.3	26.0	28.2	26.2	27.9	26.8	27.6	25.8
2011	27.5	25.2	26.8	25.6	28.3	26.3	27.3	25.7	27.4	26.5	27.5	26.5	27.6	26.6	27.6	26.6	27.9	27.4	27.5	26.3

TABLE B.2.—(Cont.)

Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
2012	27.9	24.7	27.5	25.2	28.8	24.6	27.8	25.0	27.9	25.4	27.6	25.6	27.8	26.1	28.5	26.4	28.8	27.3	28.0	25.6
2013	26.6	25.4	25.5	25.4	26.8	25.8	26.2	26.4	26.3	26.3	26.6	26.7	26.3	27.0	27.3	27.0	27.6	27.0	26.6	26.4
2014	25.5	23.8	25.6	24.1	26.7	24.0	26.1	24.5	25.8	24.9	26.6	24.9	26.2	25.3	26.8	25.4	26.9	25.8	26.2	24.8
2015	26.6	24.6	26.6	25.4	27.2	25.2	26.9	25.8	27.1	26.5	27.0	26.7	27.0	27.1	27.9	27.3	28.1	28.1	27.2	26.3
2016	26.1	27.0	26.2	27.4	26.7	27.3	26.6	27.9	27.2	28.8	27.2	28.2	27.2	28.5	28.3	28.4	28.2	28.8	27.1	28.1

TABLE B.3.—Annual mean surface turbidity at sampled gill net sites by bay system during spring and fall 1975-2016. ND = no data.

Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Jackson Turbidity Units																				
1975	ND	33	ND	50	ND	ND	ND	27	ND	49	ND	24	ND	26	ND	38	ND	29	ND	36
1976	ND	ND	91	61		152	80	33	5	36	24	65	118	70	24	50	24	37	53	58
1977	ND	ND	79	67	117	33	49	80	49	19	39	55	172	47	39	46	40	31	71	47
1978	ND	ND	79	47	19	16	63	62	61	22	55	42	51	40	72	60	38	41	55	41
1979	ND	ND	135	67	39	27	75	60	70	22	70	43	71	62	53	35	33	90	68	52
1980	ND	ND	117	71	73	61	83	34	44	19	45	36	56	35	41	53	78	61	67	46
1981	ND	ND	51	69	51	65	68	65	41	23	43	60	57	39	216	48	120	72	81	54
1982	ND	ND	63	58	79	58	76	45	33	28	81	32	52	38	54	32	135	82	71	45
1983	ND	ND	60	60	50	25	52	41	43	31	44	40	39	43	49	39	49	68	48	45
1984	ND	ND	43	35	28	25	35	46	47	40	40	43	47	38	67	57	117	87	56	48
1985	ND	ND	26	30	62	35	54	50	50	49	47	47	50	41	72	41	102	58	57	45
1986	45	28	32	35	55	37	55	31	49	32	38	37	63	26	61	85	53	56	50	41
Nephelometric Units																				
1987	29	18	18	16	43	19	27	19	24	15	10	7	13	6	14	12	20	13	21	13
1988	22	11	16	12	27	19	16	19	22	22	13	16	23	9	18	15	27	28	20	17
1989	25	9	13	9	17	23	36	15	33	14	21	8	17	12	13	9	42	13	24	12
1990	16	9	9	12	23	12	26	15	38	15	22	14	15	10	24	11	27	13	22	12
1991	15	6	22	9	51	22	30	15	17	13	23	13	14	11	25	17	12	11	21	12
1992	21	11	20	11	25	12	48	16	52	15	42	14	23	12	25	12	26	15	32	13
1993	24	12	24	14	32	14	46	16	26	11	26	16	16	15	18	16	20	14	25	14
1994	12	13	22	22	23	16	26	28	21	9	21	10	18	8	14	11	27	15	20	15
1995	27	8	39	11	40	20	35	20	20	8	20	13	25	12	14	9	35	11	27	12
1996	22	11	27	11	38	25	39	17	31	10	23	13	34	11	26	12	25	13	30	14
1997	22	9	19	17	46	24	44	35	26	23	23	21	14	13	18	12	24	12	27	19
1998	12	11	21	20	42	21	27	42	23	42	26	30	37	14	32	14	25	12	28	23
1999	29	14	26	21	39	24	23	23	29	10	20	11	16	11	26	24	25	11	26	17
2000	20	22	22	21	22	18	37	27	25	16	44	18	19	13	28	19	16	8	27	18
2001	39	44	26	12	55	28	47	26	31	14	27	24	24	17	30	23	21	12	33	22
2002	26	21	26	19	36	24	40	41	28	21	26	34	22	22	24	20	21	15	28	25
2003	21	21	21	18	59	74	49	56	26	10	23	14	17	17	26	7	25	10	30	23
2004	27	21	37	20	60	19	95	30	38	19	48	22	24	14	44	11	26	14	44	19
2005	15	17	24	19	24	14	35	34	22	3	22	14	17	12	15	10	23	11	23	15
2006	21	15	25	16	26	17	33	22	9	9	16	18	29	10	23	6	22	15	23	15
2007	33	13	34	21	31	25	63	31	15	22	48	28	33	24	19	21	20	13	34	22
2008	29	14	56	48	56	17	42	24	46	8	25	12	27	12	39	6	28	14	38	18
2009	34	22	32	23	71	24	38	26	13	5	47	19	35	10	26	9	27	17	34	17
2010	21	15	31	22	44	26	40	25	21	8	44	26	17	11	14	25	31	31	29	21

Table B.3.— (Cont.)

Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
2011	36	10	34	22	51	19	44	28	22	7	37	17	21	10	38	12	44	10	36	15
2012	25	15	37	13	37	23	35	14	12	8	25	23	11	8	46	20	15	12	27	15
2013	22	11	16	12	20	33	29	18	12	14	23	16	31	11	23	17	26	8	24	15
2014	36	17	19	10	38	27	35	23	17	12	35	23	20	12	55	20	22	6	31	16
2015	35	11	29	15	47	22	86	25	27	17	25	12	19	10	20	12	18	10	35	15
2016	23	13	31	12	35	18	36	17	23	13	24	11	15	10	18	11	12	8	24	13

TABLE B.4.—Annual mean surface salinity (‰) at sampled bag seine sites by bay system during 1977-2016. ND = no data.

