Trends in Relative Abundance and Size of Selected Finfishes and Shellfishes Along the Texas Coast: November 1975 - December 1988

by
Jerry M. Mambretti
James A. Dailey
and
Lawrence W. McEachron

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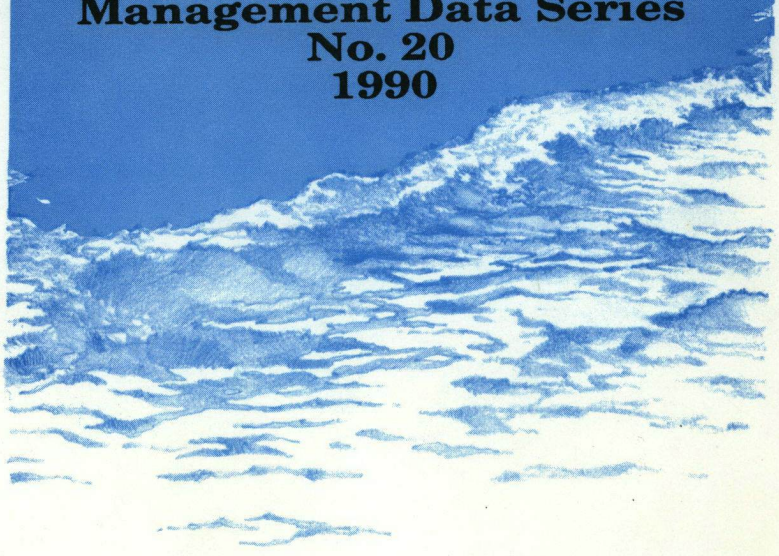

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ABSTRACT

Trends in relative abundance and size of red drum (Sciaenops ocellatus), spotted seatrout (Cynoscion nebulosus), black drum (Pogonias cromis), sheepshead (Archosargus probatocephalus), southern flounder (Paralichthys lethostigma), Atlantic croaker (Micropogonias undulatus), sand seatrout (C. arenarius), gafftopsail catfish (Bagre marinus), Gulf menhaden (Brevoortia patronus), hardhead catfish (Arius felis), pinfish (Lagodon rhomboides), spot (Leiostomus xanthurus), striped mullet (Mugil cephalus), brown shrimp (Penaeus aztecus), white shrimp (P. setiferus), pink shrimp (P. duorarum), blue crab (Callinectes sapidus), and Eastern oyster (Crassostrea virginica) have been monitored since 1975 using a standardized fishery independent sampling program in Texas bay systems. Bag seines were used along bay and gulf shorelines, gill nets along bay shorelines, beach seines along gulf shorelines, and trawls in bay water $\geq$1.0 m deep and in the Texas Territorial Sea (gulf water $\geq$1.8 m deep). Oyster dredges were used to sample in bay "reef" and "non-reef" areas. Compared to 1987, spring and fall 1988 gill net catch rates for red drum increased and for spotted seatrout remained the same. Black drum spring gill net catch rates decreased whereas fall rates increased compared to 1987. The 1988 annual bag seine catch rates decreased for all three species. Coastwide brown shrimp catch rates decreased in bag seines and bay trawls in 1988, but increased in gulf trawls. White shrimp catch rates declined in bag seines, bay trawls and gulf trawls. Pink shrimp catch rates increased in bag seines, bay trawls, and gulf trawls during 1988. Catch rates of blue crabs increased from 1987 in bag seines and bay trawls, but remained the same in gulf trawls. Highest catches of market Eastern oysters occurred during October. The 1988 data continue to reveal that impacts of management decisions based on optimum yield, effects of catastrophic events, and stock recruitment relationships can be measured by using estimates of relative abundance based on the fishery independent monitoring program.

INTRODUCTION

Fisheries management has become more complicated because of increased numbers of commercial and recreational fishermen harvesting the same species. Commercial and recreational fishermen in the United States have increased fishing pressure on marine finfish stocks in recent years. Marine landings of finfishes by commercial fishermen increased from 2 billion kg in 1955 to 3 billion kg in 1980 (Anderson and Power 1957, United States Department of Commerce 1982). The number of recreational saltwater anglers tripled during the same period (United States Department of Interior 1956, United States Department of Interior and United States Department of Commerce 1982).

Monitoring program data are used to determine relative abundance and size of finfishes and shellfishes to allocate and regulate the harvest. Eastern oyster populations have been monitored in Galveston Bay since 1951 (Hofstetter 1977). Penaeid shrimp populations have been monitored in at least some bays since 1958 (Benefield and Baker 1980). Blue crab populations have been monitored in Texas bay systems since 1977 (Hammerschmidt 1982). The Texas Parks and Wildlife Department (TPWD) initiated a standardized fishery independent monitoring program in 1975 using gill nets, in 1977 using bag seines, in 1982 using trawls in bays, in 1984 using oyster dredges in "reef" and "non-reef" bay areas, in 1985 using trawls in the gulf, and in 1987 using beach seines to monitor trends and to assess relative abundance and size of finfishes and shellfishes. Gill net sets during spring (15 April-15 June) and fall (15 September-15 November), and monthly bag seine, trawl, oyster dredge, and beach seine samples provide a statistically consistent and cost efficient method for obtaining information on juvenile, sub-adult, and adult finfish and shellfish populations.

The objectives of the present study were to:

1. determine and monitor trends in species composition, size and relative abundance of selected finfishes and shellfishes in the coastal bay systems and in the gulf off Texas.

2. publish the results in a report which will assist resource managers to effectively manage selected finfishes and shellfishes.

Differences in the information in this report compared to previous versions are due to updating the data base. The present report should be considered the most accurate to date.

MATERIALS AND METHODS

Monofilament gill nets (183 m long; 1.2 m deep with separate 45.7-m sections of 7.6-, 10.2-, 12.7- and 15.2-cm stretched mesh tied together in ascending mesh size) were used in nine Texas bay systems during November 1975 through December 1988; Sabine Lake was incorporated April 1986 (Figures 1-9). Bag seines (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) were used in the nine bays during October 1977 through December 1988; East Matagorda Bay was added February 1983 and Sabine Lake January 1986.

Trawls (6.1 m wide at mouth with 3.8-cm stretched mesh throughout, and doors 1.2 m long and 0.6 m tall) were used in the nine bays during January 1982-December 1988; Sabine Lake was added January 1986 and East Matagorda Bay April 1987. Trawls, identical to those used in the bays, were used in the Texas Territorial Sea (≤16.7 km from shore) during January 1986-December 1988 (Figure 10). Five gulf areas were selected for sampling: 24.1 km either side of each of the Sabine Pass jetties (Sabine), Galveston jetties (Galveston), Matagorda jetties (Port O'Connor), and Aransas Pass jetties (Port Aransas), and 48.2 km north from the Texas-Mexico border (Port Isabel). Oyster dredges [8-tooth Louisiana style: 46 cm wide, 25 cm tall with a 36-cm deep bag (6 bottom rows of linked metal rings 5 cm in diameter; four top rows of 7.6-cm mesh webbing made of 0.8-cm nylon rope)] were used in the nine bays during January 1986-December 1988. Bag seines and beach seines (60.9-m long; 1.8-m deep with 7.6-cm stretched #12 monofilament mesh) were used along gulf beach shorelines in five areas: Sabine Pass-Bolivar Peninsula, Galveston Island-Follets Island-Surfside Beach, Matagorda Peninsula, Matagorda Island-San Jose Island, and Mustang Island-South Padre Island (Figure 10).

Prior to September 1984, sites for setting gill nets during spring (15 April-15 June) and fall (15 September-15 November) and for sampling with bag seines (monthly) were randomly selected from about 100 stations in each bay system (McEachron and Green 1985). Beginning September 1984, gill net, bag seine, and beach seine sites were randomly selected from grids (1 minute longitude by 1 minute latitude) that contained ≥15.2 m of shoreline. Each selected grid was subdivided into 144 5-second "gridlets". All "gridlets" that contained shoreline were used to randomly choose sample sites.

Prior to fall 1981, no less than eight nor more than 16 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, eight sets were made in each season. Not less than three nor more than seven gill nets were set each week during each season except in East Matagorda Bay. No more than nine stations were duplicated each season. Prior to September 1984, two gill nets were set in East Matagorda Bay during the first and last two fullest weeks of each month. Beginning in fall 1984, two gill nets were set in East Matagorda Bay during each week of the fall and spring seasons. Gill nets were set perpendicular to shore with the smallest mesh shoreward; they were set within 1 h before sunset and were retrieved within 4 h after the following sunrise. Total fishing time was recorded to the nearest 0.1 h. Each sampling week extended from 1 h before sunset on Sunday through 4 h after sunrise the following Sunday.

Prior to October 1981, six bag seine samples were collected each month in each bay system. During October 1981 through August 1984 10 bag seine samples were collected each month in each bay system with half of the samples being collected during each of the first and last two fullest weeks of each month (McEachron and Green 1985). Beginning September 1984, five stations were sampled during the 1st-15th and during the 16th-31st of each month. Since April 1988, 6 bag seines samples were collected during the 1st-15th and during the 16th-31st of each month in each bay system. No station was duplicated in a month. Bag seines were pulled parallel to shore for a distance of 15.2-30.5 m prior to September 1984. Beginning September 1984,

all bag seines were pulled 15.2 m. Beginning October 1987, 3 bag seine samples were collected during the 1st-15th and during the 16th-31st of each month along gulf beach shoreline areas. The rectangular surface area sampled (nearest 0.01 ha) was estimated using distance pulled and length of extension of the bag seine.

Beginning October 1987, 6 beach seine samples were collected each month along gulf beach shoreline areas. Three beach seine samples were collected during each of the 1st-15th and 16th-31st of each month. No station was duplicated. Beach seine samples were pulled parallel to gulf shorelines in the same direction as the long-shore current for 30.5 m. The rectangular surface area sampled (nearest 0.01 ha) was estimated using distance pulled and length of extension of the beach seine.

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 each zone were randomly selected from bay grids (1-minute longitude by 1-minute latitude) that contained water $\geq$1 m deep in at least 1/3 of the grid and which were known to be free of obstructions. Five stations were sampled in each of Zone 1 and Zone 2 in each bay system during the 1st-15th and during the 16th-31st of each month except in the upper and lower Laguna Madre systems. In both upper and lower Laguna Madre all water was designated as Zone 2. No station was duplicated in a month. Trawls were pulled in a circular motion near the center of each grid. All tows were 10 minutes long.

Gulf trawl sites in each area were randomly selected from gulf grids in the TTS (Figure 10) that contained water $\geq$1.8 m deep in at least 1/3 of the grid and which was known to be free of obstructions. Eight stations were sampled in each area during the 1st-15th and during the 16th-31st of each month. No station was duplicated in a month. Trawls were pulled linearly, parallel to the fathom curve and the direction of tow (north or south) was randomly chosen for the initial tow and alternated on subsequent tows. All tows were 10 minutes long.

Trawls were used during daylight hours in the gulf off Sabine Pass, Galveston, Port O'Connor, Port Aransas, and Port Isabel during June and November 1988 in conjunction with the Southeast Area Monitoring and Assessment Program (SEAMAP). Detailed descriptions of the gear, sample stations, and sample procedures are reported by Stuntz et al. (1984).

Each bay was stratified into "reef" (mapped area in which Eastern oysters form reefs and are $\geq$0.2 m higher than adjacent bottom for a continuous distance of $\geq$91.4 m long and 0.4 m wide) and "non-reef" (remaining bay bottom $\geq$1 m deep) areas. Oyster dredge sites in each "reef" and "non-reef" area were randomly selected from bay grids. Each selected grid was divided into 144 5-second "gridlets". All "gridlets" that contained the respective "reef" or "non-reef" area were used to randomly choose sample sites. During the 1st-15th and 16th-31st of each month, 38 stations (28 "reef"; 10 "non-reef") were sampled in each of Galveston and Aransas Bays; 23 stations (13 "reef"; 10 "non-reef") were sampled in each of East Matagorda, Matagorda, San Antonio, and Corpus Christi Bays; 15 stations (5 "reef"; 10 "non-reef") were sampled in

each of Sabine Lake and lower Laguna Madre; and 10 stations (10 "non-reef") were sampled in upper Laguna Madre. Stations ("reef" and "non-reef") were duplicated no more than twice each month except in Sabine Lake and lower Laguna Madre where 5 replicate "reef" tows were made in each bay. Dredges were pulled linearly for 30 seconds.

Each sampling week for bag seines, beach seines, trawls and oyster dredges extended from sunrise Monday through sunset the following Sunday. Collections were made during daylight hours only.

Catch rates for red drum (Sciaenops ocellatus), spotted seatrout (Cynoscion nebulosus), black drum (Pogonias cromis), sheepshead (Archosargus probatocephalus), southern flounder (Paralichthys lethostigma), Atlantic croaker (Micropogonias undulatus), blue crab (Callinectes sapidus), brown shrimp (Penaeus aztecus), white shrimp (P. setiferus), pink shrimp (P. duorarum), Eastern oyster (Crassostrea virginica), "other finfishes", and "total finfishes" were calculated by dividing total number of each species captured by total hours fished (gill net, trawl, and oyster dredge) or ha sampled (bag seine and beach seine) from all samples in a season (gill net) or month (bag seine, beach seine, trawl, and oyster dredge) for each bay system. Fishes 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 ($\geq$76 mm). Coastwide catch rates were weighted by the length of each bay system's shoreline (gill net, bay bag seine), by the amount of surface area with water $\geq$1 m deep (Matlock and Ferguson 1982) in each bay system (bay trawl), by total number of trawlable grids (gulf trawl) by number of "reef" or "non-reef" grids (oyster dredge), or by number of gulf shoreline grids (beach seine and beach bag seine). Bay bag seine, trawl, oyster dredge, beach seine and beach bag seine annual catch rates were calculated from monthly means (unweighted by sample size).

Total lengths (nearest 1 mm) of fishes (tip of snout with mouth closed to the tip of longest caudal ray with caudal fin compressed) and crabs (carapace width measured from spine to spine) caught in gill nets were obtained for the first 19 individuals of each species caught in each mesh size each week in each bay system during seasonal sampling. Mean fish lengths in gill nets were calculated for each of the four mesh sizes in each sample. Mean lengths for the combined meshes were calculated by weighting the mean lengths in each mesh by the proportion of species caught in each mesh. Total lengths of fishes, crabs, and shrimps (tip of rostrum to tip of telson) caught in bag seines and beach seines were obtained from random selection of no more than 19 individuals of each species in each sample. Total lengths of fishes greater than 204 mm were eliminated from bag seine mean length calculations based on the findings of McEachron and Green (1986). Total lengths of selected shrimps and blue crab caught in trawls were obtained from random selection of no more than 50 shrimp of each of brown shrimp, white shrimp, and pink shrimp and 35 blue crabs in each sample. Total lengths (hinge to bill) of Eastern oysters caught in oyster dredges were obtained from a random selection of no more than 19 live oysters in each sample. Coastwide lengths for all gears were weighted according to the catch rate in each bay system.

Surface salinity, water temperature, dissolved oxygen, and turbidity were measured at the set and pickup for each gill net and prior to each bag seine and beach seine sample. Bottom salinity, water temperature, and turbidity were measured prior to each trawl and oyster dredge sample. Beginning January 1987 turbidity values were measured in Nephelometric Units (NTU) instead of Jackson Turbidity Units (JTU). Means for these parameters were calculated for each season (gill net) and for each month (bag seine, trawl, oyster dredge, and beach seine).

RESULTS

Gill Net

The highest spring coastwide red drum catch rate (0.8/h) occurred in 1980, 1986 and 1988 (Table 1). Lowest catch rates occurred in 1977-1979 (0.3/h). Catch rates in all other years ranged from 0.4-0.7/h. Catch rates within each bay system ranged from <.1/h to 1.4/h.

The highest fall coastwide catch rate for red drum (1.0/h) occurred in 1979; the lowest catch rate (0.5/h) occurred in 1982 and 1983 (Table 2). All other fall catch rates varied from 0.6-0.9/h. Generally, fall catch rates from the upper Laguna Madre (0.2-0.7/h) have been consistently lower than in any other bay system.

Spring coastwide spotted seatrout catch rates were highest (1.1/h) in 1976 (Table 1). Catch rates declined through 1979 to 0.3/h. They increased through 1982 to 0.9/h; catch rates then declined to 0.3/h in 1984, and increased through 1988 to 0.7/h. Catch rates in the lower Laguna Madre (0.6-3.4/h) were generally higher than in any other bay system.

The highest fall coastwide spotted seatrout catch rate (0.7/h) occurred in 1976 (Table 2). All catch rates since 1977 have ranged from 0.2-0.4/h. Fall catch rates within each bay system ranged from 0.1-2.4/h.

Spring coastwide black drum catch rates were highest (1.0/h) in 1983 (Table 1). They were lowest (0.3/h) in 1978. Catch rates ranged from 0.4 to 0.7/h in all other years. Catch rates within each bay system ranged from <.1-2.7/h.

The highest fall coastwide black drum catch rate (1.0/h) occurred in 1982 (Table 2). The lowest catch rate (0.3/h) occurred in 1979 and 1984. Catch rates in all other years ranged from 0.4-0.9/h. East Matagorda Bay and lower Laguna Madre catch rates (0.1-2.4/h) were generally higher than in any other bay system.

Fall and spring coastwide sheepshead catch rates were $\leq$0.3/h each year (Tables 1 and 2). Catch rates within each bay system ranged from 0.0-0.6/h and from 0.0-1.1/h during spring and fall, respectively.

Spring and fall coastwide southern flounder catch rates were ≤0.2/h during all years (Tables 1 and 2). Catch rates within each bay system were ≤0.3/h except for East Matagorda Bay during fall 1976 (0.5/h).

The highest spring coastwide Atlantic croaker catch rate (0.3/h) occurred in 1976; catch rates were ≤0.2/h in all other years (Table 1). Catch rates within each bay system ranged from 0.0-1.0/h.

The highest fall coastwide Atlantic croaker catch rate (0.4/h) occurred in each of 1982, 1983, 1986 and 1987 (Table 2). Catch rates in all other years ranged from 0.1-0.3/h. Corpus Christi Bay generally had highest catch rates (0.4-1.7/h).

Spring and fall coastwide catch rates of "other finfishes" ranged from 0.5-1.2/h in all years (Tables 1 and 2). Catch rates in each bay system ranged from 0.0-2.7/h. Generally, catch rates in the upper Laguna Madre were lower (<.1-0.5/h) than in any other bay system during both fall and spring.

Spring and fall coastwide "total finfishes" catch rates ranged from 3.7-7.3/h in all years (Tables 1 and 2). Catch rates in each bay system ranged from 1.1-11.1/h. Generally, highest catch rates (4.6-11.1/h) were recorded in Galveston Bay during spring in all years.

Spring and fall coastwide blue crab catch rates were ≤ 0.2/h in all years (Tables 1 and 2). Catch rates among bay systems during spring ranged from < 0.1/h in upper Laguna Madre during 1986 and 1987 to 0.6/h in East Matagorda during 1986. Catch rates during fall were ≤ 0.3/h in all bay systems.

Spring and fall coastwide mean lengths did not vary over about 125 mm among years for any species (Tables 1 and 2). Red drum mean lengths ranged from 372-500 mm. Spotted seatrout mean lengths ranged from 422-495 mm. Black drum mean lengths ranged from 341-474 mm. Sheepshead mean lengths ranged from 297-382 mm. Southern flounder mean lengths ranged from 322-363 mm. Atlantic croaker mean lengths ranged from 263-323 mm.

Highest catch rates for red drum, spotted seatrout, Atlantic croaker, "other finfishes", and "total finfishes" occurred in the 7.6-and 10.2-cm meshes (Appendix A, Tables A.1-A.18). Black drum, sheepshead and southern flounder catch rates in the 12.7- and 15.2-cm meshes generally equaled or exceeded catch rates in the 7.6- and 10.2-cm meshes. Largest fish of each species were generally caught in the 12.7- and 15.2-cm meshes.

Bay Bag Seine

Coastwide red drum catch rates were highest (20-26/ha) during 1980-1983 and 1987, and lowest (6/ha) in 1984; they ranged from 7-18/ha in all other years (Table 3). Catch rates among bay systems ranged from 1/ha in upper Laguna Madre in 1982 and 1985 and Aransas Bay in 1986 to 59/ha in Galveston Bay in 1980.

Coastwide spotted seatrout catch rates were highest (15/ha) in 1982 and lowest (4/ha) in 1984; they ranged from 5-14/ha in all other years (Table 3). Catch rates among bay systems ranged from <1/ha in lower Laguna Madre in 1980 to 37/ha in Galveston Bay in 1979 and 1982.

Coastwide black drum catch rates were highest (13-16/ha) in 1978 and 1979 (Table 3). Lowest catch rate (1/h) was recorded in 1986. Highest bay system catch rates occurred in Galveston Bay (1-40/ha); catch rates in all other bay systems were generally ≤12/ha except San Antonio Bay in 1978 (22/ha), lower Laguna Madre in 1979 (18/ha), and upper Laguna Madre in 1987 (44/ha).

Highest coastwide sheepshead catch rate (6/ha) occurred in 1979; all other catch rates were ≤1/ha (Table 3). Individual bay system catch rates were ≤3/ha except in Galveston Bay (15/ha), San Antonio Bay (6/ha), and Corpus Christi Bay (13/ha) during 1979.

Coastwide southern flounder catch rates were highest in 1982 (8/ha). All other catch rates ranged from 1-6/ha (Table 3). Individual bay system catch rates were ≤15/ha except in Aransas Bay (18/ha) in 1982, in Matagorda Bay (19/ha) in 1986, and in Galveston Bay in 1987 (20/ha).

Coastwide Atlantic croaker catch rates were highest in 1982 (471/ha) and 1984 (402/ha) and lowest (113/ha) in 1987 (Table 3). All other catch rates ranged from 122-364/ha. Galveston Bay generally had highest catch rates (148-1,812/ha) during all years.

Coastwide catch rates for "other finfishes" ranged from 692/ha in 1987 to 1,591/ha in 1979 (Table 3). Bay system catch rates ranged from 236/ha in Matagorda Bay in 1988 to 3,419/ha in Aransas Bay in 1982.

Highest coastwide catch rate (5,242/ha) for "total finfishes" occurred in 1980; catch rates in all other years ranged from 2,028-4,188/ha (Table 3). Bay system catch rates ranged from 632/ha in Matagorda Bay in 1980 to 18,543/ha in Galveston Bay in 1980.

Coastwide blue crab catch rates fluctuated from 49/ha in 1978 to 113/ha in 1985 (Table 3). Catch rates among bay systems ranged from 10/ha in Matagorda Bay during 1978 to 193/ha in Aransas Bay during 1982.

Coastwide annual brown shrimp catch rates gradually increased from 1977 to 1982 (137-510/ha), then fluctuated during 1983-1986. Highest coastwide catch rate (611/ha) occurred in 1987 (Table 3). Catch rates among bay systems ranged from 53/ha in upper Laguna Madre during 1979 to 1,162/ha in Galveston Bay during 1987.

Highest coastwide pink shrimp catch rates occurred during 1988 (28/ha), 1982 (26/ha) and 1981 (24/ha); they ranged from 3-12/ha in all other years (Table 3). Highest catch rates generally occurred in Aransas Bay (0-135/ha) and Corpus Christi Bay (0-106/ha).

Highest coastwide annual white shrimp catch rate occurred during 1982 (1,277/ha); fluctuations between 242-755/ha occurred in all other years (Table 3). Catch rates among bay systems ranged from 2/ha in upper Laguna Madre during 1986 to 3,560/ha in Galveston Bay during 1982.

Coastwide monthly bag seine catch rates during January-December 1988 indicated seasonal peaks in abundance which were unique for each species (Appendix A, Table A.19). Red drum coastwide catch rates were highest during November of one year to March of the next year. Coastwide spotted seatrout catch rates were highest during July-November. Highest catch rates for black drum occurred in July and August. Coastwide sheepshead catch rates were highest during July. Highest coastwide southern flounder catch rates occurred during February-June. Coastwide Atlantic croaker catch rates were highest during February-May. Highest coastwide catch rates of "other finfishes" occurred in April and June-August. Coastwide catch rates for "total finfishes" were highest during February-September. Blue crab catch rates were highest during March-May. Brown shrimp catch rates were highest during May-July. Highest pink shrimp catch rates occurred during March, July and September-November. White shrimp catch rates were highest during July-November.

Bay Trawl

Coastwide annual blue crab bay trawl catch rates ranged from 17/h in 1987 to 22/h in 1988 (Table 4). Catch rates among bay systems ranged from 2/h in Corpus Christi during 1983 to 89/h in San Antonio Bay during 1988.

Coastwide brown shrimp catch rates were highest in 1987 and 1988 (46/h and 44/h, respectively) (Table 4). Catch rates among bay systems ranged from < 1/h in Sabine Lake during 1986 to 138/h in Aransas Bay during 1988.

Coastwide pink shrimp catch rates were ≤4/h in all years (Table 4). Catch rates among bay systems ranged from 0/h in Sabine Lake during 1986-88, Galveston Bay during 1984, and lower Laguna Madre during 1982 to 20/h in Aransas Bay during 1988.

Coastwide white shrimp catch rates decreased from 47/h in 1982 to 20/h in 1988 (Table 4). Catch rates among bay systems ranged from <1/h in lower Laguna Madre during 1988 to 88/h in Galveston Bay during 1982.

Coastwide monthly bay trawl shellfish catch rates during January-December 1988 indicated seasonal peaks in abundance varied among species (Appendix A, Table A.20). Blue crab catch rates were highest during March-June. Brown shrimp catch rates were highest during May-July. Highest catch rates of pink shrimp occurred during March-May and November. White shrimp catch rates were highest during August-November.

All other select finfish species coastwide and monthly catch rates and mean lengths varied among species, among bays, among years, and among months (Table 4; Appendix A, Table A.20).

Gulf Trawls

Coastwide blue crab gulf trawl catch rates were ≤3/h in all years (Table 5). The Sabine area generally had highest catch rates (2-4/h) except for Galveston in 1986 (6/h). Coastwide monthly catch rates were highest (4/h) during June (Appendix A, Table A.21).

Coastwide brown shrimp catch rates ranged from 9/h to 20/h in all years. Catch rates among gulf areas ranged from <1/h off Port Isabel in 1988 to 47/h off Port Aransas in 1985 (Table 5). Coastwide monthly catch rates were highest (108/h) during June (Appendix A, Table A.21).

Coastwide annual pink shrimp catch rates were ≤2/h in all years (Table 5). Catch rates among gulf areas ranged from 0/h off Sabine in 1986 and 1987, and off Galveston in 1987 and 1988 to 7/h off Port Aransas in 1988. Coastwide monthly catch rates were highest (8/h) during June (Appendix A, Table A.21).

Coastwide annual white shrimp catch rates decreased from 24/h in 1985 and 1986 to 12/h in 1988. Catch rates among gulf areas ranged from <1/h off Port Isabel in 1988 to 53/h off Galveston in 1985 and 1986 (Table 5). Coastwide monthly catch rates were highest (43/h) during December (Appendix A, Tables A.21).

Individual select finfish species coastwide and monthly catch rates and mean lengths varied among species, among gulf areas, and among months (Appendix A, Table A.21).

Oyster Dredge

"Reef"

Coastwide catch rates of Eastern oyster spat decreased from 1,144/h in 1987 to 959/h in 1988. Annual spat catch rates decreased in all bays in 1988 except in Galveston, Matagorda and San Antonio Bays. Catch rates among bay systems ranged from 26/h in Sabine Lake in 1986 to 4,269/h in Aransas Bay during 1987 (Table 6). Coastwide monthly catch rates were highest (1,190-1,367/h) during August-December (Appendix A, Table 22).

Coastwide catch rates of small Eastern oysters increased from 950/h in 1987 to 1,033/h in 1988. Annual catch rates of small oysters increased in all bays in 1988 except East Matagorda, San Antonio, Aransas and Corpus Christi Bays. Catch rates among bay systems ranged from 22/h in lower Laguna Madre during 1987 to 2,499/h in Aransas Bay during 1987 (Table 6). Coastwide monthly catch rates in 1988 were highest (1,370/h) during October (Appendix A, Table 22).

Coastwide catch rates of market Eastern oysters increased from 270/h in 1987 to 274/h in 1988. Annual market catch rates in 1988 increased in all bays except East Matagorda, San Antonio and Aransas Bays. Catch rates among

bay systems ranged from 3/h in lower Laguna Madre in 1987 to 674/h in Galveston Bay during 1985 (Table 6). Coastwide monthly catch rates in 1988 were highest (352/h) during October (Appendix A, Table 22).

"Non-reef"

Coastwide annual catch rates of Eastern oyster spat decreased from 116/h in 1987 to 48/h in 1988 (Table 7). Catch rates among bay systems ranged from 0/h in upper Laguna Madre in 1986 through 1988 to 403/h in East Matagorda Bay during 1986 (Table 7). Coastwide monthly catch rates in 1988 were highest (263/h) during February (Appendix A, Table 23).

Coastwide annual catch rates of small Eastern oysters decreased from 63/h in 1987 to 60/h in 1988. Catch rates among bay systems ranged from 0/h in upper and lower Laguna Madre in 1986 through 1988 to 454/h in Aransas Bay during 1986 (Table 7). Coastwide monthly catch rates in 1988 were highest (157/h) during March (Appendix A, Table 23).

Coastwide annual catch rates of market Eastern oysters decreased from 30/h in 1987 to 21/h in 1988. Catch rates among bay systems ranged from 0/h in upper and lower Laguna Madre in 1986 through 1987 to 120/h in East Matagorda Bay during 1986 (Table 7). Coastwide monthly catch rates in 1988 were highest (52/h) during February (Appendix A, Table 23).

Beach Seine

Coastwide red drum, black drum and blue crab catch rates were each ≤1/ha in all years (Table 8). Catch rates in all gulf areas were ≤1/ha.

Coastwide spotted seatrout catch rates were ≤1/ha in all years (Table 8). Catch rates among gulf areas ranged from 0/ha in gulf-21 in 1987 to 2/ha in gulf-17 and -18 in 1988.

All other select finfish species coastwide and monthly catch rates and mean lengths varied among species, among gulf areas and among months (Table 8, Appendix A, Table A.24).

Coastwide annual catch rates for "other finfishes" increased from 1/ha in 1987 to 10/ha in 1988 (Table 8). Gulf area catch rates ranged from <1/ha in gulf-21 in 1987 to 19/ha in gulf-19 in 1988.

Highest coastwide annual catch rate (28/ha) for "total finfishes" occurred in 1988 (Table 8). Gulf area catch rates ranged from 6/ha in gulf-19 in 1987 to 34/ha in gulf-17 in 1988.

Coastwide monthly beach seine catch rates during January-December 1988 indicated peaks in abundance for some species (Appendix A, Table A.24). Coastwide spotted seatrout catch rates were highest during May-August. Highest coastwide catch rate for black drum occurred in October. Highest coastwide catch rates of "other finfishes" occurred in June. The coastwide

catch rates for "total finfishes" were highest during June. Blue crab catch rates were highest during May.

Beach Bag Seine

Coastwide annual red drum, spotted seatrout and black drum catch rates were ≤1/ha in all years and areas.

Coastwide and monthly catch rates and mean lengths of individual select finfish species varied among species, among gulf areas and among months (Table 9; Appendix A, Table A.25).

Coastwide annual catch rates for "other finfishes" increased from 461/ha in 1987 to 1,560/ha in 1988 (Table 9). Gulf catch rates ranged from 110/ha in gulf-17 in 1987 to 3,607/ha in gulf-18 in 1988.

Coastwide annual catch rates for "total finfishes" increased from 491/ha in 1987 to 1,776/ha in 1988 (Table 9). Gulf area catch rates ranged from 226/ha in gulf-17 in 1987 to 3,668/ha in 1988.

Coastwide annual blue crab beach bag seine catch rates increased from 1/ha in 1987 to 7/ha in 1988 (Table 9). The highest (26/ha) catch rate occurred in gulf-17 in 1988.

Coastwide monthly beach bag seine catch rates during January-December 1988 indicated peaks in abundance for some species (Appendix A, Table A.25). Highest coastwide catch rate for black drum occurred in September. Highest coastwide catch rates of "other finfishes" and "total finfishes" generally occurred during May through September. Coastwide catch rates for blue crab were highest during April.

Hydrologic Data

Hydrologic data varied among months, among bay systems and among gulf areas (Appendix B, Tables B.1-B.24). Bay salinities were generally higher in upper and lower Laguna Madre than in any other bay. Gulf salinities were generally higher off Port Isabel and Port Aransas. Water temperatures followed seasonal trends.

Seamap

Summer

Catch rates of brown shrimp by depth zone ranged from 309/h in 19-37 m to 3/h in 74-91 m during 1988 (Appendix C, Table C.1). Catch rates in all depth zones during 1988 were less than those recorded during 1982-1986.

White shrimp were caught primarily in waters from 0-18 m deep during all years (Appendix C). Catch rates increased from 15/h in 1982 to 41/h in 1985 then declined to 4/h in 1988.

Pink shrimp were captured in waters from 0-55 m deep (0-195/h) during all years (Appendix C). They were caught predominately in waters 0-37 m deep.

Blue crab were caught primarily in the 0-18 m zone (Appendix C). Catch rates ranged from 0-20/h in all years.

Fall

During fall 1988, brown shrimp were caught in all depth zones, with highest catch rates (48/h) in 19-37 m (Appendix C, Table C.2). White shrimp and pink shrimp were predominately caught in waters 0-37 m deep. No blue crab were caught during fall 1988.

DISCUSSION

The TPWD is mandated by the Texas Legislature and the TPWC to investigate the supply, economic value, environment, breeding habits, sex ratios, effects of fishing, and other factors or conditions causing increases or decreases in the supply of finfishes and shellfishes in Texas waters. Long-term trend data based on independent standardized monitoring programs are necessary to assess changes in relative abundance of these populations. Data in the present report can be used to determine long-term trends in abundance and stability of finfishes and shellfish populations in Texas coastal waters and implement management regulations. McEachron and Green (1986) found differences in coastwide annual catch rates for several species. Abundance information from gill nets was used to justify the prohibition of sale and the imposition of recreational bag and size limits for red drum and spotted seatrout (Texas Parks and Wildlife Department 1983). Declines in relative abundance of red drum and spotted seatrout (Matlock 1982) have stabilized since the imposition of 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 these relationships, it is imperative that the standardized monitoring program used by the TPWD be maintained.

Information from the TPWD standardized monitoring program have documented effects of natural catastrophes on marine populations. Changes in relative abundance for several species was observed following the freeze of 1983-1984 (McEachron et al. 1984) and the red tide of 1986 (Hammerschmidt 1987). To determine effects of natural events in the Texas coastal ecosystem, standardized monitoring programs used by the TPWD should be maintained.