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
1977	ND	23.8	ND	17.2	19.6	21.6	33.5	40.1	30.6	26.6
1978	ND	22.2	ND	19.4	21.6	19.6	29.8	39.6	28.9	25.9
1979	ND	13.7	ND	10.8	12.1	11.2	24.1	32.0	26.9	18.7
1980	ND	21.6	ND	20.3	20.7	19.3	28.4	30.3	30.6	24.4
1981	ND	16.8	ND	18.7	13.3	11.5	25.0	25.7	28.9	20.0
1982	ND	16.4	ND	17.6	18.2	17.6	28.2	29.9	30.9	22.7
1983	ND	13.5	15.6	16.0	17.1	17.4	27.7	35.9	31.3	21.9
1984	ND	19.1	18.6	21.2	22.8	22.7	32.1	39.9	30.1	25.8
1985	ND	15.9	16.9	18.3	17.4	19.3	27.7	36.3	32.5	23.0
1986	9.4	15.5	20.2	20.1	17.6	23.0	32.7	40.3	34.9	23.7
1987	7.3	18.9	16.2	14.6	12.1	13.5	27.8	30.9	31.6	19.2
1988	7.5	20.6	26.5	27.0	23.1	24.0	35.2	45.8	31.4	26.8
1989	5.7	15.1	26.9	27.0	27.7	31.1	35.4	48.7	34.1	28.0
1990	6.0	16.1	23.9	24.9	23.3	26.9	32.7	47.8	35.4	26.3
1991	2.6	12.2	17.8	16.4	19.4	18.6	30.7	40.2	29.7	20.9
1992	4.6	15.2	15.8	12.4	9.5	10.4	22.8	25.0	29.3	16.1
1993	4.1	13.4	18.0	16.0	13.2	14.0	27.5	27.6	28.0	18.0
1994	4.4	13.4	23.2	18.6	16.2	21.5	30.1	34.7	30.1	21.3
1995	3.1	14.0	19.4	17.5	19.3	21.2	29.4	37.9	32.1	21.7
1996	10.6	20.0	26.0	25.4	26.0	30.5	36.4	44.9	31.8	27.9
1997	6.6	14.6	14.0	11.1	13.4	15.1	29.5	34.8	30.8	18.7
1998	6.3	14.5	18.1	16.6	15.6	16.6	28.9	31.5	30.1	19.6
1999	7.7	21.7	27.4	23.5	18.2	18.6	28.5	32.1	32.2	23.2
2000	13.1	23.8	31.5	28.0	26.0	27.7	33.4	43.2	35.8	28.9
2001	3.4	14.2	18.7	17.5	16.8	19.7	31.9	45.0	37.3	22.3
2002	4.8	12.6	18.3	18.0	13.9	13.3	23.3	35.8	33.7	19.0
2003	6.2	16.0	19.4	18.0	14.5	13.8	24.8	28.9	29.5	18.9
2004	5.1	14.7	16.4	14.0	12.5	13.1	23.0	27.7	30.2	17.2
2005	9.7	19.6	23.8	18.1	13.9	14.5	27.6	39.0	34.8	22.1
2006	11.1	20.2	25.0	22.3	20.4	21.9	32.8	43.6	34.9	25.6
2007	5.9	12.1	16.0	11.7	14.8	11.6	21.6	29.3	30.1	16.6
2008	8.8	18.4	24.9	23.0	26.0	23.0	29.0	35.1	27.4	23.7
2009	10.6	20.3	28.5	25.9	27.9	31.4	33.1	45.9	32.3	28.2
2010	9.8	18.2	25.0	18.5	17.1	14.7	26.0	25.8	22.7	19.2
2011	19.3	27.8	33.3	31.6	28.0	27.4	34.0	36.3	32.7	29.9
2012	11.3	21.5	27.4	24.0	23.3	29.5	34.9	48.6	33.0	27.8
2013	11.0	22.5	29.1	28.2	27.3	31.1	35.8	52.8	33.1	29.8
2014	10.1	21.9	29.3	27.5	28.9	30.8	35.1	45.4	28.9	28.3

TABLE B.4.— (Cont.)

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
2015	5.8	12.2	18.8	15.8	19.0	17.8	26.7	32.0	25.3	18.7
2016	5.3	12.7	18.0	15.1	17.1	15.6	27.1	36.6	30.8	19.4

TABLE B.5.--Annual mean surface temperature (°C) at sampled bag seine sites by bay system during 1977-2016. ND = no data.

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
1977	ND	20.9	ND	22.7	22.4	21.5	21.0	21.1	21.6	21.6
1978	ND	21.3	ND	20.7	22.0	22.3	21.8	22.2	22.1	21.8
1979	ND	21.9	ND	22.3	23.2	22.4	22.8	23.4	23.5	22.8
1980	ND	23.1	ND	22.6	23.2	23.7	23.3	24.7	24.1	23.5
1981	ND	23.0	ND	22.2	23.2	23.9	23.3	25.0	24.6	23.6
1982	ND	24.0	ND	23.0	22.2	24.0	23.6	24.5	24.2	23.7
1983	ND	23.4	24.1	22.5	21.7	23.7	23.4	25.1	24.1	23.5
1984	ND	23.9	23.2	23.0	22.0	23.8	23.7	24.4	23.9	23.5
1985	ND	23.8	23.4	23.5	22.6	23.6	23.2	23.7	24.2	23.5
1986	23.2	23.8	23.2	23.4	24.1	24.3	24.2	24.8	24.7	24.0
1987	22.0	23.2	23.1	23.1	22.1	23.1	23.3	24.4	23.8	23.1
1988	22.3	23.6	23.6	23.1	23.1	23.9	22.8	24.4	24.6	23.5
1989	21.7	22.6	22.7	22.2	22.6	22.1	23.7	24.2	24.6	22.9
1990	21.4	23.0	23.8	23.8	23.1	24.0	24.6	24.5	24.9	23.7
1991	22.4	22.9	23.3	22.6	22.3	22.1	23.5	24.5	24.9	23.2
1992	21.8	22.0	22.4	21.2	23.2	22.7	23.0	24.0	25.2	22.9
1993	22.2	22.2	24.2	23.1	22.7	23.6	23.3	23.2	25.1	23.2
1994	22.7	23.1	23.9	23.6	22.8	24.6	24.4	24.7	25.3	23.9
1995	22.7	23.2	24.6	24.1	24.1	24.4	24.5	24.7	25.6	24.2
1996	22.6	23.1	24.1	23.4	23.0	23.6	24.7	24.8	25.0	23.7
1997	22.5	23.0	23.1	22.4	22.4	22.6	23.0	23.9	24.8	23.0
1998	22.9	23.8	24.7	24.6	24.2	24.7	24.8	25.6	26.2	24.6
1999	22.8	24.4	25.2	24.4	24.2	25.1	25.3	26.2	27.1	24.9
2000	22.4	24.3	24.3	24.4	24.3	24.4	24.9	25.4	25.8	24.4
2001	22.2	23.9	24.7	23.8	23.9	24.6	23.9	25.7	25.9	24.2
2002	21.7	23.2	23.8	23.5	23.2	24.4	24.5	25.0	25.8	23.8
2003	22.5	23.5	24.0	23.5	24.3	24.1	24.3	25.2	25.6	24.1
2004	22.2	22.9	24.0	23.6	23.6	25.2	25.2	25.5	25.8	24.2
2005	21.8	23.7	25.1	24.3	23.8	24.7	24.7	25.9	26.1	24.4
2006	22.1	23.7	25.5	24.7	24.9	25.0	25.4	25.8	26.5	24.7
2007	22.1	23.7	24.8	24.2	23.4	24.7	24.5	25.6	24.8	24.1
2008	22.3	23.0	23.8	24.0	23.9	24.0	24.0	25.4	24.7	23.9
2009	22.2	23.3	24.6	23.9	23.5	23.9	24.7	25.7	25.0	24.0
2010	23.1	23	24.2	23.2	23.9	23.8	24.2	25.1	24.8	23.9
2011	23.8	23.7	23.7	23.6	24.5	24.1	24.6	25.4	25.3	24.3
2012	23.5	24.0	24.5	24.9	25.5	24.7	25.3	26.2	25.9	24.9
2013	22.1	22.9	23.3	23.5	23.3	23.8	23.8	25.1	24.9	23.6
2014	22.0	22.9	22.4	22.8	23.4	23.0	23.8	24.6	24.1	23.2