Shrimp data were used to recommend dates for the closure of Texas gulf waters to shrimping (Bryan 1985, 1986, 1988). Oyster data were used to implement oyster season closures in Galveston Bay from 9 December 1986-19 February 1987 and in all other bays (except San Antonio) from 13 January-19 February 1987 (TPWD unpublished data). Oyster data were used to establish the oyster transplant season in Galveston Bay (TPWD unpublished data). All of these data were used to develop management plans for shrimp and oysters as mandated by the Texas Legislature, and will be used for blue crabs and selected finfishes as part of the TPWD's 6-year plan.

Relative abundance of juvenile finfishes and shellfishes are not uniform throughout the year. Periods of high relative abundance in bag seines were subjectively determined for red drum, spotted seatrout, black drum, sheepshead, southern flounder, and Atlantic croaker (McEachron and Green 1986). The 1988 monthly bag seine, trawl, oyster dredge, and beach seine catches in the present report also indicate specific periods of high abundance for these species and for brown shrimp, white shrimp, pink shrimp, blue crab, and Eastern oyster. A more efficient method of estimating abundance from year to year (estimate having the highest precision for effort expended) would be to identify and pool data for months which do not have significantly different catch rates. It is recommended that periods of high abundance in bay and beach bag seines, beach seines, trawls, and oyster dredges be statistically determined for each of the species for the appropriate gear and that these "seasonal" catch rates be considered for presentation in future reports.

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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 1976-1988. Blank indicates no measurement taken; ND = no data.

		Bay system																			
		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Species	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	1976	ND		<.1	310	ND		1.0	429	1.0	410	1.0	451	0.6	412	0.1	509	1.2	458	0.7	435
	1977	ND		0.3	450	0.2	418	0.1	467	0.3	380	0.4	409	0.4	401	0.1	438	0.5	442	0.3	426
	1978	ND		0.1	394	0.4	429	0.5	485	0.2	400	0.2	444	0.3	461	0.2	495	0.5	462	0.3	460
	1979	ND		0.2	480	0.1	466	0.2	414	0.2	421	0.4	423	0.3	479	0.2	477	0.3	452	0.3	448
	1980	ND		0.9	449	0.4	451	1.1	387	0.7	400	0.4	373	1.0	430	0.8	415	0.6	438	0.8	418
	1981	ND		0.3	431	0.2	465	0.2	408	0.6	396	0.4	399	0.3	424	0.3	412	1.0	438	0.4	420
	1982	ND		0.9	474	0.4	436	0.5	425	0.4	408	0.4	430	0.5	469	0.3	496	1.0	497	0.6	464
	1983	ND		0.9	474	1.0	475	0.6	411	0.7	402	0.5	385	0.4	427	0.2	479	0.8	479	0.6	444
	1984	ND		0.9	482	0.7	446	0.1	430	0.2	513	0.3	419	0.8	457	0.3	436	0.7	514	0.5	473
	1985	ND		0.6	538	0.5	514	0.2	457	0.2	465	0.4	463	0.6	457	0.3	505	0.6	508	0.4	500
	1986	0.4	520	1.4	497	0.8	456	0.8	463	0.6	454	0.5	395	0.7	463	0.3	474	1.0	493	0.8	474
	1987	0.2	516	0.6	497	0.6	501	0.9	465	0.7	451	0.6	493	0.6	463	0.4	519	1.1	508	0.7	483
	1988	0.3	498	0.7	492	0.9	473	0.7	434	1.1	470	0.5	436	0.6	495	0.6	550	1.2	499	0.8	481
Spotted seatrout	1976	ND		<.1	530	ND		0.3	422	0.5	382	3.3	465	0.4	365	<.1	405	3.4	457	1.1	453
	1977	ND		0.2	516	2.0	434	0.2	381	0.9	392	1.0	422	0.4	372	1.2	442	1.5	422	0.8	422
	1978	ND		0.2	523	0.4	441	0.6	409	1.4	408	0.1	435	0.5	437	0.9	474	1.4	503	0.7	456
	1979	ND		0.2	515	0.4	426	0.3	490	0.1	436	0.4	507	0.3	524	0.4	442	0.6	525	0.3	495
	1980	ND		0.1	419	0.8	402	0.6	426	0.9	402	0.2	465	0.3	506	0.5	473	0.9	497	0.5	449
	1981	ND		0.4	483	1.8	416	0.4	406	0.7	453	0.8	468	0.5	445	0.4	423	2.2	471	0.8	456
	1982	ND		0.4	491	0.9	454	0.5	456	0.8	440	0.7	435	0.8	489	0.8	481	2.5	485	0.9	472
	1983	ND		0.4	510	1.7	441	0.7	452	0.8	444	0.6	447	0.7	478	0.7	509	1.3	500	0.7	476
	1984	ND		0.3	498	0.7	468	0.3	439	0.3	483	0.2	435	0.2	473	<.1	483	0.7	475	0.3	472
	1985	ND		0.5	506	0.6	467	0.3	424	0.3	457	0.4	430	0.4	471	0.1	427	1.4	485	0.5	473
	1986	0.3	460	0.5	449	1.0	432	0.5	441	0.4	426	0.4	430	1.0	447	0.4	449	1.5	488	0.7	456
	1987	0.2	339	0.6	449	0.7	436	0.4	434	0.4	447	0.5	456	0.9	478	0.4	490	1.9	508	0.7	474
	1988	0.2	386	0.7	459	0.8	456	0.5	430	0.5	435	0.5	458	0.8	478	0.4	507	1.6	498	0.7	470
Black drum	1976	ND		0.2	290	ND		0.8	418	1.0	306	0.9	389	0.6	360	0.5	352	0.9	387	0.7	366
	1977	ND		0.4	388	0.3	262	0.5	518	1.0	314	1.2	316	0.5	347	0.4	376	0.9	428	0.7	374
	1978	ND		0.2	439	0.4	344	0.2	300	0.1	306	0.4	358	0.4	325	0.1	398	0.8	395	0.3	373
	1979	ND		0.3	292	0.7	328	0.5	415	<.1	370	0.3	323	0.1	374	0.3	371	0.9	413	0.4	371
	1980	ND		0.4	314	1.0	272	0.9	355	0.4	263	1.0	320	0.3	352	0.7	384	0.4	452	0.6	341
	1981	ND		0.8	418	0.8	312	0.3	301	0.4	352	0.8	362	0.1	379	1.1	390	0.9	391	0.7	381
	1982	ND		0.6	343	0.8	294	0.5	363	0.7	317	1.1	300	0.4	339	0.7	374	1.2	400	0.8	347
	1983	ND		0.9	337	2.7	364	0.6	355	0.6	323	1.2	340	0.9	370	1.0	400	1.6	441	1.0	372
	1984	ND		0.6	373	1.0	391	0.2	368	0.2	460	0.1	559	0.5	414	0.6	442	0.6	459	0.4	417
	1985	ND		0.5	346	0.4	313	0.3	478	0.1	426	0.2	396	0.2	342	0.8	361	0.4	372	0.4	374
	1986	0.2	374	0.5	383	0.6	345	0.3	402	0.1	313	0.4	316	0.6	369	0.7	418	0.4	464	0.4	387
	1987	0.2	399	0.6	449	0.7	436	0.4	434	0.4	447	0.5	456	0.9	478	0.4	490	1.9	508	0.7	474
	1988	0.1	410	0.4	380	0.7	375	0.4	390	0.4	339	0.4	375	0.8	444	0.6	397	0.3	451	0.5	396

Table 1. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Sheeps-	1976	ND		0.0		ND		0.1	420	0.3	341	0.6	342	0.0		0.3	367	0.3	318	0.2	345
head	1977	ND		<.1	338	<.1	234	0.1	280	0.2	308	<.1	232	0.1	294	0.1	380	0.1	336	0.1	311
	1978	ND		0.0		0.4	296	<.1	278	0.1	313	0.2	354	0.2	356	0.2	394	0.2	358	0.1	350
	1979	ND		<.1	305	0.1	297	<.1	391	<.1	402	0.1	320	0.5	362	0.1	370	0.2	340	0.1	350
	1980	ND		<.1	353	0.3	347	0.1	334	0.1	320	0.2	352	0.2	322	0.2	369	0.3	343	0.2	345
	1981	ND		<.1	393	0.2	326	<.1	453	0.6	335	0.3	349	0.1	319	0.2	390	0.6	325	0.2	342
	1982	ND		0.1	332	0.0		0.1	330	0.2	354	<.1	326	0.2	343	0.2	361	0.6	326	0.2	336
	1983	ND		0.1	313	0.4	311	0.1	373	0.2	372	0.1	349	0.3	370	0.2	392	0.4	342	0.2	354
	1984	ND		0.1	351	0.3	354	<.1	387	0.2	398	<.1	401	0.2	379	0.1	385	0.2	348	0.1	370
	1985	ND		<.1	352	0.2	372	<.1	337	<.1	409	<.1	382	0.1	424	<.1	427	0.1	353	0.1	382
	1986	<.1	372	<.1	372	0.2	356	<.1	369	0.1	417	<.1	305	0.1	388	<.1	427	0.1	370	<.1	382
	1987	<.1	364	<.1	361	0.2	314	<.1	340	<.1	447	<.1	342	<.1	350	<.1	403	0.2	313	0.1	366
	1988	0.0		<.1	405	0.1	350	<.1	357	<.1	342	0.1	348	0.1	371	<.1	407	0.1	369	<.1	366
Southern	1976	ND		0.0		ND		0.0		0.1	335	0.0		0.0		0.0		0.2	350	<.1	345
flounder	1977	ND		<.1	351	0.1	358	<.1	328	<.1	208	0.1	358	<.1	430	0.0		<.1	345	<.1	347
	1978	ND		<.1	249	0.1	352	<.1	330	0.1	279	<.1	338	0.1	338	<.1	345	0.1	344	<.1	323
	1979	ND		<.1	451	0.1	348	<.1	290	0.1	388	<.1	291	0.1	373	<.1	320	0.2	366	0.1	354
	1980	ND		0.1	344	0.1	325	0.1	307	<.1	292	0.1	292	0.1	316	<.1	364	0.1	364	0.1	330
	1981	ND		<.1	244	<.1	340	<.1	270	<.1	291	<.1	368	0.1	332	0.1	348	0.1	338	<.1	322
	1982	ND		0.1	343	<.1	319	<.1	307	<.1	305	0.1	299	0.1	361	0.1	337	0.1	350	0.1	332
	1983	ND		0.1	366	0.1	318	0.1	327	<.1	333	<.1	329	0.1	385	0.1	359	0.1	371	0.1	357
	1984	ND		0.1	338	0.1	388	<.1	317	<.1	321	<.1	310	0.1	377	<.1	344	<.1	355	<.1	342
	1985	ND		0.1	349	0.1	348	<.1	346	0.1	329	<.1	347	0.1	353	0.1	346	0.1	336	0.1	344
	1986	<.1	294	<.1	345	0.2	329	<.1	358	<.1	316	<.1	357	<.1	395	0.1	354	0.1	370	0.1	354
	1987	<.1	364	<.1	338	0.1	330	<.1	304	0.1	345	<.1	336	<.1	333	0.1	407	<.1	401	<.1	353
	1988	<.1	292	0.1	367	0.1	349	<.1	354	<.1	350	<.1	334	<.1	353	<.1	400	<.1	360	<.1	359
Atlantic	1976	ND		0.2	298	ND		0.1		0.2	332	0.0		1.0	277	0.0		0.8	333	0.3	306
croaker	1977	ND		0.3	268	0.1	255	0.0		<.1	227	<.1	285	1.0	264	0.4	297	0.2	269	0.2	271
	1978	ND		0.1	247	<.1	270	<.1	293	<.1	250	<.1	248	0.1	281	0.2	281	0.1	276	0.1	268
	1979	ND		0.2	260	<.1	257	<.1	263	0.0		0.0		0.1	265	0.1	298	0.2	308	0.1	279
	1980	ND		0.1	268	0.1	250	0.0		<.1	254	<.1	240	0.1	272	0.2	312	0.1	286	0.1	286
	1981	ND		0.1	264	0.1	250	<.1	276	0.0		0.1	289	0.1	266	0.3	302	0.1	277	0.1	282
	1982	ND		0.2	268	0.1	258	<.1	270	<.1	265	<.1	261	0.1	285	0.2	313	0.4	347	0.1	308
	1983	ND		0.3	268	0.1	278	<.1	273	<.1	277	<.1	286	0.2	265	0.2	289	0.4	314	0.1	286
	1984	ND		0.1	265	<.1	322	<.1	225	<.1	298	<.1	260	<.1	262	<.1	304	<.1	285	<.1	266
	1985	ND		0.2	273	<.1	318	<.1	260	<.1	184	<.1	115	0.1	265	0.2	267	0.1	261	0.1	266
	1986	0.1	259	0.4	271	0.1	250	<.1	245	<.1	250	<.1	292	0.3	255	0.2	297	0.1	288	0.1	272
	1987	<.1	263	0.2	260	<.1	242	<.1	236	<.1	268	<.1	246	<.1	282	<.1	3.9	<.1	251	0.1	263
	1988	0.1	259	0.1	265	<.1	226	<.1	278	0.0		<.1	260	0.1	261	0.1	337	<.1	296	<.1	276

Table 1. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Sand seatrout	1976	ND		<.1	195	ND		0.0		0.0		0.0		0.3	266	0.0		0.0		<.1	244
	1977	ND		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1978	ND		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1979	ND		<.1	217	0.0		0.0		<.1	209	0.0		<.1	284	<.1	333	<.1	245	<.1	231
	1980	ND		0.0		0.0		0.0		0.0		0.0		<.1	312	0.0		0.0		<.1	312
	1981	ND		0.0		0.0		<.1	270	<.1	378	0.0		0.0		0.0		0.0		<.1	318
	1982	ND		0.0		0.0		<.1	171	0.0		<.1	230	<.1	286	<.1	390	<.1	295	<.1	274
	1983	ND		<.1	302	0.0		<.1	227	0.0		0.0		<.1	337	0.0		0.0		<.1	291
	1984	ND		<.1	200	0.0		<.1	180	<.1	236	0.0		<.1	247	0.0		0.0		<.1	210
	1985	ND		<.1	356	0.0		<.1	172	0.0		0.0		0.0		<.1	296	<.1	269	<.1	259
	1986	<.1	277	<.1	209	0.0		0.0		0.0		0.0		<.1	232	0.0		0.0		<.1	215
	1987	0.0		<.1	536	0.0		0.0		0.0		0.0		<.1	261	0.0		0.0		<.1	478
	1988	0.0		<.1	218	0.0		<.1	279	0.0		0.0		<.1	232	0.0		<.1	238	<.1	234
Gafftop-sail catfish	1976	ND		6.4	504	ND		0.5	494	2.3	456	0.0		0.0		0.0		0.0		1.8	496
	1977	ND		0.2	480	0.4	506	0.9	556	3.3	538	3.1	506	0.0		0.0		0.0		1.0	524
	1978	ND		0.3	539	0.1	546	1.1	546	1.8	496	0.1	545	<.1	436	0.0		0.0		0.5	521
	1979	ND		0.3	520	0.5	534	0.4	553	0.4	534	0.5	544	0.2	551	0.0		0.0		0.3	539
	1980	ND		0.2	511	0.2	566	0.5	554	1.2	547	0.4	552	0.1	598	0.0		0.0		0.3	546
	1981	ND		0.2	514	0.3	480	0.8	541	0.5	537	1.4	541	0.1	521	<.1	577	0.0		0.4	536
	1982	ND		0.4	513	0.2	496	0.4	544	1.4	540	0.9	542	0.3	530	<.1	534	<.1	372	0.5	535
	1983	ND		0.2	544	<.1	475	0.3	537	2.0	530	0.9	537	0.1	536	<.1	575	0.0		0.5	534
	1984	ND		0.2	527	<.1	580	1.0	529	1.1	530	0.6	550	0.2	532	<.1	472	<.1	211	0.4	533
	1985	ND		0.3	532	<.1	467	0.4	517	0.8	537	0.1	557	0.1	507	<.1	413	<.1	388	0.2	530
	1986	0.2	490	0.4	515	0.3	468	0.3	533	0.5	554	0.4	529	0.4	534	<.1	374	0.0		0.3	528
	1987	<.1	509	0.4	552	0.1	507	0.2	539	0.1	565	0.2	567	0.2	550	<.1	532	<.1	518	0.2	551
	1988	0.1	538	0.2	511	0.1	530	0.5	531	0.3	563	0.2	562	0.2	550	0.0		<.1	428	0.2	537
Gulf menhaden	1976	ND		0.2	261	ND		0.1	250	0.1	275	0.0		0.0		0.0		0.0		0.1	261
	1977	ND		2.5	251	0.6	299	0.1	245	0.1	233	0.3	247	2.6	255	<.1	282	<.1	229	0.9	253
	1978	ND		0.3	242	<.1	194	0.2	245	1.2	258	0.0		0.2	263	1.2	264	<.1	246	0.4	256
	1979	ND		1.2	251	0.0		0.1	251	<.1	132	<.1	241	0.1	255	0.2	260	0.0		0.3	251
	1980	ND		<.1	193	0.0		<.1	252	0.1	287	<.1	271	<.1	257	0.6	269	<.1	253	0.1	265
	1981	ND		0.4	260	0.0		0.2	254	0.1	252	0.2	254	0.1	243	0.1	246	0.1	244	0.2	255
	1982	ND		0.4	254	0.0		<.1	248	0.3	252	0.1	249	<.1	250	0.4	268	<.1	303	0.2	257
	1983	ND		0.8	252	0.0		0.2	251	0.2	243	0.1	244	0.1	248	0.1	304	0.1	252	0.3	252
	1984	ND		0.5	254	0.0		0.1	251	0.2	279	0.2	246	0.1	257	<.1	284	<.1	265	0.2	256
	1985	ND		0.8	253	<.1	281	0.5	242	0.3	243	0.4	250	0.6	250	<.1	244	0.8	260	0.5	252
	1986	0.1	279	1.3	251	<.1	226	0.1	242	0.1	244	0.2	245	0.4	258	<.1	252	<.1	253	0.4	251
	1987	<.1	348	1.2	245	<.1	227	<.1	241	<.1	226	<.1	226	0.2	242	<.1	240	0.1	253	0.3	245
	1988	<.1	278	0.1	244	0.0		0.2	244	<.1	278	<.1	236	0.1	253	<.1	257	<.1	290	0.1	249

Table 1. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Hardhead catfish	1976	ND		3.1	318	ND		0.4	296	1.5	315	2.3	336	0.7	291	0.0		0.2	333	1.4	320
	1977	ND		2.2	332	0.3	309	1.8	316	0.8	322	0.4	305	1.2	323	0.8	295	0.4	321	1.2	321
	1978	ND		2.1	338	0.3	318	0.2	295	1.0	317	0.3	346	0.6	317	1.0	283	0.7	306	0.9	322
	1979	ND		3.2	335	0.3	330	0.6	315	0.5	333	0.5	325	0.4	327	0.5	298	0.4	295	1.0	328
	1980	ND		2.7	331	1.0	319	0.2	316	0.8	328	0.3	342	0.4	326	0.3	291	0.6	332	0.9	329
	1981	ND		1.6	335	1.1	341	1.6	328	1.1	327	0.9	346	0.7	346	0.9	295	0.7	315	1.1	329
	1982	ND		3.6	334	1.4	339	0.9	329	2.0	333	1.0	337	1.0	347	0.9	318	1.8	337	1.8	334
	1983	ND		4.0	333	0.9	338	0.5	319	1.5	341	0.8	346	1.4	338	1.8	311	1.9	338	1.8	333
	1984	ND		2.3	343	0.5	336	1.0	326	2.0	334	1.2	346	1.4	340	1.4	318	1.5	334	1.6	336
	1985	ND		3.4	337	1.2	340	1.2	332	1.6	344	0.9	345	2.2	342	1.4	307	1.0	337	1.8	336
	1986	0.8	320	3.3	334	1.8	345	1.4	326	1.3	343	0.6	351	1.4	333	0.7	319	1.4	364	1.6	338
	1987	0.1	333	4.2	334	1.6	332	1.0	349	0.8	358	0.6	360	0.9	355	0.6	318	1.6	375	1.6	344
	1988	0.3	323	3.6	341	1.2	328	0.9	339	1.4	352	0.6	358	2.6	354	1.0	325	1.5	367	1.7	346
Pinfish	1976	ND		0.0		ND		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1977	ND		0.0		0.0		0.0		<.1	222	0.0		0.0		0.0		0.0		<.1	222
	1978	ND		0.0		0.0		0.0		<.1	196	0.0		0.0		<.1	204	<.1	165	<.1	187
	1979	ND		0.0		0.0		0.0		<.1		<.1	226	<.1	305	0.0		0.0		<.1	256
	1980	ND		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1981	ND		0.0		<.1	230	0.0		<.1	246	0.0		0.0		<.1	190	<.1	200	<.1	214
	1982	ND		0.0		<.1	205	<.1	217	<.1	216	<.1	230	0.1	233	0.1	208	<.1	220	<.1	219
	1983	ND		<.1	210	0.0		0.0		0.0		<.1	160	<.1	248	<.1	209	<.1	199	<.1	217
	1984	ND		0.0		0.0		0.0		0.0		<.1	125	<.1	162	<.1	310	0.0		<.1	255
	1985	ND		0.0		0.0		0.0		0.0		<.1	237	<.1	178	<.1	178	<.1	165	<.1	179
	1986	0.0		0.0		0.0		<.1	150	0.0		<.1	174	<.1	168	<.1	252	0.0		<.1	196
	1987	0.0		0.0		0.0		0.0		0.0		<.1	160	<.1	234	<.1	164	<.1	184	<.1	186
	1988	0.0		0.0		0.0		0.0		0.0		<.1	244	<.1	302	<.1	162	0.0		<.1	241
Spot	1976	ND		0.4	218	ND		0.0		0.0		0.0		0.3	233	0.0		0.1	230	0.1	222
	1977	ND		0.1	227	<.1	233	0.0		0.1	230	0.1	226	0.6	219	0.2	228	0.1	215	0.1	223
	1978	ND		<.1	225	<.1	256	<.1	232	0.1	242	<.1	259	0.2	214	0.1	227	0.1	234	0.1	228
	1979	ND		0.0		<.1	259	<.1	250	0.0		<.1	245	<.1	233	0.1	238	0.1	252	<.1	246
	1980	ND		0.0		<.1	233	0.0		<.1	239	0.0		0.1	247	0.1	234	<.1	234	<.1	239
	1981	ND		<.1	250	<.1	230	<.1	240	0.0		<.1	268	<.1	222	0.1	223	<.1	241	<.1	235
	1982	ND		<.1	244	0.0		<.1	260	<.1	244	<.1	249	0.1	234	0.5	231	0.1	237	0.1	234
	1983	ND		0.1	240	<.1	234	0.1	238	0.1	248	<.1	235	0.1	235	0.2	232	0.1	239	0.1	238
	1984	ND		<.1	247	<.1	288	<.1	291	<.1	255	<.1	253	0.1	248	0.1	234	<.1	238	<.1	253
	1985	ND		<.1	234	0.0		<.1	235	<.1	238	<.1	240	<.1	220	0.1	220	<.1	240	<.1	228
	1986	<.1	250	<.1	233	<.1	249	<.1	240	<.1	232	<.1	224	0.1	216	0.1	238	<.1	230	<.1	232
	1987	<.1	233	<.1	238	0.0		<.1	241	<.1	230	<.1	245	<.1	233	<.1	224	<.1	236	<.1	233
	1988	<.1	232	<.1	228	<.1	252	<.1	241	<.1	233	<.1	272	<.1	234	0.1	226	<.1	232	<.1	232

Table 1. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Striped mullet	1976	ND		0.1	385	ND		0.2	322	0.2	338	0.6	366	0.0		<.1	375	0.0		0.2	358
	1977	ND		0.2	322	0.0		0.2	314	0.9	317	0.8	319	0.1	340	0.2	368	0.2	345	0.3	323
	1978	ND		0.0		0.1	327	0.4	336	0.2	334	0.2	327	0.2	366	<.1	327	0.1	354	0.2	338
	1979	ND		0.2	320	0.1	336	0.1	341	0.7	343	0.2	339	0.1	333	0.1	404	0.1	354	0.2	341
	1980	ND		0.1	343	<.1	338	0.4	335	0.2	328	0.1	337	0.1	320	0.2	379	0.2	356	0.2	343
	1981	ND		<.1	318	0.1	345	<.1	336	<.1	341	0.1	336	0.1	321	0.2	353	0.2	353	0.1	344
	1982	ND		0.2	344	0.2	295	0.2	326	0.2	330	0.2	333	0.2	344	0.2	359	0.3	361	0.2	341
	1983	ND		0.2	350	0.1	346	0.1	346	0.2	341	0.2	341	0.1	351	0.2	367	0.2	368	0.2	352
	1984	ND		0.2	344	0.2	340	0.3	328	0.2	337	0.4	337	0.1	336	0.6	352	0.5	347	0.3	342
	1985	ND		0.2	340	0.2	339	0.3	332	0.1	328	0.3	340	0.1	338	0.2	380	0.1	339	0.2	342
	1986	<.1	326	0.2	350	0.2	321	0.2	330	0.1	328	0.2	336	0.1	340	0.1	368	0.1	341	0.1	340
	1987	<.1	312	0.2	366	0.1	319	0.2	343	0.2	348	0.2	354	0.1	336	0.1	402	0.2	359	0.2	357
	1988	<.1	327	0.1	344	0.2	333	0.1	323	0.2	348	0.1	343	0.1	350	0.1	371	0.1	364	0.1	348
Other finfishes	1976	ND		0.3	619	ND		1.6	360	0.4	619	0.9	486	2.4	351	0.1	356	0.0		0.7	423
	1977	ND		2.5	320	0.2	479	1.9	524	0.7	504	0.5	712	0.8	363	0.4	363	0.4	388	1.2	416
	1978	ND		1.6	345	0.2	283	1.5	456	1.7	505	0.4	535	0.7	308	0.5	400	0.9	407	1.1	414
	1979	ND		1.0	403	0.2	402	1.2	419	1.1	520	0.6	510	0.4	341	0.2	342	0.3	445	0.7	439
	1980	ND		0.4	520	0.2	309	1.5	521	0.7	537	0.5	515	0.3	337	0.2	364	0.2	530	0.6	506
	1981	ND		0.8	351	0.9	277	1.6	459	2.1	483	0.9	475	0.5	323	0.5	329	0.6	416	1.0	425
	1982	ND		1.2	414	0.7	348	2.1	516	0.8	557	1.1	494	0.6	436	0.3	384	0.8	407	1.0	467
	1983	ND		1.0	419	0.5	312	1.2	525	0.9	529	0.9	510	1.1	445	0.2	375	0.6	406	0.9	467
	1984	ND		0.7	424	0.3	328	1.2	600	1.1	587	0.8	531	1.2	403	0.2	392	0.4	467	0.8	505
	1985	ND		0.9	434	0.4	556	1.7	577	0.6	813	0.8	658	0.5	410	0.4	373	0.4	440	0.8	547
	1986	2.7	514	1.2	381	0.4	294	1.3	579	0.2	661	0.5	580	0.7	350	0.2	482	0.4	440	0.8	475
	1987	1.2	607	0.7	389	0.3	458	0.8	547	0.3	521	0.6	539	0.2	443	0.1	480	0.3	394	0.5	484
	1988	1.3	548	0.7	426	0.5	512	1.0	406	0.8	613	0.5	568	1.0	347	0.2	423	0.4	465	0.7	466
Total finfishes	1976	ND		11.1	429	ND		5.2	394	7.6	391	9.5	415	6.2	332	1.1	378	7.1	419	7.3	408
	1977	ND		8.8	316	4.3	395	5.9	442	8.2	428	8.1	428	7.6	297	3.8	366	4.3	395	6.7	377
	1978	ND		5.0	357	2.4	359	4.8	437	7.7	409	2.0	406	3.4	343	4.6	365	5.0	406	4.6	390
	1979	ND		6.8	345	2.5	396	3.4	409	3.2	453	3.2	433	2.7	393	2.2	360	3.2	411	3.8	387
	1980	ND		5.0	380	4.2	347	5.4	428	5.2	422	3.1	405	2.8	387	3.9	368	3.5	419	4.3	400
	1981	ND		4.6	369	5.5	363	5.3	408	6.1	417	6.0	432	2.8	364	4.2	353	6.5	406	5.2	396
	1982	ND		8.1	378	4.7	368	5.3	435	6.8	411	5.8	417	4.6	400	4.5	367	8.8	394	6.4	397
	1983	ND		9.0	369	7.6	384	4.5	417	7.2	422	5.5	404	5.5	397	5.0	373	7.5	409	6.6	394
	1984	ND		6.2	389	3.7	397	4.3	449	5.6	431	3.9	432	4.8	397	3.2	369	4.6	412	4.7	410
	1985	ND		7.6	381	3.9	408	5.2	446	4.1	479	3.6	452	5.0	368	3.6	350	5.2	384	5.1	404
	1986	4.9	432	9.3	377	5.4	381	5.0	425	3.5	422	3.2	418	5.7	371	2.9	387	5.2	425	5.3	398
	1987	2.0	517	8.7	373	4.3	384	4.0	430	2.9	420	3.4	431	3.9	420	3.0	432	5.9	434	4.8	408
	1988	2.5	472	6.7	385	4.6	401	4.5	411	4.7	444	3.0	436	6.4	390	3.2	407	5.4	436	4.8	411

Table 1. (Cont'd.)

		Bay system																	
		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Species	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	1983	ND		0.2	151	0.3	154	0.1	151	0.2	142	0.3	142	0.2	151	0.1	156	0.2	145	0.2	147
	1984	ND		0.2	150	0.4	135	0.1	143	0.2	137	0.2	142	0.3	147	0.3	145	0.2	142	0.2	144
	1985	ND		0.3	149	0.5	151	0.2	144	0.3	136	0.2	141	0.2	149	0.3	141	0.2	158	0.2	147
	1986	0.2	146	0.3	151	0.6	133	0.2	140	0.1	135	0.1	144	0.1	154	<.1	147	0.1	148	0.2	145
	1987	0.3	152	0.3	139	0.3	138	0.1	138	0.2	140	0.1	155	0.1	151	<.1	137	0.1	142	0.1	141
	1988	0.3	154	0.1	148	0.1	159	<.1	135	<.1	141	<.1	150	0.1	145	<.1	115	0.1	152	0.1	147

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 1975-1988. Blank indicates no measurement taken; ND = no data.

		Bay system																			
		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Species	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	1975	ND		1.2	403	ND		1.2	337	1.0	326	0.8	339	0.4	330	0.3	424	0.7	474	0.9	372
	1976	ND		1.0	509	0.3	487	0.5	415	1.6	406	0.4	395	0.5	460	0.4	442	1.3	465	0.9	452
	1977	ND		0.6	445	0.9	390	0.8	435	1.0	386	0.6	392	0.5	427	0.2	364	0.4	448	0.6	416
	1978	ND		0.3	429	0.7	376	1.0	395	0.6	384	1.0	401	0.4	429	0.3	455	0.4	493	0.6	412
	1979	ND		0.8	386	0.7	403	1.4	353	1.9	376	0.9	378	0.8	352	0.5	387	0.5	449	1.0	378
	1980	ND		0.5	436	0.8	473	0.6	434	0.9	411	1.1	386	0.7	370	0.5	454	0.6	449	0.7	419
	1981	ND		0.5	429	0.6	405	0.6	390	0.7	373	0.8	403	0.6	396	0.3	515	0.8	488	0.6	422
	1982	ND		0.6	440	0.9	401	0.6	390	0.5	360	0.4	386	0.2	417	0.2	456	0.5	440	0.5	413
	1983	ND		0.6	436	0.8	394	0.5	418	0.6	407	0.4	410	0.3	448	0.2	486	0.7	509	0.5	440
	1984	ND		0.9	451	1.1	551	0.2	382	0.6	383	0.5	377	0.8	400	0.7	457	0.7	472	0.6	436
	1985	ND		0.9	421	1.2	420	0.8	394	1.3	385	0.8	427	0.7	436	0.3	460	0.9	478	0.8	423
	1986	0.4	481	0.7	468	0.8	453	0.8	403	1.2	441	0.9	454	0.5	450	0.4	486	0.9	495	0.8	456
	1987	0.4	449	0.5	459	0.9	446	0.8	372	1.2	473	0.6	459	0.4	424	0.3	527	1.5	532	0.7	467
	1988	0.4	399	0.8	437	1.5	485	0.8	418	1.1	457	0.8	454	0.5	458	0.3	520	1.3	522	0.8	463
Spotted seatrout	1975	ND		0.2	447	ND		0.6	419	1.1	389	0.7	474	0.4	479	0.2	455	0.8	413	0.6	427
	1976	ND		0.4	463	1.0	451	0.4	437	0.7	427	0.2	448	0.6	387	0.2	455	2.4	431	0.7	433
	1977	ND		0.2	501	0.3	461	0.4	455	0.5	387	0.1	485	0.2	483	0.6	412	0.8	464	0.4	449
	1978	ND		0.3	544	0.3	400	0.8	406	0.5	387	0.1	383	0.2	417	0.4	431	0.5	437	0.4	432
	1979	ND		0.2	449	0.1	385	0.6	418	0.2	439	0.1	476	0.2	413	0.1	434	0.4	472	0.2	438
	1980	ND		0.4	476	0.2	418	0.3	406	0.2	435	0.2	446	0.3	465	0.2	434	0.5	490	0.3	457
	1981	ND		0.2	483	0.8	419	0.4	437	0.3	428	0.2	442	0.4	437	0.2	469	0.7	486	0.4	457
	1982	ND		0.3	456	0.4	468	0.3	430	0.4	428	0.2	458	0.2	458	0.4	435	0.5	453	0.3	445
	1983	ND		0.3	464	0.5	420	0.3	438	0.5	425	0.2	459	0.3	435	0.3	459	0.6	476	0.4	452
	1984	ND		0.4	465	0.3	459	0.2	430	0.2	420	0.1	453	0.2	467	0.1	400	0.4	458	0.2	453
	1985	ND		0.3	470	0.3	418	0.4	439	0.2	430	0.2	438	0.4	432	0.2	443	0.6	475	0.3	453
	1986	0.2	395	0.4	438	0.4	444	1.3	431	0.4	432	0.3	442	0.4	464	0.3	437	1.0	472	0.4	444
	1987	0.1	410	0.2	459	0.5	425	0.6	425	0.3	422	0.3	452	0.5	461	0.2	456	0.7	461	0.4	445
	1988	0.1	420	0.5	444	0.6	432	0.3	439	0.4	438	0.3	430	0.4	442	0.2	428	0.8	479	0.4	449
Black drum	1975	ND		0.4	366	ND		0.9	326	0.5	315	0.8	290	0.4	358	1.2	422	1.0	454	0.7	367
	1976	ND		0.3	337	0.6	305	0.9	344	1.2	325	0.6	376	0.3	366	1.0	503	2.4	419	0.9	388
	1977	ND		0.4	384	0.5	371	0.5	338	0.7	336	0.4	341	0.3	365	0.8	406	2.2	410	0.7	383
	1978	ND		0.4	383	1.0	346	0.5	383	0.3	306	0.5	311	0.1	383	0.8	425	0.4	377	0.4	372
	1979	ND		0.2	398	0.1	410	0.2	404	0.4	361	0.3	380	0.4	308	0.4	391	0.5	423	0.3	387
	1980	ND		0.8	391	0.9	341	0.7	306	1.2	298	0.9	340	0.5	370	0.6	365	1.0	400	0.8	353
	1981	ND		0.3	408	0.4	343	0.4	383	0.5	315	0.5	341	0.4	357	0.5	390	0.8	384	0.5	369
	1982	ND		0.6	355	2.4	346	0.6	352	1.0	296	1.1	337	0.6	369	0.9	388	1.9	387	1.0	356
	1983	ND		0.2	381	1.0	361	0.6	375	0.6	328	0.6	345	0.7	406	0.5	422	0.9	418	0.6	381
	1984	ND		0.4	405	0.7	348	0.2	386	0.3	269	0.2	329	0.2	376	0.4	438	0.4	442	0.3	389
	1985	ND		0.8	379	0.6	363	0.4	357	0.3	295	0.4	325	0.2	363	0.9	389	0.5	435	0.5	372
	1986	0.4	360	0.7	380	0.6	303	0.6	351	0.4	342	0.5	357	0.3	388	0.5	317	0.5	441	0.5	379
	1987	0.3	378	0.4	376	1.5	376	0.4	383	0.3	364	0.5	370	0.2	384	0.4	403	0.6	465	0.4	393
	1988	0.2	355	0.5	387	1.2	339	0.7	346	1.0	334	0.7	330	0.7	337	1.5	405	0.6	422	0.8	368