TABLE B.5.— (Cont.)

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
2015	22.5	23.4	24.2	23.7	23.7	23.4	23.6	25.1	25.0	23.8
2016	23.6	24.6	24.8	24.7	24.6	25.1	24.8	26.6	26.0	25.0

TABLE B.6.—Annual mean surface turbidity at sampled bag seine sites by bay system during 1977-2016. ND = no data.

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jackson Turbidity Units										
1977	ND	94	ND	60	27	50	40	50	30	55
1978	ND	78	ND	55	33	41	43	51	34	51
1979	ND	90	ND	70	31	53	44	47	59	60
1980	ND	90	ND	42	24	47	52	75	73	61
1981	ND	87	ND	54	25	65	44	107	95	71
1982	ND	105	ND	50	31	60	46	69	87	69
1983	ND	96	88	54	30	51	46	57	48	58
1984	ND	75	42	44	37	51	40	84	60	54
1985	ND	53	62	49	50	54	40	95	62	58
1986	46	83	57	46	51	49	46	55	66	55
Nephelometric Units										
1987	24	28	36	35	31	10	30	15	16	25
1988	25	28	29	27	29	22	20	23	27	25
1989	27	29	29	25	36	20	17	18	22	25
1990	21	29	27	28	32	20	21	21	25	25
1991	29	26	32	35	41	26	18	16	17	26
1992	25	23	32	41	41	32	20	18	22	28
1993	22	30	28	40	24	29	20	25	33	28
1994	21	26	30	26	23	17	17	11	41	23
1995	26	33	34	34	23	23	15	12	23	24
1996	35	26	43	32	24	20	17	17	24	25
1997	27	26	46	53	32	21	15	20	28	31
1998	26	37	42	40	34	28	24	25	33	34
1999	35	30	43	33	29	21	17	29	18	28
2000	35	32	39	30	27	24	20	28	26	30
2001	41	24	41	59	27	25	23	25	22	37
2002	38	37	40	50	34	40	21	25	30	38
2003	37	39	45	42	21	24	20	20	26	33
2004	38	47	54	68	26	28	18	14	41	43
2005	31	34	39	42	17	22	24	13	40	33
2006	38	38	36	28	9	17	21	19	28	29
2007	33	37	59	57	19	27	32	27	33	41
2008	30	45	52	46	13	20	25	23	35	34
2009	35	42	51	37	12	24	34	19	33	34
2010	33	35	40	50	16	24	19	13	33	32
2011	28	47	38	35	13	20	12	27	29	28

TABLE B.6.—(Cont.)

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Nephelometric Units										
2012	26	40	29	21	20	23	12	30	34	29
2013	27	20	26	27	15	24	20	30	24	26
2014	30	22	42	31	16	23	24	34	22	28
2015	30	23	45	42	28	25	19	29	33	33
2016	30	26		40	21	19	17	20	27	29

TABLE B.7.—Annual mean bottom salinity (o/oo) at sampled oyster dredge reef sites in Texas bay systems from 1984-2016. ND = no data.

Year	Galveston	Matagorda	San Antonio	Aransas	Coastwide
1984	16.7	ND	ND	ND	16.7
1985	16.5	ND	ND	ND	16.5
1986	14.3	21.6	17.2	20.8	18.1
1987	15.4	16.1	9.3	12.7	13.6
1988	19.2	28.1	22.7	24.4	23.0
1989	16.1	28.5	27.3	29.6	24.4
1990	14.9	24.6	24.0	25.9	20.7
1991	11.4	16.4	19.2	18.9	15.3
1992	13.1	12.1	8.3	9.2	10.9
1993	12.1	15.1	12.9	14.5	13.5
1994	12.5	19.1	16.0	19.9	16.4
1995	13.3	16.9	18.4	20.1	16.7
1996	20.7	24.6	27.1	29.6	25.0
1997	13.1	10.6	12.7	14.8	12.8
1998	14.6	16.3	14.3	14.7	14.9
1999	18.7	23.5	16.2	16.9	18.8
2000	23.9	28.6	26.2	26.3	26.0
2001	11.9	17.4	14.4	16.8	14.8
2002	13.4	17.9	11.7	11.6	13.6
2003	15.9	17.7	9.9	11.5	14.0
2004	13.2	13.2	11.3	9.8	12.0
2005	18.3	18.6	11.0	13.0	15.5
2006	20.2	23.1	20.5	20.7	21.0
2007	11.2	11.8	13.0	9.4	11.3
2008	16.5	23.9	25.7	21.4	21.3
2009	19.2	26.5	28.2	31.4	25.5
2010	16.2	18.8	14.4	11.4	15.3
2011	27.0	32.0	27.0	25.0	27.7
2012	20.0	24.4	22.5	29.0	23.5
2013	21.4	28.4	27.7	31.6	26.6
2014	20.8	27.9	29.3	31.2	26.6
2015	12.1	15.3	17.3	17.7	15.2
2016	11.7	15.3	15.4	15.0	14.1