Table 2. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Sheeps-head	1975	ND		<.1	362	ND		0.1	316	0.2	291	1.1	296	0.2	376	0.3	409	0.1	352	0.3	323
	1976	ND		<.1	331	0.2	308	0.2	273	0.4	329	1.0	255	0.1	328	0.2	360	0.4	341	0.3	297
	1977	ND		<.1	342	0.3	316	0.1	314	0.2	321	0.5	267	0.2	335	0.2	406	0.3	356	0.2	323
	1978	ND		0.1	308	0.2	307	0.1	342	0.5	371	0.6	306	0.2	361	0.2	376	0.1	300	0.2	337
	1979	ND		<.1	335	0.2	352	0.1	312	0.4	362	0.8	318	0.2	339	0.1	395	0.2	349	0.2	338
	1980	ND		0.1	283	0.1	309	<.1	353	0.7	296	0.6	307	0.2	361	0.2	382	0.4	330	0.3	316
	1981	ND		<.1	321	0.1	277	0.2	292	0.3	335	0.2	322	0.1	343	0.1	382	0.3	332	0.2	327
	1982	ND		0.1	330	0.3	332	0.1	313	0.1	296	0.2	350	0.1	365	0.2	383	0.3	330	0.1	339
	1983	ND		<.1	342	0.5	345	0.1	338	0.2	302	0.1	355	0.1	361	0.2	395	0.3	340	0.2	346
	1984	ND		<.1	369	0.3	383	<.1	369	<.1	427	<.1	436	<.1	383	0.1	417	0.1	333	0.1	379
	1985	ND		<.1	380	0.2	379	<.1	374	<.1	362	<.1	326	<.1	352	<.1	435	0.1	369	<.1	369
	1986	<.1	340	<.1	359	0.1	297	0.1	336	0.1	329	0.1	304	0.1	359	<.1	407	0.1	351	0.1	336
	1987	<.1	402	0.1	387	0.1	366	0.1	352	0.1	371	0.2	360	0.1	340	<.1	386	0.2	342	0.1	355
	1988	0.0		<.1	368	0.1	340	0.1	358	0.1	346	0.1	304	<.1	354	<.1	398	0.2	382	0.1	359
Southern flounder	1975	ND		<.1	317	ND		0.1	323	0.1	250	0.1	309	0.2	380	0.1	448	0.1	338	0.1	342
	1976	ND		<.1	365	0.5	321	<.1	296	0.2	363	0.1	304	0.2	351	0.1	347	0.1	389	0.1	348
	1977	ND		0.2	331	0.2	342	<.1	322	0.2	312	0.2	368	0.1	383	<.1	491	<.1	353	0.1	342
	1978	ND		0.1	359	0.1	354	<.1	310	0.1	310	0.1	377	0.2	372	<.1	354	<.1	335	0.1	352
	1979	ND		<.1	348	0.1	331	0.1	338	0.2	388	0.1	336	0.1	347	0.1	396	0.2	366	0.2	363
	1980	ND		0.2	345	0.3	369	0.2	330	0.1	325	0.1	359	0.2	367	<.1	363	0.2	400	0.1	354
	1981	ND		0.1	326	0.1	351	0.1	335	0.1	311	0.1	356	0.1	348	0.1	387	0.1	358	0.1	346
	1982	ND		0.2	345	0.3	354	0.1	350	0.2	311	0.1	360	0.1	353	0.1	349	0.2	354	0.2	346
	1983	ND		0.1	348	0.2	350	0.1	324	0.2	342	<.1	335	0.1	367	0.1	345	0.1	389	0.1	351
	1984	ND		0.1	341	0.2	364	<.1	328	0.1	322	0.1	323	0.1	328	0.1	326	0.1	293	0.1	326
	1985	ND		0.1	340	0.2	370	0.1	333	0.1	330	0.1	336	0.1	337	0.2	347	0.1	331	0.1	339
	1986	0.1	299	0.1	363	0.1	376	0.1	346	0.1	377	<.1	348	0.1	371	0.1	368	0.2	363	0.1	361
	1987	0.1	335	0.1	336	0.1	350	0.1	308	0.1	345	0.1	394	0.1	337	<.1	381	0.1	402	0.1	351
	1988	<.1	346	0.1	350	0.2	353	0.1	365	0.1	342	0.1	372	<.1	350	<.1	419	0.1	387	0.1	363
Atlantic croaker	1975	ND		<.1	245	ND		0.0		0.1	312	0.2	338	0.4	321	0.1	314	0.1	343	0.1	323
	1976	ND		0.2	262	0.1	248	0.3	263	0.4	296	0.2	314	0.6	320	0.5	329	0.3	326	0.3	301
	1977	ND		0.1	291	0.1	275	0.2	274	0.2	290	0.8	307	0.6	350	0.7	345	0.2	340	0.3	319
	1978	ND		0.1	274	0.1	248	0.2	255	0.1	242	0.5	314	0.4	296	0.4	283	<.1	331	0.2	288
	1979	ND		<.1	271	0.2	248	0.1	287	0.2	270	0.2	303	0.5	326	0.1	316	0.2	331	0.2	305
	1980	ND		0.2	284	0.1	262	0.2	261	0.1	264	0.2	320	1.7	320	0.1	302	0.2	298	0.3	303
	1981	ND		0.2	279	0.2	254	0.1	273	0.2	268	0.7	328	0.8	320	0.2	323	0.4	320	0.3	310
	1982	ND		0.4	282	0.4	256	0.1	277	0.2	278	0.4	328	1.0	327	0.4	338	0.3	330	0.4	310
	1983	ND		0.3	275	0.4	261	0.2	263	0.5	286	0.3	309	1.0	320	0.1	312	0.5	314	0.4	299
	1984	ND		0.2	274	0.2	259	0.2	259	0.2	252	0.1	261	0.5	274	0.1	264	0.2	270	0.2	268
	1985	ND		0.6	272	0.4	258	0.1	254	0.1	261	0.3	268	0.6	279	0.2	307	0.3	281	0.3	274
	1986	0.2	296	0.4	281	0.1	261	0.2	253	0.2	256	0.3	280	1.4	305	0.1	322	0.3	299	0.4	289
	1987	0.1	287	0.8	288	0.1	252	0.3	253	<.1	253	0.2	283	1.5	323	0.1	321	0.3	322	0.4	298
	1988	0.2	276	0.6	291	0.1	267	0.3	255	0.2	255	0.3	301	0.8	317	0.1	357	0.3	318	0.3	295

Table 2. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Sand seatrout	1975	ND		0.2	309	ND		0.3	291	0.0		<.1	308	<.1	288	0.0		0.0		0.1	299
	1976	ND		0.1	293	0.1	297	<.1	301	0.0		0.0		0.2	301	<.1	398	0.0		0.1	307
	1977	ND		0.1	312	0.0		<.1	321	0.0		0.0		0.0		<.1	377	0.0		<.1	315
	1978	ND		<.1	303	0.0		<.1	184	0.0		0.0		0.0		0.0		0.0		<.1	254
	1979	ND		<.1	252	0.0		<.1	256	<.1	211	0.0		0.1	294	<.1	268	0.0		<.1	272
	1980	ND		0.1	302	0.0		<.1	220	0.0		0.0		0.0		0.0		<.1	326	<.1	299
	1981	ND		<.1	252	<.1	238	<.1	242	<.1	175	<.1	226	<.1	247	<.1	335	<.1	305	<.1	255
	1982	ND		0.1	299	<.1	246	<.1	250	<.1	250	<.1	297	<.1	290	<.1	265	<.1	305	<.1	288
	1983	ND		<.1	306	<.1	235	<.1	274	<.1	240	<.1	297	<.1	278	0.0		<.1	291	<.1	291
	1984	ND		0.1	308	<.1	315	<.1	284	<.1	282	<.1	277	<.1	296	0.0		<.1	301	<.1	302
	1985	ND		0.1	280	<.1	255	<.1	252	<.1	332	<.1	237	<.1	262	0.0		<.1	325	<.1	279
	1986	<.1	281	<.1	304	<.1	239	<.1	254	<.1	254	<.1	206	<.1	250	<.1	249	<.1	279	<.1	288
	1987	<.1	300	0.1	285	<.1	220	<.1	240	0.0		0.0		<.1	250	0.0		<.1	338	<.1	276
	1988	<.1	230	0.1	302	<.1	249	<.1	251	<.1	291	0.0		<.1	319	0.0		<.1	328	<.1	301
Gafftop-sail catfish	1975	ND		0.0		ND		0.1	571	<.1	493	<.1	552	0.1	575	0.0		0.0		<.1	567
	1976	ND		0.1	482	0.0		0.2	526	0.4	498	<.1	587	<.1	475	0.0		0.0		0.1	509
	1977	ND		<.1	516	0.0		<.1	499	0.2	526	<.1	385	<.1	600	0.1	529	0.0		<.1	516
	1978	ND		0.0		0.0		<.1	514	<.1	543	0.0		0.1	551	0.0		0.0		<.1	534
	1979	ND		0.0		0.2	542	0.0		0.1	499	<.1	533	0.0		0.0		<.1	282	<.1	511
	1980	ND		0.1	550	0.0		<.1	478	0.3	509	0.1	522	0.1	517	0.0		0.0		0.1	525
	1981	ND		0.1	492	0.0		<.1	505	<.1	542	0.1	511	0.1	523	0.0		<.1	379	<.1	507
	1982	ND		<.1	423	<.1	616	<.1	520	0.3	527	0.1	533	<.1	545	<.1	541	0.0		0.1	517
	1983	ND		<.1	492	0.1	473	<.1	498	0.3	514	0.1	544	0.1	532	0.0		<.1	408	0.1	514
	1984	ND		<.1	517	0.1	474	0.1	510	0.3	507	0.1	521	<.1	488	0.0		<.1	315	0.1	509
	1985	ND		0.1	525	0.1	482	<.1	498	0.1	546	0.1	556	0.1	519	<.1	556	<.1	511	0.1	528
	1986	0.1	462	<.1	521	<.1	473	<.1	474	0.2	485	0.1	532	<.1	514	0.0		<.1	356	<.1	495
	1987	<.1	423	0.1	491	0.1	527	<.1	512	<.1	519	0.1	542	<.1	528	0.0		<.1	390	<.1	514
	1988	<.1	370	<.1	515	<.1	534	0.2	521	0.1	544	0.1	538	0.1	521	<.1	495	<.1	325	0.1	525
Gulf menhaden	1975	ND		0.5	272	ND		1.7	302	0.4	221	0.2	307	0.5	284	0.3	280	0.1	312	0.5	286
	1976	ND		2.7	240	<.1	270	0.3	246	0.3	275	0.1	267	0.5	275	0.2	304	0.1	275	0.8	255
	1977	ND		3.0	246	<.1	248	0.2	244	0.1	240	<.1	237	2.0	254	1.4	258	0.1	211	1.0	249
	1978	ND		0.6	249	0.5	249	<.1	241	0.1	239	0.6	242	1.4	250	0.2	254	0.0		0.4	248
	1979	ND		0.1	249	0.1	231	0.4	250	<.1	235	0.1	251	0.3	251	0.1	261	<.1	294	0.1	252
	1980	ND		0.3	253	0.0		<.1	260	0.1	255	0.1	245	<.1	243	0.6	249	0.1	325	0.2	254
	1981	ND		0.7	259	<.1	260	0.1	246	0.1	242	0.1	238	0.3	255	0.7	262	0.1	273	0.3	258
	1982	ND		0.6	251	<.1	310	<.1	246	0.1	243	<.1	238	0.8	255	0.1	264	<.1	239	0.2	252
	1983	ND		1.7	257	0.1	248	<.1	249	0.2	239	0.2	246	0.2	258	<.1	290	<.1	250	0.5	255
	1984	ND		1.0	256	0.2	255	0.4	248	0.4	246	0.6	251	0.5	284	0.2	273	0.2	295	0.5	259
	1985	ND		1.5	249	<.1	253	0.1	254	0.1	249	0.1	263	0.5	260	0.2	281	0.1	279	0.4	253
	1986	0.2	246	1.5	244	0.1	233	0.3	239	0.1	244	0.2	249	0.9	263	<.1	249	<.1	262	0.5	247
	1987	0.1	244	1.8	250	0.0		0.1	244	0.0	278	<.1	250	0.2	259	<.1	256	<.1	278	0.4	250
	1988	0.2	268	0.8	244	<.1	206	0.2	233	0.1	241	<.1	252	0.1	264	<.1	249	0.1	317	0.2	247

Table 2. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./h	Sabine Lake Length	Galveston No./h	Galveston Length	East Matagorda No./h	East Matagorda Length	Matagorda No./h	Matagorda Length	San Antonio No./h	San Antonio Length	Aransas No./h	Aransas Length	Corpus Christi No./h	Corpus Christi Length	Upper Laguna Madre No./h	Upper Laguna Madre Length	Lower Laguna Madre No./h	Lower Laguna Madre Length	Coastwide No./h	Coastwide Length
Hardhead catfish	1975	ND		0.8	318	ND		0.2	309	0.5	320	0.2	303	0.3	325	0.5	307	0.3	298	0.4	314
	1976	ND		0.7	347	<.1	322	0.2	283	0.8	310	0.2	289	0.3	300	0.4	291	0.5	292	0.4	314
	1977	ND		0.6	338	<.1	331	0.1	305	0.2	321	0.1	323	0.2	322	0.3	309	0.7	320	0.3	325
	1978	ND		1.4	340	0.1	304	0.2	283	0.1	318	0.2	337	0.3	318	0.4	285	0.6	341	0.5	330
	1979	ND		1.5	350	0.2	338	0.2	321	0.7	338	0.2	348	0.3	331	0.4	291	0.4	335	0.6	340
	1980	ND		0.7	333	0.4	329	0.1	331	0.7	316	0.3	326	0.3	353	0.4	294	0.5	330	0.4	326
	1981	ND		1.0	341	0.3	319	<.1	313	1.0	345	0.4	345	0.4	347	0.2	312	0.7	348	0.6	340
	1982	ND		1.7	341	0.4	334	0.2	332	0.8	342	0.3	347	0.3	346	0.6	305	0.8	331	0.7	336
	1983	ND		1.1	344	0.4	337	0.4	331	0.6	326	0.4	353	0.5	342	1.0	317	0.9	352	0.7	339
	1984	ND		1.6	330	1.3	322	0.8	326	1.0	337	0.6	340	0.4	342	0.9	307	0.9	329	1.0	329
	1985	ND		1.0	329	0.5	327	0.7	346	0.9	355	0.5	354	0.5	349	0.7	313	0.9	317	0.8	335
	1986	<.1	335	0.2	338	0.4	342	0.5	336	1.0	351	0.6	355	0.4	356	0.5	299	0.8	353	0.7	342
	1987	0.1	320	0.7	337	0.5	320	0.8	343	0.9	358	0.3	355	0.4	369	0.3	314	0.5	366	0.6	346
	1988	0.2	315	1.2	337	1.0	338	1.1	341	1.1	351	0.5	349	0.7	347	0.4	318	1.0	340	0.9	341
Pinfish	1975	ND		0.0		ND		0.0		0.0		0.0		<.1	180	<.1	178	0.0		<.1	179
	1976	ND		0.0		0.1	199	0.0		0.2	212	0.0		<.1	212	<.1	240	<.1	220	<.1	212
	1977	ND		0.0		0.0		0.0		0.0		<.1	210	0.0		0.1	277	0.1	209	<.1	250
	1978	ND		<.1	238	<.1	168	0.0		0.1	222	<.1	247	<.1	217	<.1	190	<.1	230	<.1	221
	1979	ND		0.0		0.0		<.1	181	0.0		0.0		<.1	224	<.1	155	<.1	218	<.1	210
	1980	ND		<.1	157	0.0		0.0		0.0		0.0		0.2	238	<.1	186	0.0		<.1	221
	1981	ND		<.1	221	0.0		<.1	230	<.1	177	<.1	214	<.1	231	<.1	231	<.1	206	<.1	218
	1982	ND		<.1	207	<.1	227	<.1	202	<.1	187	<.1	217	0.1	241	<.1	217	<.1	239	<.1	220
	1983	ND		<.1	192	<.1	202	<.1	178	<.1	187	<.1	174	0.2	236	0.1	185	<.1	209	<.1	206
	1984	ND		<.1	154	0.0		<.1	194	<.1	154	<.1	179	<.1	224	<.1	190	<.1	172	<.1	183
	1985	ND		<.1	192	<.1	170	<.1	193	<.1	206	<.1	162	<.1	189	<.1	182	<.1	182	<.1	185
	1986	<.1	51	<.1	200	<.1	211	<.1	150	0.0		<.1	218	<.1	176	<.1	188	<.1	143	<.1	183
	1987	0.0		<.1	176	<.1	226	<.1	177	<.1	143	<.1	177	0.3	225	<.1	181	<.1	191	<.1	202
	1988	0.0		<.1	204	<.1	220	<.1	171	<.1	165	<.1	169	<.1	228	<.1	206	<.1	185	<.1	200
Spot	1975	ND		0.0		ND		<.1	305	<.1	245	0.1	247	0.9	245	0.4	267	0.2	236	0.2	251
	1976	ND		0.4	236	<.1	260	0.2	229	0.3	236	<.1	238	0.3	228	0.2	236	0.5	257	0.3	240
	1977	ND		0.2	234	<.1	257	<.1	256	0.2	240	0.1	243	0.3	231	0.2	252	0.4	250	0.2	243
	1978	ND		0.1	226	0.1	234	0.4	236	0.1	267	0.1	259	0.2	248	0.3	256	0.1	223	0.2	244
	1979	ND		0.0		0.0		<.1	260	<.1	274	<.1	295	<.1	257	0.1	246	0.2	249	<.1	257
	1980	ND		0.1	235	<.1	222	0.4	235	0.1	246	<.1	217	0.3	244	0.1	240	<.1	250	0.1	238
	1981	ND		0.1	240	0.2	237	<.1	240	<.1	253	<.1	264	0.1	244	0.2	243	0.1	237	0.1	243
	1982	ND		0.3	238	<.1	246	0.1	232	0.1	245	0.1	241	0.5	260	0.2	240	0.2	246	0.2	245
	1983	ND		0.2	242	0.2	245	<.1	243	0.2	246	0.1	246	0.3	263	0.1	235	0.2	244	0.2	246
	1984	ND		0.1	238	0.1	242	0.1	240	0.1	241	0.1	240	0.4	251	<.1	230	<.1	231	0.1	243
	1985	ND		0.3	233	<.1	229	0.1	234	0.1	237	0.1	237	0.3	240	0.5	230	0.3	231	0.2	233
	1986	0.1	233	0.2	237	0.1	239	0.1	238	0.1	231	0.1	237	0.5	241	0.1	229	0.2	243	0.2	239
	1987	0.1	233	0.2	235	<.1	230	0.1	220	<.1	225	0.1	232	0.4	249	<.1	238	0.1	236	0.1	236
	1988	0.1	237	0.2	237	<.1	242	0.2	232	<.1	246	0.1	234	0.5	257	0.1	240	0.2	245	0.2	243

Table 2. (Cont'd.)

Species	Year	Bay system																			
		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	1975	ND		0.3	331	ND		0.4	347	0.6	322	2.5	328	1.0	382	0.3	358	0.5	345	0.7	339
	1976	ND		0.3	346	0.2	320	0.3	349	1.6	331	0.5	360	0.3	342	0.6	402	2.0	397	0.7	367
	1977	ND		0.2	345	0.2	380	0.4	330	0.9	343	0.3	321	0.4	371	0.3	396	0.6	354	0.4	348
	1978	ND		0.2	423	0.6	330	0.6	342	0.5	322	1.1	336	0.1	336	0.1	364	0.3	387	0.4	347
	1979	ND		0.1	351	0.1	338	0.3	340	0.7	344	0.7	344	0.3	353	0.6	410	0.3	365	0.4	357
	1980	ND		0.2	363	<.1	319	0.2	343	0.6	357	0.6	357	0.3	340	0.3	360	0.4	346	0.3	353
	1981	ND		0.1	395	0.1	349	0.1	332	0.6	341	0.5	334	0.3	353	0.3	364	0.9	363	0.4	352
	1982	ND		0.2	376	0.4	329	0.3	330	0.4	341	0.8	331	0.2	345	0.1	348	0.4	372	0.4	347
	1983	ND		0.2	370	0.2	335	0.2	339	0.3	334	0.5	350	0.2	347	0.3	383	0.6	375	0.3	358
	1984	ND		0.4	362	0.7	328	0.3	331	0.5	350	0.6	342	0.4	357	0.5	376	0.4	356	0.5	352
	1985	ND		0.2	338	0.2	326	0.2	323	0.5	355	0.3	343	0.2	342	0.3	397	0.3	375	0.3	354
	1986	<.1	328	0.1	377	0.3	328	0.1	337	0.4	369	0.2	356	0.2	358	<.1	370	0.6	359	0.2	359
	1987	<.1	325	0.2	375	0.4	333	0.7	319	1.1	360	0.6	348	0.3	338	0.1	391	0.4	382	0.5	351
	1988	<.1	331	0.2	362	0.4	344	0.4	326	0.4	347	0.4	365	0.3	370	0.4	409	0.4	396	0.3	366
Other finfishes	1975	ND		1.4	505	ND		1.0	461	0.6	438	1.1	415	1.0	358	0.5	383	1.0	365	1.0	439
	1976	ND		1.0	397	0.1	316	1.4	483	1.1	493	1.6	420	1.0	380	0.2	439	1.1	380	1.0	428
	1977	ND		0.5	563	0.2	322	2.7	408	2.0	346	0.4	473	1.1	321	0.4	311	0.9	379	1.1	397
	1978	ND		0.5	311	0.2	293	1.2	365	2.0	463	0.6	403	0.2	325	0.5	443	0.8	403	0.8	393
	1979	ND		0.6	386	<.1	540	0.9	371	0.6	418	0.5	514	0.4	330	0.2	360	0.6	410	0.5	403
	1980	ND		0.4	375	0.1	314	0.6	376	1.1	315	0.6	323	0.3	295	0.3	424	0.2	388	0.5	350
	1981	ND		0.9	371	0.5	344	0.6	469	0.9	468	1.0	455	1.1	403	0.2	397	0.6	415	0.7	421
	1982	ND		1.0	353	0.7	319	1.1	491	1.0	491	0.8	437	0.8	386	0.3	380	0.7	422	0.8	422
	1983	ND		1.2	412	1.7	286	1.5	415	1.0	420	0.8	574	1.8	367	0.1	394	0.6	417	1.1	418
	1984	ND		1.1	393	0.8	308	1.6	515	0.3	633	0.8	679	0.7	412	0.1	441	0.6	526	0.8	491
	1985	ND		1.0	369	0.4	341	0.7	516	0.5	582	0.3	719	0.3	429	0.1	376	0.5	435	0.6	460
	1986	0.8	482	0.8	373	1.1	455	1.3	499	0.6	529	0.6	483	0.6	339	0.1	465	0.5	407	0.7	447
	1987	0.8	549	0.9	358	0.3	438	0.9	350	1.2	507	0.3	464	0.5	331	0.1	449	0.4	448	0.6	412
	1988	1.0	462	1.0	342	1.2	434	1.1	424	1.3	496	0.9	551	0.8	350	<.1	366	0.5	407	0.9	429
Total finfishes	1975	ND		5.1	396	ND		6.6	355	4.9	339	7.9	345	5.7	343	4.3	374	4.8	394	5.5	365
	1976	ND		7.2	334	4.0	385	4.9	388	9.1	365	5.0	363	5.0	349	5.1	383	11.1	400	6.8	369
	1977	ND		6.2	334	3.2	362	5.4	389	6.2	348	3.6	344	5.8	326	5.2	343	6.5	381	5.5	353
	1978	ND		4.0	342	4.0	325	5.0	359	5.1	383	5.2	341	3.8	322	3.6	358	3.1	395	4.3	355
	1979	ND		3.5	367	2.0	372	4.3	350	5.6	368	3.8	372	3.5	327	2.6	367	3.5	393	3.7	365
	1980	ND		4.0	371	2.9	375	3.3	346	6.1	342	4.8	350	5.0	336	2.5	354	4.2	390	4.3	357
	1981	ND		4.2	357	3.3	355	3.0	384	4.8	358	4.4	375	4.8	364	3.1	357	5.5	388	4.2	369
	1982	ND		6.2	346	6.2	354	3.7	372	5.1	360	4.5	366	5.1	338	3.5	363	5.9	381	5.0	360
	1983	ND		6.0	350	6.2	341	4.0	378	5.3	352	3.9	396	5.8	356	3.0	362	5.5	399	4.9	367
	1984	ND		6.5	364	5.7	379	4.4	369	3.9	362	3.8	399	4.2	347	3.1	373	4.2	406	4.6	373
	1985	ND		7.1	335	4.5	366	3.7	380	4.2	376	3.3	396	4.0	358	3.4	362	4.6	390	4.6	364
	1986	2.6	395	6.0	349	4.4	390	5.4	387	4.7	408	4.0	378	5.3	347	2.4	381	5.2	404	4.7	377
	1987	2.2	430	5.8	334	4.7	390	5.0	323	5.2	428	3.3	391	4.9	353	1.6	406	4.6	444	4.4	374
	1988	2.5	371	6.2	346	6.5	398	5.5	361	5.8	393	4.3	382	5.0	358	3.1	396	5.7	410	5.2	374

Table 2. (Cont'd.)

Species	Year	Bay system																	
		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
Blue crab	1983	ND		0.1	136	0.3	153	0.1	151	0.1	138	0.2	146	0.2	146	0.3	146	0.3	146	0.2	144
	1984	ND		0.1	151	0.1	140	0.1	147	0.1	147	0.2	145	0.2	141	0.2	138	0.2	148	0.1	145
	1985	ND		0.1	149	0.1	154	<.1	142	0.1	139	0.1	141	0.1	143	0.2	147	0.1	148	0.1	145
	1986	0.2	150	<.1	146	<.1	144	<.1	161	0.1	146	<.1	138	0.1	144	<.1	147	0.1	149	0.1	147
	1987	0.2	154	0.1	140	0.1	158	0.2	154	0.3	153	0.1	158	0.1	157	0.3	157	0.1	152	0.2	153
	1988	0.2	155	0.1	144	0.2	150	<.1	137	0.1	138	0.1	145	0.1	147	<.1	129	<.1	152	0.1	147

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 1977-1988. Blank indicates no measurement taken; ND = no data.

		Bay system																			
		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Species	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
FINFISHES																					
Red drum	1977[a]	ND		20	35	ND		8	51	85	51	14	44	1	41	0		1	39	18	46
	1978	ND		3	67	ND		4	43	13	51	4	94	3	67	11	58	17	52	7	58
	1979	ND		17	62	ND		6	92	11	67	4	92	18	85	27	66	15	64	14	70
	1980	ND		59	74	ND		8	68	28	50	5	88	16	75	4	82	15	72	23	70
	1981	ND		26	52	ND		9	86	29	53	30	38	40	46	5	46	45	56	26	52
	1982	ND		53	62	ND		9	76	19	102	26	103	21	62	1	55	16	89	24	76
	1983	ND		47	67	11[b]	66	4	70	7	99	12	98	7	88	2	59	41	92	20[b]	78
	1984	ND		13	66	6	70	2	108	12	56	4	100	4	80	2	52	4	73	6	69
	1985	ND		3	131	10	106	7	96	7	114	19	82	9	67	1	61	17	69	9	86
	1986	19	66	8	87	8	86	2	78	6	105	1	117	4	98	3	84	22	94	7	90
	1987	6	99	45	58	47	61	16	88	15	89	9	59	7	71	2	117	32	63	21	66
	1988	13	78	8	78	27	79	3	114	6	89	10	78	9	49	4	66	21	63	10	73
Spotted seatrout	1977[a]	ND		35	87	ND		39	84	50	73	1	99	7	84	16	83	5	85	23	82
	1978	ND		35	52	ND		6	86	11	69	8	50	4	59	14	93	2	52	14	61
	1979	ND		37	79	ND		3	83	12	70	7	68	12	53	14	80	2	86	14	75
	1980	ND		17	72	ND		3	84	21	71	11	74	11	79	3	56	<1	60	10	73
	1981	ND		16	85	ND		6	110	9	68	13	70	12	65	4	73	6	84	10	80
	1982	ND		37	82	ND		7	99	19	62	15	76	4	75	5	78	3	76	15	79
	1983	ND		26	84	4[b]	101	7	73	8	72	14	81	4	79	4	101	4	80	11[b]	82
	1984	ND		6	71	2	85	4	77	1	83	10	74	1	54	1	88	5	98	4	77
	1985	ND		5	80	24	73	11	87	4	64	24	61	3	50	9	70	2	78	9	70
	1986	2	67	2	85	17	66	5	71	5	78	12	60	4	68	1	72	2	58	5	68
	1987	2	92	22	73	14	68	3	82	19	70	13	69	10	76	1	104	3	63	11	72
	1988	7	88	6	88	14	75	5	96	7	67	28	68	7	65	5	65	3	87	9	74
Black drum	1977[a]	ND		0		ND		11	147	6	179	1	142	1	150	0		0		3	156
	1978	ND		36	95	ND		9	112	22	110	2	165	1	122	4	106	0		13	102
	1979	ND		40	83	ND		12	106	5	97	1	85	8	89	6	140	18	98	16	92
	1980	ND		4	93	ND		4	102	0		2	100	2	75	3	95	1	142	3	97
	1981	ND		12	122	ND		11	110	2	141	5	141	2	113	11	44	6	130	8	108
	1982	ND		4	124	ND		5	138	9	90	7	94	1	109	<1	155	2	117	4	110
	1983	ND		23	91	3[b]	123	3	118	1	132	2	145	2	108	2	107	<1	141	6[b]	98
	1984	ND		8	108	1	103	3	156	0		1	140	0		1	82	<1	91	2	115
	1985	ND		4	141	3	83	3	113	1	122	<.1	124	1	68	6	86	0		2	112
	1986	2	141	2	107	5	85	0		1	149	0		<1	96	2	78	1	145	1	110
	1987	0		1	106	0		4	130	1	118	0		6	74	44	63	1	89	6	72
	1988	2	146	5	107	5	94	6	126	2	132	2	128	2	112	8	90	2	158	4	114

Table 3. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Sheepshead	1977[a]	ND		0		ND		2	128	0		0		0		0		0		<1	128
	1978	ND		0		ND		<1	86	<1	68	1	54	1	59	1	122	2	61	1	70
	1979	ND		15	66	ND		1	94	6	63	2	56	13	41	0		1	50	6	61
	1980	ND		1	114	ND		1	163	1	41	1	51	0		0		1	60	1	86
	1981	ND		1	158	ND		2	68	0		1	95	1	41	0		1	92	1	101
	1982	ND		1	174	ND		0		3	67	<1	62	<1	50	0		0		1	90
	1983	ND		1	23	<1[b]	93	<1	50	1	102	<1	67	<1	99	0		3	52	1[b]	52
	1984	ND		0		<1	178	<1	90	1	30	<1	36	<1	30	0		0		<1	43
	1985	ND		2	20	1	58	<1	157	3	39	1	35	0		0		2	57	1	43
	1986	0		<1	114	<1	32	<1	203	1	48	1	50	0		0		1	73	<1	80
	1987	0		0		1	91	<1	94	<1	53	0		0		0		1	47	<1	64
	1988	0		<1	60	2	69	<1	124	2	58	1	55	3	35	0		<1	40	1	56
Southern flounder	1977[a]	ND		0		ND		1	171	0		0		0		0		0		<1	171
	1978	ND		9	40	ND		<1	43	4	67	<1	98	1	44	<1	128	1	46	3	42
	1979	ND		1	85	ND		<1	135	2	85	0		1	122	2	46	1	38	1	71
	1980	ND		10	54	ND		1	38	2	55	0		3	64	1	43	5	38	4	51
	1981	ND		5	57	ND		7	79	2	53	2	90	1	67	1	66	11	55	4	64
	1982	ND		9	67	ND		3	82	6	56	18	37	2	62	1	53	13	39	8	51
	1983	ND		10	46	1[b]	75	2	54	3	58	6	39	1	34	0		3	45	4[b]	46
	1984	ND		2	83	2	69	1	78	1	67	3	62	3	45	1	86	1	64	2	69
	1985	ND		4	58	5	78	3	112	1	43	7	55	5	55	<1	71	2	67	3	64
	1986	2	83	4	83	6	70	19	66	2	78	4	64	2	54	1	79	12	44	6	63
	1987	2	47	20	51	9	54	1	62	3	44	1	103	1	37	1	69	3	56	6	53
	1988	15	66	14	61	3	76	3	85	3	69	5	48	1	65	<1	60	5	60	6	63
Atlantic croaker	1977[a]	ND		20	96	ND		0		0		1	36	11	50	1	181	4	83	6	88
	1978	ND		320	61	ND		239	59	10	100	37	73	1	30	11	86	29	38	122	61
	1979	ND		463	52	ND		109	74	52	49	7	76	25	65	3	92	221	44	162	53
	1980	ND		1085	55	ND		82	69	17	89	16	56	24	49	1	40	198	42	290	54
	1981	ND		528	57	ND		24	94	26	73	26	42	20	55	1	112	32	46	136	58
	1982	ND		1812	61	ND		165	74	68	67	142	61	32	54	<1		49	53	471	62
	1983	ND		888	55	56[b]	79	236	66	67	80	63	62	6	61	2	86	49	51	254[b]	58
	1984	ND		807	59	210	64	483	60	25	83	150	68	1160	61	4	102	133	59	402	60
	1985	ND		242	64	121	63	299	72	13	88	46	78	4	76	11	87	87	42	122	66
	1986	126	74	148	77	198	68	2138	52	18	99	12	72	12	78	<1	89	62	57	364	55
	1987	79	70	335	54	110	56	207	78	33	47	9	81	4	40	<1	60	10	62	113	61
	1988	154	68	485	53	160	51	60	80	13	66	3	50	8	50	0		15	63	125	56