TABLE B.8.—Annual mean bottom temperature (°C) at sampled oyster dredge reef sites in Texas bay systems from 1984-2016. ND = no data

Year	Galveston	Matagorda	San Antonio	Aransas	Coastwide
1984	21.0	ND	ND	ND	21.0
1985	22.2	ND	ND	ND	22.2
1986	22.0	22.5	22.8	22.3	22.3
1987	21.4	22.0	21.8	21.1	21.4
1988	21.3	21.7	21.9	21.8	21.6
1989	20.5	21.3	21.4	21.2	21.0
1990	22.0	22.4	22.5	22.8	22.4
1991	21.6	21.4	22.1	21.6	21.7
1992	21.4	20.1	21.9	21.6	21.3
1993	21.5	22.1	21.5	21.4	21.6
1994	22.1	22.4	22.5	22.3	22.3
1995	22.1	22.9	23.1	22.6	22.6
1996	21.4	22.1	22.2	22.3	21.9
1997	21.3	21.5	21.5	22.2	21.6
1998	22.7	23.9	23.6	23.4	23.3
1999	23.1	23.5	23.1	23.4	23.2
2000	22.5	22.7	23.1	22.3	22.6
2001	21.9	23.1	22.8	22.5	22.5
2002	21.9	22.5	22.4	22.8	22.4
2003	22.0	22.9	23.2	23.2	22.7
2004	22.1	22.9	22.8	23.3	22.7
2005	22.3	23.3	22.5	23.3	22.8
2006	22.8	23.5	23.9	23.5	23.4
2007	22.2	22.8	22.7	22.2	22.4
2008	22.1	23.2	22.7	22.5	22.6
2009	22.0	22.6	22.6	22.5	22.4
2010	21.4	22.2	22.5	22.3	22.0
2011	21.9	23.0	22.9	23.2	22.7
2012	22.5	24.2	23.9	24.0	23.5
2013	21.8	22.7	22.0	21.8	22.0
2014	21.6	21.7	22.1	22.0	21.8
2015	22.2	22.5	22.7	23.1	22.6
2016	23.1	23.8	24.1	23.3	23.5

TABLE B.9.—Annual mean bottom turbidity at sampled oyster dredge reef sites in Texas bay systems from 1984-2016. ND = no data.

Year	Galveston	Matagorda	San Antonio	Aransas	Coastwide
Jackson Turbidity Units					
1984	25	ND	ND	ND	25
1985	47	ND	ND	ND	47
1986	45	43	54	40	45
Nephelometric Units					
1987	15	23	32	7	16
1988	14	18	16	16	16
1989	19	20	25	16	19
1990	15	19	23	18	18
1991	17	22	25	21	20
1992	17	30	38	32	28
1993	21	23	20	22	21
1994	17	16	16	17	17
1995	20	21	15	16	18
1996	16	28	22	15	20
1997	18	41	28	20	25
1998	17	28	29	28	25
1999	19	20	16	13	17
2000	25	22	18	20	22
2001	18	29	23	19	22
2002	21	32	29	30	27
2003	23	21	16	23	21
2004	30	51	28	18	32
2005	29	23	18	20	23
2006	33	22	8	12	21
2007	35	37	18	21	29
2008	44	31	12	22	29
2009	35	35	9	16	25
2010	35	30	16	23	27
2011	30	23	9	20	21
2012	25	13	9	12	16
2013	14	18	13	16	15
2014	14	31	17	11	18
2015	18	35	25	19	23
2016	27	31	19	7	22

TABLE B.10.—Annual mean bottom salinity (‰) at sampled bay trawl sites in Texas bay systems from 1977-2016. ND = no data.

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
1977	ND	20.5	ND	17.9	13.9	19.5	ND	ND	ND	18.5
1978	ND	20.1	ND	19.3	14.7	20.6	ND	ND	ND	19.0
1979	ND	9.0	ND	10.3	5.7	ND	ND	ND	ND	8.8
1980	ND	22.8	ND	ND	ND	ND	ND	ND	ND	22.8
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1982	ND	14.3	ND	22.8	16.8	19.2	30.5	33.2	36.4	21.8
1983	ND	10.0	ND	20.8	16.1	18.8	29.8	38.0	32.9	21.8
1984	ND	17.1	ND	25.1	24.3	24.0	32.6	39.8	31.1	26.4
1985	ND	15.1	ND	22.8	16.0	20.6	30.1	37.3	33.2	23.3
1986	8.2	14.1	ND	25.0	17.2	22.4	31.3	40.4	36.4	22.4
1987	7.3	14.5	16.3	22.2	9.4	16.3	29.9	32.1	33.3	18.8
1988	8.3	18.8	28.9	29.6	22.1	25.6	34.4	45.3	34.1	25.8
1989	5.7	15.7	27.8	30.6	26.5	30.0	35.4	50.3	36.0	26.8
1990	5.1	14.0	25.7	26.9	21.7	27.0	33.1	50.2	36.7	26.0
1991	2.2	11.1	19.0	22.0	17.5	19.9	31.1	42.7	31.7	21.3
1992	5.5	12.7	16.7	16.6	7.4	11.0	25.6	23.7	31.2	16.0
1993	2.8	12.3	18.9	18.7	11.6	17.5	30.7	26.7	31.4	18.7
1994	2.6	11.7	25.1	21.5	14.6	21.9	31.4	35.3	32.8	21.3
1995	4.5	12.4	21.7	22.4	17.8	21.0	30.7	38.8	33.2	21.9
1996	10.3	20.9	27.2	27.8	25.6	30.0	36.6	46.1	34.1	28.5
1997	5.3	12.1	15.0	15.8	12.2	16.5	30.1	36.7	32.7	18.8
1998	6.6	14.1	19.6	20.3	12.4	17.1	30.6	30.5	32.1	19.9
1999	7.5	18.1	28.4	26.0	16.5	18.9	29.7	30.9	34.4	22.8
2000	13.9	23.5	33.6	30.4	25.2	27.7	34.8	42.7	37.3	29.3
2001	3.7	11.2	20.5	21.2	14.0	18.6	32.7	46.9	37.5	21.7
2002	4.6	12.2	21.3	21.0	11.7	12.7	24.6	36.4	34.8	18.7
2003	6.0	14.5	20.8	22.0	10.2	14.0	27.1	29.3	31.4	18.8
2004	4.9	11.9	19.0	17.4	10.6	12.4	26.3	27.7	32.9	17.3
2005	8.5	18.1	25.0	22.1	10.7	15.3	29.6	39.7	35.6	21.5
2006	10.2	19.5	27.1	25.8	19.5	22.6	34.6	44.7	37.2	25.9
2007	6.4	11.1	17.8	15.2	12.6	11.4	25.0	30.2	32.0	16.9
2008	8.0	16.4	27.1	25.8	24.5	23.1	30.8	35.1	30.3	24.4
2009	8.7	18.8	32.2	27.6	27.0	31.4	34.0	46.6	34.3	28.5
2010	8.9	15.5	26.0	22.7	13.6	14.0	27.5	27.9	25.7	19.7
2011	19.3	26.9	35.6	32.3	26.9	26.1	34.8	35.9	34.5	30.0
2012	11.1	19.7	29.0	27.3	22.5	29.4	36.7	49.6	34.0	28.2
2013	10.3	21.3	31.2	29.5	26.7	31.1	36.5	54.9	34.6	30.1

TABLE B.10.— (Cont.)

Year	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
2014	9.7	20.2	30.0	29.2	27.9	30.8	35.7	46.2	30.9	28.9
2015	5.8	12.1	20.1	18.5	17.6	19.0	29.5	32.3	27.8	20.0
2016	4.9	11.7	19.3	17.8	14.9	16.8	29.3	36.7	32.2	19.6

TABLE B.11.—Annual mean bottom temperature (°C) at sampled bay trawl sites in Texas bay systems from 1977-2016. ND = no data.

Year	Sabine Lake	Galveston	Matagorda	East Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
1977	ND	18.7	ND	17.9	21.1	17.8	ND	ND	ND	18.8
1978	ND	21.6	ND	23.5	24.2	24.8	ND	ND	ND	22.9
1979	ND	22.5	ND	21.6	25.5	ND	ND	ND	ND	22.8
1980	ND	23.8	ND	ND	ND	ND	ND	ND	ND	23.8
1981	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1982	ND	22.0	ND	25.2	22.7	23.1	25.2	25.9	25.6	23.7
1983	ND	21.0	ND	21.8	22.3	21.8	22.3	21.8	22.0	21.9
1984	ND	21.5	ND	22.1	22.0	22.5	21.3	22.0	22.8	22.0
1985	ND	21.9	ND	22.5	22.3	22.6	22.3	22.6	23.3	22.4
1986	22.7	22.0	ND	22.8	23.1	22.4	22.4	23.6	22.5	22.6
1987	20.7	21.4	24.4	21.7	21.7	21.4	21.1	22.7	22.2	21.6
1988	21.4	21.2	21.8	21.4	21.7	21.8	21.9	22.5	23.6	21.8
1989	19.9	20.5	21.9	20.9	21.1	21.1	22.0	23.0	23.1	21.3
1990	20.9	22.0	23.1	22.2	22.4	22.9	22.9	23.6	23.8	22.6
1991	21.3	21.7	21.7	21.7	22.1	21.6	22.6	23.1	23.4	22.1
1992	20.4	21.4	20.5	21.1	22.0	21.6	21.6	22.9	23.4	21.6
1993	21.3	21.1	22.2	22.2	21.6	21.7	22.1	21.8	23.7	21.9
1994	21.7	22.0	22.6	22.4	22.6	22.5	23.0	23.7	24.1	22.6
1995	21.8	21.8	22.6	22.5	23.0	22.6	23.1	22.9	23.2	22.6
1996	21.6	21.5	22.4	21.9	22.0	22.3	22.3	23.5	23.4	22.2
1997	21.4	21.0	21.8	21.3	21.4	22.0	21.8	22.9	22.5	21.7
1998	22.4	22.6	23.5	23.3	23.4	23.4	23.6	24.4	24.6	23.4
1999	21.8	23.0	23.2	23.2	23.1	23.5	23.8	24.7	25.1	23.4
2000	22.0	22.4	22.6	22.6	23.1	22.3	23.8	23.7	24.1	22.9
2001	21.6	21.8	23.0	22.4	22.8	22.4	23.0	23.8	24.4	22.7
2002	21.2	21.9	22.4	22.1	22.2	22.6	22.8	23.7	24.0	22.5
2003	21.8	21.8	22.6	22.7	23.0	23.0	23.0	23.7	24.2	22.8
2004	21.7	22.1	23.0	22.7	22.7	23.1	23.3	24.2	24.7	23.0
2005	21.7	22.4	24.0	23.1	22.6	23.1	23.2	23.9	24.4	23.0
2006	22.4	22.9	24.0	23.3	23.7	23.4	23.6	24.5	24.6	23.5
2007	21.7	22.0	23.2	23.1	22.5	22.2	22.9	23.7	23.8	22.7
2008	21.8	21.9	22.8	22.8	22.6	22.6	23.3	23.7	23.3	22.7
2009	21.7	22.1	23.5	22.9	22.4	22.5	23.2	23.7	23.8	22.8
2010	21.3	21.4	22.8	22.2	22.8	22.2	22.8	23.4	23.3	22.4

TABLE B.11.—(Cont.)

Year	Sabine Lake	Galveston	Matagorda	East Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
2011	22.1	22.1	22.6	22.7	22.8	23.1	23.1	23.2	24.1	22.8
2012	23.0	22.7	23.3	23.9	23.7	24.0	24.0	24.5	25.1	23.8
2013	21.9	21.7	22.3	22.3	22.0	22.0	22.8	23.5	23.1	22.3
2014	21.3	21.5	21.7	21.7	21.8	21.9	22.3	22.9	23.1	22.0
2015	22.1	22.2	23.2	22.6	22.7	22.9	22.8	23.6	23.8	22.8
2016	23.3	23.2	24.1	23.6	23.9	23.4	24.2	24.5	24.6	23.8

TABLE B.12.—Annual mean bottom turbidity at sampled bay trawl sites in Texas bay systems from 1983-2016. ND = no data.