Table 3. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Sand seatrout	1977[a]	ND		0		ND		11	61	0		0		0		0		0		2	61
	1978	ND		13	58	ND		3	59	0		0		<1	54	0		0		4	58
	1979	ND		35	58	ND		14	70	2	75	<1	33	1	77	0		0		10	61
	1980	ND		8	61	ND		7	82	<1	64	<1	89	<1		0		0		3	69
	1981	ND		21	60	ND		2	72	0		0		1	76	0		<1	78	5	61
	1982	ND		47	57	ND		12	67	<1	35	<1	76	<1	73	0		<1	65	13	58
	1983	ND		67	53	10[b]	59	30	64	<1	47	1	70	2	53	0		0		15[b]	56
	1984	ND		49	55	7	66	22	54	0		0		0		0		8	41	15	54
	1985	ND		11	60	8	59	12	71	0		<1	67	1	82	0		<1	60	5	65
	1986	6	71	9	50	4	60	9	64	0		0		<1	57	0		0		4	57
	1987	4	63	16	58	10	61	14	65	1	61	0		0		0		0		6	61
	1988	5	54	5	53	38	40	6	66	<1	69	0		0		0		0		3	52
Gulf menhaden	1977[a]	ND		21	76	ND		0		0		0		1	58	0		0		5	76
	1978	ND		533	31	ND		3963	47	169	64	3310	44	2	41	44	42	71	29	1249	44
	1979	ND		122	53	ND		867	43	0		817	38	335	38	6	37	1	31	312	41
	1980	ND		14717	46	ND		115	50	24	52	48	30	7	49	4	40	54	31	3343	46
	1981	ND		196	45	ND		348	51	52	41	355	48	9	41	721	42	11	38	246	45
	1982	ND		4732	49	ND		820	48	1025	37	137	33	1068	36	9	31	130	32	1455	47
	1983	ND		4971	66	1324[b]	44	809	44	67	42	16	34	619	33	2	30	5	47	1312[b]	62
	1984	ND		1822	44	470	48	1260	45	1084	42	840	39	552	52	128	49	69	56	923	44
	1985	ND		486	42	243	43	3819	50	866	45	48	39	122	37	62	44	20	49	812	48
	1986	3049	48	3024	38	1502	37	10076	52	612	36	27	34	11	46	36	44	12	36	2333	48
	1987	633	47	264	50	785	49	3550	60	35	40	68	36	11	34	32	63	18	27	637	57
	1988	600	40	2625	45	438	41	363	60	<1	43	80	30	<1	44	14	31	81	35	660	45
Hard-head catfish	1977[a]	ND		1	192	ND		2	108	15	91	0		0		6	105	1	114	3	106
	1978	ND		12	114	ND		20	107	11	104	2	88	1	72	6	88	3	84	9	105
	1979	ND		43	126	ND		16	116	5	148	1	119	8	154	4	116	10	120	16	125
	1980	ND		42	118	ND		13	122	1	107	1	134	2	88	<1	83	1	87	12	118
	1981	ND		14	119	ND		34	126	10	99	1	100	4	105	5	76	4	95	12	116
	1982	ND		32	103	ND		47	121	16	96	8	85	3	108	1	84	3	106	18	108
	1983	ND		70	113	26[b]	111	48	119	7	116	4	96	1	103	2	90	1	125	25[b]	114
	1984	ND		32	94	21	124	38	88	16	94	24	97	7	82	5	72	14	96	22	92
	1985	ND		36	86	10	118	29	115	2	112	19	101	2	85	9	74	3	134	17	97
	1986	17	122	24	125	38	112	54	127	30	103	15	96	<1	104	<1	62	11	94	22	116
	1987	4	105	38	107	70	104	49	111	6	94	<1	107	<1	150	0		3	88	18	107
	1988	5	109	21	97	17	129	27	118	1	122	5	113	4	91	0		41	88	15	102

Table 3. (Cont'd.)

Species	Year	Bay system																			
		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	1977[a]	ND		0		ND		32	114	24	105	22	105	66	93	167	102	13	101	39	103
	1978	ND		116	55	ND		24	61	77	75	54	74	133	69	41	84	7	64	65	65
	1979	ND		73	75	ND		43	79	60	79	47	85	81	61	14	122	1	107	47	77
	1980	ND		151	38	ND		16	50	363	58	167	66	250	61	17	88	153	59	152	56
	1981	ND		270	55	ND		68	69	131	70	107	85	267	67	40	84	132	75	151	66
	1982	ND		144	67	ND		34	66	603	55	448	67	265	62	100	73	349	57	261	61
	1983	ND		138	65	61[b]	61	115	80	514	49	642	68	532	66	25	82	211	67	279[b]	64
	1984	ND		245	59	180	64	107	71	172	66	457	62	214	54	146	79	120	77	212	64
	1985	ND		362	55	401	65	209	71	396	55	274	66	234	67	133	68	261	66	280	62
	1986	64	74	183	61	676	64	117	58	161	66	696	59	304	58	245	62	329	63	287	61
	1987	8	72	50	64	227	57	44	68	442	63	321	67	463	58	42	56	340	64	206	63
	1988	7	84	128	61	372	62	43	77	242	63	589	62	983	54	312	59	660	60	357	60
Spot	1977[a]	ND		56	100	ND		23	118	0		2	170	12	100	0		1	125	18	105
	1978	ND		407	52	ND		187	49	361	48	80	55	310	47	227	59	149	52	253	51
	1979	ND		352	42	ND		21	64	201	44	58	60	210	55	107	70	57	59	156	49
	1980	ND		269	57	ND		76	56	256	51	100	61	95	58	86	59	165	48	160	55
	1981	ND		331	52	ND		154	57	135	64	97	54	121	61	115	63	220	67	185	58
	1982	ND		404	62	ND		143	58	467	52	623	54	225	60	180	58	340	66	350	58
	1983	ND		459	57	50[b]	64	95	58	171	47	350	56	135	55	57	60	526	63	273[b]	58
	1984	ND		236	53	96	61	146	58	249	46	644	56	564	58	493	66	948	67	430	60
	1985	ND		179	62	158	59	216	59	274	44	254	64	228	55	80	77	169	54	197	58
	1986	118	65	135	68	319	56	825	51	102	58	258	51	160	60	114	55	614	54	314	54
	1987	19	80	264	60	383	60	83	58	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	270	59	209	62
Striped mullet	1977[a]	ND		31	140	ND		129	106	129	117	27	132	179	156	15	158	62	103	74	126
	1978	ND		56	120	ND		26	124	126	66	68	103	122	76	53	94	105	81	74	90
	1979	ND		135	89	ND		93	99	273	66	152	103	202	135	16	102	383	53	174	81
	1980	ND		90	117	ND		16	107	41	121	61	102	49	88	57	70	95	85	61	100
	1981	ND		229	57	ND		42	92	249	84	205	81	80	85	31	63	161	98	152	76
	1982	ND		128	66	ND		553	118	181	77	177	85	29	110	24	86	43	94	174	98
	1983	ND		85	94	62[b]	104	26	136	57	64	110	106	37	61	15	99	44	84	58[b]	94
	1984	ND		51	95	33	110	34	53	69	73	99	57	142	52	154	68	265	96	106	77
	1985	ND		75	110	199	89	49	92	22	134	95	58	22	62	70	53	119	81	72	84
	1986	84	103	34	134	20	144	23	86	37	93	22	91	62	67	23	57	41	66	35	92
	1987	48	98	244	56	60	89	33	96	63	115	127	73	141	56	94	37	72	103	116	76
	1988	42	80	115	115	69	90	44	64	16	116	84	50	189	49	64	62	27	125	74	80

Table 3. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Other finfishes	1977[a]	ND		776	51	ND		220	72	2797	45	1315	62	2510	54	1575	60	743	53	1273	54
	1978	ND		2562	52	ND		379	82	866	67	1471	58	936	64	869	56	522	50	1218	57
	1979	ND		1814	60	ND		450	69	2745	55	1999	63	1277	64	1157	67	1657	79	1591	64
	1980	ND		2090	68	ND		289	79	1134	69	994	65	1031	63	1939	62	382	62	1180	66
	1981	ND		1682	67	ND		384	82	1136	56	1179	64	1657	63	856	62	637	63	1094	64
	1982	ND		1546	68	ND		278	88	1967	54	3419	53	946	65	1034	52	393	57	1393	59
	1983	ND		1554	74	470[b]	75	481	80	1249	54	2839	58	814	59	620	59	490	61	1268[b]	65
	1984	ND		1329	61	591	65	524	77	1058	61	1239	61	704	59	880	52	340	65	897	62
	1985	ND		585	70	737	69	494	82	609	60	1727	56	759	50	1152	50	775	58	846	60
	1986	287	77	343	76	535	72	1225	69	874	51	1246	54	280	61	1128	45	563	62	767	59
	1987	346	69	931	65	798	63	307	83	521	65	1006	53	354	57	778	44	790	54	692	59
	1988	258	64	704	67	667	60	236	87	963	54	1981	60	980	54	1652	46	1020	65	990	59
Total finfishes	1977[a]	ND		954	59	ND		489	88	3106	52	1384	64	2788	60	1780	67	830	59	1464	61
	1978	ND		4103	53	ND		4855	67	1671	65	5038	64	1515	66	1282	62	908	54	3030	61
	1979	ND		3149	60	ND		1635	71	3375	57	3096	60	2191	70	1355	69	2368	72	2518	64
	1980	ND		18543	86	ND		632	77	1879	66	1407	68	1490	67	2116	63	1070	59	5242	82
	1981	ND		3334	63	ND		1093	83	1781	61	2020	66	2213	64	1792	54	1267	70	2028	65
	1982	ND		8950	68	ND		2077	78	4381	56	5021	57	2596	66	1355	58	1342	61	4188	65
	1983	ND		8725	71	2078[b]	63	1857	80	2147	55	4059	63	2160	59	734	62	1378	68	3528[b]	68
	1984	ND		4601	59	1617	66	2625	62	2687	58	3466	62	3353	52	1817	60	1907	71	3019	60
	1985	ND		1994	63	1921	68	5152	82	2200	65	2514	60	1389	56	1534	55	1458	60	2383	68
	1986	3776	69	3916	71	3329	63	14493	73	1849	60	2294	57	841	62	1554	51	1672	61	4146	69
	1987	1153	67	2230	64	2484	63	4312	79	1344	65	2030	58	1357	55	1012	46	1578	60	2073	66
	1988	1153	62	4346	71	2024	63	913	83	1391	58	3150	54	2343	56	2271	50	2143	65	2464	63
SHELLFISHES																					
Blue crab	1977[a]	ND		103	43	ND		31	46	52	46	95	56	56	38	16	58	9	63	56	47
	1978	ND		66	52	ND		10	38	52	51	57	62	33	43	98	61	19	60	49	55
	1979	ND		106	52	ND		27	51	76	49	84	62	152	43	90	48	61	54	83	51
	1980	ND		122	54	ND		24	56	119	45	65	52	80	38	65	40	176	46	95	48
	1981	ND		58	53	ND		44	44	51	54	85	45	86	40	42	58	167	35	75	44
	1982	ND		101	48	ND		31	51	108	42	193	48	52	49	35	54	175	42	102	46
	1983	ND		148	43	15	77	35	34	105	40	145	43	48	40	36	59	112	33	94	41
	1984	ND		88	58	58	60	58	42	42	46	61	50	62	42	37	61	80	46	64	51
	1985	ND		144	49	107	54	56	46	41	42	141	38	184	37	73	52	152	34	113	42
	1986	37	79	90	55	86	55	58	53	62	46	30	48	77	40	23	45	91	41	63	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	44	38	43	78	37	78	42

Table 3. (Cont'd.)

Species	Year	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Brown shrimp	1977[a]	ND		139	46	ND		64	52	200	49	229	54	99	58	9	63	200	53	137	51
	1978	ND		540	50	ND		167	63	102	63	152	60	258	56	188	68	120	53	245	56
	1979	ND		482	58	ND		194	66	69	63	438	63	499	61	53	59	155	59	285	61
	1980	ND		495	52	ND		143	68	553	60	386	60	183	62	64	64	234	56	314	58
	1981	ND		719	57	ND		157	74	310	64	355	60	679	53	102	76	1008	58	490	59
	1982	ND		915	64	ND		207	64	606	51	505	54	428	57	62	63	565	61	510	60
	1983	ND		484	60	100	76	248	66	310	57	530	60	295	56	58	65	532	50	360	58
	1984	ND		623	64	294	65	198	56	244	66	730	66	291	58	82	61	389	63	393	64
	1985	ND		522	60	413	59	364	63	306	56	755	61	370	55	288	70	1007	56	525	59
	1986	605	74	166	58	558	63	524	67	137	65	231	63	204	58	193	66	627	54	318	62
	1987	401	70	1162	58	388	56	445	64	158	60	464	62	293	60	417	56	963	58	611	59
	1988	248	61	516	62	570	57	208	61	206	53	357	58	394	64	757	73	461	62	416	63
Pink shrimp	1977[a]	ND		0		ND		0		12	41	0		0		48	77	0		7	69
	1978	ND		0		ND		0		<1	100	<1	63	0		26	77	0		3	77
	1979	ND		0		ND		0		0		0		58	51	12	78	<1	106	7	57
	1980	ND		0		ND		0		6	42	13	50	58	55	10	60	2	75	10	55
	1981	ND		0		ND		0		28	54	87	44	67	54	8	62	6	49	24	49
	1982	ND		0		ND		0		0		124	47	67	46	7	61	3	52	26	48
	1983	ND		0		0		0		9	51	50	56	31	47	12	54	0		12	53
	1984	ND		0		0		<1	25	1	73	15	48	26	48	14	65	<1	79	6	53
	1985	ND		0		0		0		0		18	59	8	49	8	76	0		4	61
	1986	0		0		<1	73	0		<1	68	15	39	25	49	6	43	3	65	5	46
	1987	0		0		0		<1	32	0		11	52	60	52	14	50	0		8	52
	1988	0		0		0		0		<1	38	135	49	106	50	<1	55	6	54	28	50
White shrimp	1977[a]	ND		1586	55	ND		1054	102	115	47	26	63	84	57	36	85	23	57	554	69
	1978	ND		858	66	ND		554	70	130	61	92	49	62	52	21	55	130	53	335	65
	1979	ND		1720	61	ND		543	70	212	56	99	64	817	52	5	53	143	47	608	61
	1980	ND		571	64	ND		522	68	291	57	133	61	141	69	62	71	18	45	288	64
	1981	ND		1393	62	ND		805	59	66	64	183	50	173	51	19	56	264	61	527	60
	1982	ND		3560	58	ND		1750	64	661	51	297	43	369	54	14	51	326	50	1277	58
	1983	ND		1524	50	348	70	394	65	135	64	129	53	135	42	7	71	218	52	478	53
	1984	ND		1543	59	409	65	1438	71	166	56	408	53	311	63	17	58	625	58	755	62
	1985	ND		307	61	552	61	584	63	37	44	239	44	33	53	6	73	204	54	242	58
	1986	308	73	1389	62	173	65	675	66	140	66	287	44	101	58	2	48	175	49	491	61
	1987	682	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

[a]Data for October - December only.

[b]East Matagorda Bay data are only for February-September 1983. Coastwide values do not include East Matagorda Bay data.