Year	Sabine Lake	Galveston	Matagorda	East Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jackson Turbidity Units										
1983	ND	134	ND	36	37	130	100	127	62	89
1984	ND	75	ND	30	33	71	57	62	40	53
1985	ND	44	ND	31	57	46	33	56	56	44
1986	31	37	ND	42	57	38	39	44	54	42
Nephelometric Units										
1987	13	17	20	24	30	7	12	15	11	17
1988	15	14	19	24	19	13	11	13	14	16
1989	17	19	25	17	27	19	12	12	13	18
1990	14	18	20	16	25	17	9	16	11	17
1991	17	19	22	19	24	22	9	11	8	17
1992	17	19	17	21	35	31	10	10	17	21
1993	17	27	17	18	21	25	10	12	48	21
1994	16	20	14	12	17	17	8	9	14	14
1995	17	22	24	20	19	17	10	15	21	18
1996	14	15	26	18	36	13	11	16	15	18
1997	16	20	29	22	38	17	11	24	16	22
1998	19	18	24	17	36	30	19	30	14	23
1999	24	18	35	17	23	17	9	32	8	19
2000	17	25	38	18	21	22	10	27	9	20
2001	24	20	23	21	30	20	11	32	14	21
2002	27	22	26	20	28	34	13	36	21	25
2003	24	22	39	17	17	22	9	21	19	20
2004	23	35	41	29	29	16	9	19	11	24
2005	19	29	25	17	17	13	13	16	16	18
2006	19	37	40	14	9	12	14	28	15	19
2007	20	40	31	26	24	20	13	38	14	25
2008	24	43	48	23	13	22	12	47	19	26
2009	27	31	40	28	10	15	16	31	31	23
2010	18	39	33	20	18	20	16	22	13	22
2011	13	29	48	20	11	18	12	36	13	21
2012	20	36	32	15	13	14	10	27	10	19
2013	19	14	30	18	15	17	15	28	10	17

TABLE B.12.— (Cont.)

Year	Sabine Lake	Galveston	Matagorda	East Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
2014	15	14	58	29	21	12	18	20	10	21
2015	19	18	34	26	31	15	14	28	14	22
2016	19	27	37	35	18	7	10	13	14	20

TABLE B.13.—Annual mean bottom salinity (‰) at sampled Gulf trawl sites in the Texas Territorial Sea 1985-2016. ND = no data.

Year	Sabine Lake	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
1985	ND	31.0	32.6	31.0	31.7	31.4
1986	29.2	29.8	32.3	30.7	32.7	31.1
1987	27.4	29.1	33.6	34.4	34.4	31.8
1988	27.3	29.4	30.7	32.5	34.9	30.9
1989	25.6	30.0	33.2	32.1	33.7	30.9
1990	25.3	29.5	30.7	32.4	33.8	30.4
1991	23.2	28.5	31.0	31.7	31.1	29.1
1992	26.5	29.4	32.0	32.6	30.7	30.2
1993	23.1	27.3	28.9	34.5	30.9	28.9
1994	21.8	27.1	27.8	31.7	33.9	28.5
1995	26.2	28.0	31.4	31.2	33.3	30.0
1996	26.4	30.2	31.7	34.4	34.5	31.4
1997	27.3	28.0	31.2	32.0	33.6	30.4
1998	28.9	29.5	31.9	32.6	34.4	31.5
1999	28.9	30.8	32.4	32.5	35.5	32.0
2000	31.6	33.3	32.9	33.5	35.4	33.3
2001	27.5	29.3	32.4	32.0	33.7	31.0
2002	26.6	27.1	30.3	30.5	33.0	29.5
2003	25.4	27.5	31.3	32.2	33.8	30.0
2004	25.5	28.6	31.0	30.9	33.6	29.9
2005	25.4	29.0	30.8	30.8	33.4	29.9
2006	28.8	29.9	32.2	33.1	34.2	31.6
2007	27.5	27.7	30.1	30.2	33.5	29.8
2008	26.2	27.9	31.7	31.6	33.9	30.3
2009	27.8	31.9	32.2	31.2	34.8	31.6
2010	26.5	28.9	31.2	29.7	33.2	29.9
2011	27.5	32.0	32.4	33.0	34.1	31.8
2012	28.5	32.7	32.6	32.7	32.7	31.8
2013	28.2	31.7	32.0	32.0	32.0	31.2
2014	26.8	29.8	32.5	33.1	31.8	30.8
2015	27.8	29.9	33.6	30.5	32.4	30.8
2016	26.1	30.3	31.7	28.9	32.4	29.9

TABLE B.14.—Annual mean bottom temperature (°C) at sampled Gulf trawl sites in the Texas Territorial Sea 1985-2016.
 ND = no data.

Year	Sabine Lake	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
1985	ND	23.6	24.5	23.3	25.4	24.0
1986	25.6	22.0	22.6	22.5	22.7	22.8
1987	21.1	21.8	21.6	22.2	22.0	21.7
1988	21.1	21.6	21.3	22.4	21.7	21.6
1989	19.5	21.4	21.4	21.9	21.6	21.1
1990	21.0	21.9	22.2	22.2	21.6	21.8
1991	21.6	22.0	21.8	22.4	21.5	21.9
1992	19.8	21.5	21.3	22.2	20.9	21.2
1993	21.8	21.7	22.0	21.6	21.4	21.7
1994	22.2	22.0	22.0	22.3	22.0	22.1
1995	21.8	22.1	22.4	22.3	22.4	22.2
1996	21.6	21.8	21.9	21.8	21.1	21.6
1997	21.5	21.3	21.1	21.0	20.4	21.1
1998	22.8	22.4	22.7	22.4	22.4	22.5
1999	22.9	23.2	22.8	23.7	22.7	23.0
2000	22.3	22.3	22.4	22.4	21.9	22.3
2001	22.2	22.2	22.3	22.4	21.2	22.1
2002	22.1	22.7	22.7	22.8	21.6	22.4
2003	22.3	22.4	22.3	22.9	21.0	22.2
2004	22.5	22.4	23.0	23.4	20.4	22.3
2005	22.2	22.7	22.7	23.0	23.0	22.7
2006	22.8	23.6	23.2	23.7	22.8	23.2
2007	22.4	22.3	22.6	22.9	22.6	22.5
2008	22.2	22.6	22.3	22.4	22.1	22.3
2009	22.4	22.3	22.6	22.3	22.4	22.4
2010	21.7	21.0	22.1	22.5	22.1	21.9
2011	22.0	20.7	22.2	22.6	22.6	22.0
2012	23.3	21.9	23.5	23.6	23.4	23.1
2013	22.1	19.2	21.8	22.2	22.4	21.6
2014	21.6	21.6	21.3	21.6	21.6	21.5
2015	22.5	22.3	22.3	22.5	22.5	22.4
2016	23.3	23.1	23.3	23.7	23.4	23.4

TABLE B.15.—Annual mean bottom turbidity at sampled Gulf trawl sites in the Texas Territorial Sea 1985-2016.
 ND = no data.

Year	Sabine Lake	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
Jackson Turbidity Units						
1985	ND	32	39	25	24	29
1986	30	24	29	24	24	26
Nephelometric Units						
1987	10	10	12	4	6	8
1988	7	9	10	4	4	7
1989	7	9	8	7	4	7
1990	9	11	8	8	3	8
1991	11	12	7	8	3	8
1992	13	10	9	10	4	9
1993	11	6	9	7	4	8
1994	11	8	5	5	4	6
1995	13	13	7	5	4	9
1996	14	9	9	6	3	8
1997	13	8	5	9	5	8
1998	20	5	8	9	4	9
1999	21	9	7	7	3	9
2000	23	10	8	7	4	10
2001	25	7	6	6	3	9
2002	30	13	5	6	4	12
2003	31	7	9	4	10	12
2004	16	7	4	7	7	8
2005	14	9	3	3	4	7
2006	15	9	2	5	9	8
2007	18	12	4	6	4	9
2008	18	11	5	7	5	9
2009	18	8	6	15	4	10
2010	18	7	7	10	2	9
2011	24	10	9	7	3	11
2012	14	7	6	3	4	7
2013	16	7	9	6	3	8
2014	15	4	6	6	3	7

TABLE B.15.—(Cont.)

Year	Sabine Lake	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
2015	16	7	13	8	3	9
2016	15	9	5	6	4	8

Appendix C. Summary of SEAMAP samples by year and depth zone for brown shrimp, white shrimp, pink shrimp, and blue crab collected off Texas from 1985 to 2014.

TABLE C.1.—Mean catch rates (No./h) and mean size (mm) of select shellfishes caught during SEAMAP^a sampling off Texas during June 1985-2014. Blanks indicate no measurement taken.

Year	Depth (m)	Samples (No.)	Brown Shrimp		White Shrimp		Pink Shrimp		Blue Crab	
			No./h	Length	No./h	Length	No./h	Length	No./h	Length
1985	0-18	6	38	114	8.00	170	0		3.33	131
	19-37	10	721	108	0		0		4.00	127
1986	0-18	63	22	104	5.42	161	0.67	126	8.08	128
	19-37	17	51	112	0		1.06	113	0	
1987	0-18	63	59	102	6.08	155	1.90	110	1.33	141
	19-37	17	39	110	4.58	161	1.41	131	1.76	168
1988	0-18	68	122	104	4.05	138	9.60	105	4.05	108
	19-37	12	38	110	0		0.50	98	2.00	140
1989	0-18	63	402	97	5.13	161	7.70	100	4.85	112
	19-37	17	901	101	0.35	170	2.47	121	2.11	144
1990	0-18	69	129	107	5.99	164	0.26	119	10.24	103
	19-37	11	206	113	0		0		0	
1991	0-18	66	35	89	9.53	143	0.45	115	7.80	79
	19-37	14	76	113	0.43	175	0.43	120	0	
1992	0-18	63	60	91	9.03	145	1.14	126	2.28	111
	19-37	17	13	105	0		0		0.35	66
1993	0-18	68	58	101	4.40	158	11.80	114	4.67	122
	19-37	12	20	104	0		1.50	116	0.50	121

TABLE C.1.—(cont.)

Year	Depth (m)	Samples (No.)	Brown Shrimp No./h Length		White Shrimp No./h Length		Pink Shrimp No./h Length		Blue Crab No./h Length	
1994	0-18	71	23	99	3.54	149	2.53	100	3.46	120
	19-37	9	53	102	0		9.98	102	0.67	102
1995	0-18	65	171	100	6.26	154	1.57	102	3.22	93
	19-37	15	28	107	0		0.80	96	0	
1996	0-18	62	23	97	3.57	155	0.68	124	2.32	94
	19-37	18	19	104	0.33	162	2.33	99	3.66	69
1997	0-18	60	64	94	1.60	157	0.50	115	3.99	86
	19-37	20	24	101	0		1.50	101	0.30	60
1998	0-18	66	175	97	10.43	159	2.36	104	1.27	98
	19-37	14	51	120	0		2.57	94	0	
1999	0-18	59	23	99	8.93	156	0.30	86	0.30	93
	19-37	21	83	94	0		0.57	106	0.29	159
2000	0-18	63	69	101	11.22	156	3.23	117	2.09	79
	19-37	17	12	117	0		3.17	108	0	
2001	0-18	68	76	108	3.61	172	0.97	119	2.82	68
	19-37	12	57	106	0.50	163	2.00	125	0	
2002	0-18	65	53	96	9.95	147	0.09	138	0.92	78
	19-37	15	15	101	0		0.80	127	3.59	46
2003	0-18	63	92	96	11.88	162	0.19	87	0.76	102
	19-37	17	130	102	1.76	162	3.17	106	3.17	117

TABLE C.1.—(cont.)

Year	Depth (m)	Samples (No.)	Brown Shrimp No./h Length		White Shrimp No./h Length		Pink Shrimp No./h Length		Blue Crab No./h Length	
2004	0-18	66	70	99	14.97	160	5.72	91	0.54	137
	19-37	14	65	116	1.71	183	5.99	95	0	
2005	0-18	59	55	91	15.22	163	0.20	128	0.71	122
	19-37	13	34	95	0		3.68	106	0	
2006	0-18	60	23	99	6.89	162	2.50	128	1.10	122
	19-37	20	16	104	0		0.30	77	0	
2007	0-18	64	221	90	18.99	156	1.96	127	1.87	110
	19-37	16	200	108	1.12	168	0.37	100	0	
2008	0-18	70	67	85	16.08	163	8.21	127	2.48	118
	19-37	10	2	108	2.99	177	1.20	120	0	
2009	0-18	62	19	92	21.25	153	0		1.64	136
	19-37	18	87	95	0.67	172	0.67	143	0	
2010	0-18	65	52	82	15.29	162	1.11	138	0.55	95
	19-37	15	21	105	0		11.98	116	0.80	153
2011	0-18	65	131	90	26.99	178	14.65	132	0.64	123
	19-37	15	99	126	9.18	190	37.92	128	1.60	169
2012	0-18	65	27	88	14.09	163	0.09	77	0.55	106
	19-37	15	2.4	112	0.4	166	0.8	135	0	
2013	0-18	62	85	94	15.74	156	1.93	129	0.19	77
	19-37	18	71	111	2.99	171	1.33	107	1.00	29

TABLE C.1.—(cont.)

Year	Depth (m)	Samples (No.)	Brown Shrimp No./h Length		White Shrimp No./h Length		Pink Shrimp No./h Length		Blue Crab No./h Length	
2014	0-18	59	43	91	20.50	167	0.51	114	0.71	70
	19-37	20	28	107	3.59	176	1.50	108	0	

^a Data presented here were collected with 6.1-m trawls by TPWD research vessels, SEAMAP protocol discontinued after 2014.

TABLE C.2.—Mean catch rates (No./h) and mean size (mm) of select shellfishes caught during SEAMAP^a sampling off Texas during November 1985-2014. Blanks indicate no measurement taken.

Year	Depth (m)	Samples (No.)	Brown shrimp		White shrimp		Pink shrimp		Blue crab	
			No./h	Length	No./h	Length	No./h	Length	No./h	Length
1985	0-18	47	3.57	92	36.68	117	2.47	109	0	
	19-37	17	10.35	115	3.53	151	3.29	118	0	
1986	0-18	59	0.41	85	35.32	108	0.81	98	0.20	64
	19-37	21	1.43	102	4.56	125	0.57	101	0	
1987	0-18	62	5.79	94	70.12	104	5.99	95	0	
	19-37	18	34.26	101	6.32	130	1.33	100	0	
1988	0-18	61	9.42	94	26.11	109	4.42	99	0.20	48
	19-37	11	5.44	103	33.21	122	1.63	94	0	
1989	0-18	60	6.39	96	73.65	100	6.09	110	2.40	45
	19-37	20	14.97	111	27.84	117	8.68	110	0	
1990	0-18	61	2.45	101	27.39	110	1.87	112	0.20	75
	19-37	19	10.4	109	0.95	138	3.15	119	0	
1991	0-18	64	0.09	65	14.41	110	0.09	97	0.28	52
	19-37	16	6.36	120	4.12	145	1.87	111	0	
1992	0-18	69	5.12	103	79.49	107	0.78	107	0.26	34
	19-37	11	5.99	115	3.81	148	0.54	117	0	
1993	0-18	64	1.22	103	89.91	96	4.40	120	2.34	46
	19-37	16	7.11	104	11.98	145	5.61	114	0	

TABLE C.2.—(cont.)

Year	Depth (m)	Samples (No.)	Brown shrimp		White shrimp		Pink shrimp		Blue crab	
			No./h	Length	No./h	Length	No./h	Length	No./h	Length
1994	0-18	66	0.18	109	13.34	104	0.27	142	0.91	92
	19-37	14	6.42	99	3.42	124	2.57	119	0	
1995	0-18	73	0.16	118	53.15	102	1.56	116	2.95	54
	19-37	7	0		15.40	134	3.42	93	0	
1996	0-18	66	2.09	89	64.51	108	4.54	115	1.00	55
	19-37	14	4.70	114	30.80	120	18.39	122	0	
1997	0-18	68	0.53	84	51.16	106	1.76	122	8.10	73
	19-37	12	32.44	110	12.97	129	6.99	107	0	
1998	0-18	61	1.47	84	26.90	115	1.87	112	1.47	64
	19-37	19	2.21	82	11.66	133	2.52	127	0	
1999	0-18	62	2.03	100	21.92	103	1.74	109	0.29	55
	19-37	10	5.39	108	4.19	146	0		0	
2000	0-18	62	2.12	99	54.18	107	2.51	113	0	
	19-37	15	46.31	106	8.38	145	8.78	112	0	
2001	0-18	63	0.19	63	15.11	112	0.10	80	0	
	19-37	17	2.47	124	1.06	162	2.82	132	0	
2002	0-18	66	1.81	73	72.76	100	0.54	119	4.08	47
	19-37	14	8.13	96	1.28	136	7.27	117	0	
2003	0-18	69	1.82	85	15.88	109	5.21	121	0	
	19-37	11	21.23	106	3.81	116	28.31	114	0	

TABLE C.2.—(cont.)

Year	Depth (m)	Samples (No.)	Brown shrimp		White shrimp		Pink shrimp		Blue crab	
			No./h	Length	No./h	Length	No./h	Length	No./h	Length
2004	0-18	57	2.00	75	37.61	105	0.21	90	0.84	46
	19-37	16	1.87	101	20.58	126	0		0	
2005	0-18	68	0.53	92	18.76	129	0.09	87	0	
	19-37	12	2.50	119	0		0.50	143	0	
2006	0-18	64	3.56	94	131.74	110	0.28	118	0.19	45
	19-37	16	17.59	116	1.50	163	0.75	102	0	
2007	0-18	66	0.91	98	38.11	103	0.73	116	0.09	26
	19-37	14	2.14	120	1.28	162	0.43	136	0	
2008	0-18	69	2.69	76	43.39	108	0.09	103	0	
	19-37	11	3.27	99	0		0		0	
2009	0-18	69	0.26	92	18.14	112	0		0.09	41
	19-37	11	1.09	92	0.54	189	3.81	127	0	
2010	0-18	60	1.10	89	31.94	121	0		0.10	35
	19-37	20	3.29	119	1.20	141	0.30	104	0	
2011	0-18	62	0.48	95	37.18	112	0		0	
	19-37	18	1.33	115	2.99	167	0		0	
2012	0-18	55	2.18	90	10.13	108	0		0	
	19-37	25	3.83	95	3.11	159	0.24	185	0	
2013	0-18	62	1.55	111	35.16	114	1.74	146	0.1	71
	19-37	18	4.99	125	6.99	148	2.99	115	0	

TABLE C.2.—(cont.)

Year	Depth (m)	Samples (No.)	Brown shrimp		White shrimp		Pink shrimp		Blue crab	
			No./h	Length	No./h	Length	No./h	Length	No./h	Length
2014	0-18	55	0.33	151	48.34	123	1.52	138	0	
	19-37	25	2.16	109	27.07	160	4.31	129	0	

^a Data presented here were collected with 6.1-m trawls by TPWD research vessels, SEAMAP protocol discontinued after 2014.

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