Table 4. Annual mean catch rates (No./h) and mean total lengths (mm) of select finfishes and shellfishes caught with 6.1-m trawls in Texas bay systems during 1982-1988. 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[b]	
		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		102		10		87	75	110		37		28		62	75
	1983	ND		30	131	ND		31	117	18	110	44	106	43	149	15	157	32	154	30	127
	1984	ND		15	126	ND		30	104	22	87	52	83	120	121	15	137	44	138	35	112
	1985	ND		20	124	ND		41	110	17	105	33	101	42	138	13	151	24	148	27	119
	1986	10	157	31	123	ND		52	114	44	105	57	96	83	125	14	139	28	153	42	117
	1987	25	139	26	117	17[c]	133	126	103	146	96	87	100	50	129	7	152	44	122	70	106
	1988	45	135	56	98	13	131	43	121	90	109	100	102	38	125	5	137	21	138	55	109
Black drum	1982[a]	ND		<1	259	ND		0		<1	221	<1	166	2	235	<1	264	0		<1	238
	1983	ND		<1	274	ND		<1	199	<1	192	<1	201	1	347	1	266	<1	440	<1	280
	1984	ND		<1	168	ND		0		0		<1	251	<1	341	1	202	<1	544	<1	253
	1985	ND		<1	242	ND		0		0		<1	403	<1	315	1	280	0		<1	267
	1986	<1	226	<1	233	ND		0		0		0		<1	334	<1	236	<1	335	<1	248
	1987	<1	278	<1	246	0[c]		0		<1	200	0		<1	186	1	247	<1	16	<1	234
	1988	1	271	<1	271	<1	192	<1	170	<1	154	<1	204	<1	299	1	197	0		<1	245
Gafftopsail catfish	1982[a]	ND		<1		ND		4		3		3		1	138	1	193	0		2	141
	1983	ND		<1	137	ND		1	132	2	123	2	135	<1	175	0		0		1	133
	1984	ND		<1	139	ND		1	144	5	121	2	109	<1	218	<1	131	<1	196	1	126
	1985	ND		<1	154	ND		2	137	2	128	3	128	1	150	0		<1	210	1	134
	1986	0		1	126	ND		2	134	5	128	2	121	<1	92	<1	158	0		1	128
	1987	<1	174	<1	145	1[c]	143	2	138	9	122	2	124	<1	132	<1	183	<1	175	2	127
	1988	0		<1	149	1	135	3	14	3	131	3	127	<1	14	0		0		1	124
Gulf menhaden	1982[a]	ND		12		ND		10		11		24		2		<1		<1		10	
	1983	ND		7	103	ND		10	109	17	76	3	89	3	104	1	87	0		8	96
	1984	ND		3	98	ND		3	93	23	58	45	44	4	82	6	76	<1	59	9	61
	1985	ND		18	112	ND		10	109	27	79	12	92	2	119	4	106	0		14	101
	1986	<1	121	17	95	ND		4	79	18	64	8	55	1	156	<1	49	0		9	84
	1987	3	101	20	95	15[c]	84	12	101	34	77	22	62	1	128	<1	92	0		16	88
	1988	3	94	22	80	1	96	16	96	11	99	4	106	1	124	1	58	<1	110	13	88
Hardhead catfish	1982[a]	ND		1		ND		3		2		8		29		25		6		7	
	1983	ND		1	177	ND		2	183	2	206	8	125	26	191	12	205	5	196	5	184
	1984	ND		1	186	ND		2	169	1	199	5	128	21	186	7	215	5	193	4	182
	1985	ND		2	159	ND		4	149	1	165	4	144	14	171	5	207	5	176	4	165
	1986	4	178	8	167	ND		3	147	1	187	9	149	18	172	2	233	10	207	7	170
	1987	5	186	4	176	4[c]	168	7	155	5	171	5	186	19	173	3	207	2	205	6	173
	1988	10	210	3	150	3	182	11	164	7	166	10	161	16	167	3	205	2	180	7	167

Table 4. (Cont'd.)

Species	Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide[b]	
		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	1982[a]	ND		1		ND		7		5		22		85		44		39		17	
	1983	ND		1	121	ND		6	110	14	106	38	106	119	124	20	133	45	109	22	119
	1984	ND		1	121	ND		6	107	7	96	39	96	25	113	67	108	73	111	15	107
	1985	ND		1	120	ND		9	111	23	104	53	110	48	118	18	133	48	110	18	113
	1986	4	117	2	118	ND		10	101	18	98	55	103	100	116	32	109	95	108	25	109
	1987	<1	126	1	122	5[c]	113	13	103	32	91	83	106	130	121	12	131	56	113	30	112
	1988	4	126	2	114	5	107	18	111	92	104	139	100	272	115	20	112	65	100	59	109
Red drum	1982[a]	ND		0		ND		<1		<1	230	<1	102	<1	649	<1	619	0		<1	394
	1983	ND		0		ND		0		<1	319	<1	224	0		0		<1	280	<1	242
	1984	ND		<1	583	ND		<1	305	<1	344	<1	142	<1	81	<1	241	<1	401	<1	306
	1985	ND		0		ND		<1	56	0		<1	54	<1	276	<1	475	<1	90	<1	293
	1986	<1	212	0		ND		0		<1	35	<1	78	0		<1	630	<1	340	<1	339
	1987	<1	405	<1	34	0[c]		0		0		0		<1	399	0		0		<1	145
	1988	<1	272	<1	53	0		0		0		<1	23	0		0		0<1	308	<1	72
Sand seatrout	1982[a]	ND		4		ND		5	185	<1	141	3	126	14	147	1	201	5	164	5	161
	1983	ND		3	134	ND		4	132	<1	108	3	111	9	158	<1	196	1	164	3	140
	1984	ND		2	147	ND		1	121	<1	115	1	107	4	141	0		1	161	1	138
	1985	ND		4	127	ND		3	126	<1	136	1	119	7	144	1	160	1	117	3	131
	1986	1	152	3	141	ND		2	117	<1	112	<1	133	5	148	0		<1	154	2	137
	1987	2	121	2	110	2	112	5	114	1	99	1	94	9	134	<1	156	<1	160	3	118
	1988	1	140	3	107	1	117	2	126	<1	123	2	107	3	125	<1	109	<1	128	2	115
Sheepshead	1982[a]	ND		<1	295	ND		0		<1	119	<1	85	<1	345	1	366	1	241	<1	288
	1983	ND		<1	344	ND		0		<1	113	<1	138	<1	365	1	358	<1	248	<1	322
	1984	ND		<1	339	ND		<1	147	0		<1	157	<1	342	<1	402	<1	300	<1	313
	1985	ND		<1	341	ND		<1	102	<1	112	<1	143	<1	259	<1	412	<1	80	<1	242
	1986	1	215	<1	451	ND		0		0		<1	122	<1	288	<1	356	1	160	<1	231
	1987	<1	279	<1	356	0[c]		<1	111	<1	124	<1	115	<1	299	<1	377	<1	156	<1	271
	1988	<1	332	<1	423	0		<1	112	<1	80	<1	95	<1	155	<1	247	<1	152	<1	240
Southern flounder	1982[a]	ND		<1	158	ND		<1	169	1	155	1	186	1	181	2	203	<1	279	1	176
	1983	ND		<1	175	ND		<1	196	<1	120	1	180	<1	242	<1	203	<1	161	<1	179
	1984	ND		<1	193	ND		<1	194	<1	153	2	148	<1	175	1	145	<1	168	<1	160
	1985	ND		<1	234	ND		<1	202	1	147	1	152	1	221	1	197	<1	261	<1	191
	1986	<1	141	1	161	ND		<1	165	1	141	1	144	1	184	1	262	<1	212	1	169
	1987	1	168	<1	231	<1[c]	154	<1	191	1	160	1	167	<1	171	0		<1	183	<1	181
	1988	1	144	<1	195	<1	132	<1	148	1	118	2	168	<1	214	<1	226	<1	205	<1	158

Table 4. (Cont'd.)

Species	Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide[b]	
		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
Spanish mackerel	1982[a]	ND		0		ND		<1	326	0		0		0		0		0		<1	326
	1983	ND		0		ND		0		0		0		0		0		0		0	
	1984	ND		0		ND		1	202	0		0		0		0		0		<1	202
	1985	ND		0		ND		<1	171	0		0		<1	233	0		0		<1	183
	1986	0		0		ND		0		0		0		0		0		0		0	
	1987	0		0		0[c]		<1	60	0		0		<1	138	0		0		<1	138
	1988	<1	170	<1	163	0		0		0		0		0		0		0		<1	163
Spot	1982[a]	ND		9		ND		26		5		68		33		10		4		19	
	1983	ND		6	120	ND		17	122	5	112	18	118	36	140	2	163	6	135	12	127
	1984	ND		8	115	ND		34	107	35	84	131	91	74	112	82	118	10	108	39	103
	1985	ND		13	121	ND		20	118	13	110	60	116	215	132	24	137	19	129	41	126
	1986	6	120	14	120	ND		29	121	21	99	92	106	115	129	6	118	5	135	34	119
	1987	9	134	11	127	12	119	38	115	34	97	86	117	122	125	4	158	13	112	37	119
	1988	24	113	14	117	5	107	42	127	116	108	151	116	235	127	4	140	18	118	66	120
Spotted seatrout	1982[a]	ND		<1	173	ND		0		<1	232	<1	163	<1	187	1	166	<1	142	<1	171
	1983	ND		<1	288	ND		<1	155	<1	168	2	207	<1	327	2	188	<1	200	<1	210
	1984	ND		<1	418	ND		<1	174	<1	252	<1	237	<1	385	<1	351	<1	236	<1	327
	1985	ND		<1	286	ND		<1	171	<1	156	1	156	<1	171	1	146	<1	218	<1	188
	1986	<1	187	<1	259	ND		<1	193	<1	170	<1	162	1	176	<1	151	1	196	<1	200
	1987	<1	147	<1	134	<1[c]	162	<1	143	1	166	1	164	<1	163	1	206	<1	198	<1	174
	1988	<1	188	<1	172	<1	166	<1	249	<1	159	2	166	<1	175	<1	176	<1	95	<1	172
Striped mullet	1982[a]	ND		<1		ND		<1		1		2		2	212	1	311	<1		1	235
	1983	ND		1	204	ND		<1	131	2	137	3	209	1	211	2	323	1	331	1	210
	1984	ND		1	244	ND		<1	204	<1	174	1	192	1	209	6	287	1	307	1	251
	1985	ND		2	195	ND		<1	163	<1	136	7	158	<1	168	1	243	<1	254	2	181
	1986	<1	187	4	255	ND		<1	116	<1	157	<1	158	1	226	<1	278	<1	266	1	250
	1987	1	168	2	292	<1[c]	158	<1	200	4	145	1	171	1	192	0		0		1	210
	1988	2	239	2	294	<1	167	<1	138	1	130	<1	156	3	185	<1	334	0		1	246
Other finfishes	1982[a]	ND		17	197	ND		35	104	9	23	51	69	93	113	192	204	70	219	43	146
	1983	ND		13	103	ND		90	80	46	73	52	86	69	121	114	82	52	137	52	90
	1984	ND		15	112	ND		34	95	11	73	33	77	44	92	13	65	35	138	24	96
	1985	ND		22	98	ND		25	103	11	84	62	60	51	116	27	67	50	131	29	96
	1986	2	171	15	94	ND		25	101	11	83	35	85	52	125	30	77	47	130	23	101
	1987	7	87	16	108	8[c]	116	38	94	34	93	64	69	38	117	36	85	40	136	31	96
	1988	15	89	33	84	18	109	51	104	40	91	99	83	60	115	40	80	60	126	47	95

Table 4. (Cont'd.)

Species	Year	Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide[b]	
		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	1982[a]	ND		88	199	ND		193	139	48	176	270	119	371	166	313	232	153	180	167	167
	1983	ND		63	126	ND		162	99	107	93	175	108	308	139	171	115	143	139	136	116
	1984	ND		46	123	ND		111	104	104	82	311	86	294	124	197	123	169	130	131	108
	1985	ND		82	117	ND		115	114	96	101	236	99	380	129	96	127	149	128	139	117
	1986	28	151	96	122	ND		127	112	118	97	261	104	378	132	86	109	188	132	147	117
	1987	53	136	83	121	64[c]	117	242	107	302	100	354	101	370	131	84	117	157	126	197	112
	1988	101	131	138	101	49	122	186	118	363	107	512	108	630	127	76	104	167	119	253	113
SHELLFISHES																					
Blue crab	1982[a]	ND		28	91	ND		5	99	17	81	29	66	7	97	9	148	10	100	17	89
	1983	ND		24	88	ND		10	86	21	80	40	81	2	96	7	113	12	97	18	86
	1984	ND		19	92	ND		4	88	8	82	31	81	8	88	24	106	50	86	15	90
	1985	ND		30	79	ND		10	85	19	76	23	72	5	115	21	103	36	86	21	81
	1986	6	132	28	79	ND		13	85	19	85	25	78	14	88	8	100	15	85	19	83
	1987	5	135	19	78	28	87	10	77	40	93	18	84	6	95	8	108	19	88	17	86
	1988	5	137	9	71	13	91	3	77	89	75	57	63	7	88	7	98	18	84	22	74
Brown shrimp	1982[a]	ND		23	90	ND		25	94	17	101	54	80	40	90	40	101	6	61	27	91
	1983	ND		12	99	ND		26	100	31	99	57	91	8	99	8	102	9	66	21	97
	1984	ND		13	102	ND		7	102	58	96	106	80	50	103	25	108	6	74	30	94
	1985	ND		33	75	ND		24	89	27	90	67	81	24	96	16	108	11	63	30	83
	1986	<1	99	15	94	ND		28	99	69	98	111	96	42	95	7	108	15	64	34	96
	1987	4	92	24	88	7	76	47	91	93	85	101	88	66	94	8	100	5	70	46	89
	1988	3	85	24	84	10	91	32	100	124	91	138	86	17	89	6	93	3	73	44	90
Pink shrimp	1982[a]	ND		<1	94	ND		<1	113	<1	96	7	89	2	100	1	96	0		1	93
	1983	ND		<1	95	ND		1	112	5	95	9	94	2	103	1	113	1	88	2	99
	1984	ND		0		ND		<1	76	<1	72	3	86	3	109	<1	94	<1	71	1	97
	1985	ND		<1	88	ND		<1	104	3	98	4	100	5	96	4	107	1	98	2	100
	1986	0		<1	118	ND		2	114	4	103	11	101	12	103	1	109	<1	70	3	104
	1987	0		<1	111	2	102	4	95	2	92	6	84	12	101	1	107	2	72	3	95
	1988	0		1	79	<1	110	2	89	6	86	20	82	8	93	<1	76	2	77	4	85
White shrimp	1982[a]	ND		88	93	ND		39	86	14	99	16	95	26	101	17	110	4	61	47	92
	1983	ND		78	93	ND		20	102	13	96	19	100	14	111	6	112	2	86	37	95
	1984	ND		60	98	ND		15	99	8	99	39	106	24	106	11	126	10	109	32	100
	1985	ND		62	99	ND		21	110	23	91	17	106	22	104	6	120	1	105	33	101
	1986	14	105	45	95	ND		60	98	15	96	13	101	19	98	3	108	5	57	34	97
	1987	23	101	37	97	22	92	16	97	42	87	10	94	15	99	2	105	2	76	25	95
	1988	39	107	21	91	8	95	16	98	41	93	16	91	12	95	3	102	<1	79	20	95

[a]Values include May-Dec only.
[b]1986 values include Sabine Lake; 1987 values include East Matagorda.
[c]Values include Apr-Dec only.

Table 5. Annual mean catch rates (No./h) and mean total lengths (mm) of select finfishes and shellfishes caught with 6.1-m trawls in the Texas Territorial Sea during 1985-1988. 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	23	142
	1986	44[b]	134	45	126	98	136	43	130	9	132	49	132
	1987	9	114	110	119	65	131	28	134	<1	157	44	124
	1988	79	122	78	118	89	132	23	130	2	128	55	125
Black drum	1985[a]	ND		0		0		<1	825	0		<1	825
	1986	0[b]		0		<1	900	0		0		<1	900
	1987	<1	851	<1	760	<1	680	<1	680	0		<1	741
	1988	0		<1	752	0		0		0		<1	752
Gafftopsail catfish	1985[a]	ND		<1	165	<1	156	<1	136	0		<1	160
	1986	13[b]	121	<1	118	<1	115	<1	176	0		3	121
	1987	3	116	0		<1	158	<1	134	0		<1	118
	1988	2	118	<1	169	<1	168	0		<1	180	<1	126
Gulf menhaden	1985[a]	ND		2	150	1	159	1	151	0		1	152
	1986	4[b]	125	2	147	<1	180	<1	197	0		1	135
	1987	3	132	5	135	1	146	<1	159	0		2	136
	1988	5	124	10	57	6	107	<1	122	0		4	87
Hardhead catfish	1985[a]	ND		2	157	3	143	8	157	<1	256	4	154
	1986	4[b]	164	5	163	2	156	8	156	<1	211	4	160
	1987	3	131	6	148	4	145	4	161	<1	180	4	148
	1988	8	187	2	155	11	122	4	172	<1	206	5	152
King mackerel	1985[a]	ND		<1	173	0		<1	124	0		<1	142
	1986	0[b]		<1	159	0		0		0		<1	159
	1987	0		0		<1	120	<1	200	0		<1	131
	1988	0		0		0		0		0		0	
Pinfish	1985[a]	ND		<1	124	3	109	4	110	1	135	2	112
	1986	<1[b]	98	2	104	2	105	4	107	2	103	2	105
	1987	0		<1	100	3	111	3	115	<1	112	1	113
	1988	<1	93	<1	112	8	105	8	110	3	105	4	107

Table 5. (Cont'd.)

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
Red drum	1985[a]	ND		0		0		<1	84	0		<1	84
	1986	0[b]		0		0		0		0		0	
	1987	0		0		<1	948	0		<1	42	<1	520
	1988	0		0		0		0		0		0	
Red snapper	1985[a]	ND		0		0		2	85	7	89	2	88
	1986	0[b]		0		<1	152	1	95	<1	103	<1	100
	1987	0		<1	68	<1	88	1	122	<1	83	<1	107
	1988	0		0		0		1	111	1	106	<1	109
Sand seatrout	1985[a]	ND		10	141	6	168	3	140	<1	221	5	150
	1986	5[b]	164	4	141	3	151	1	174	0		3	154
	1987	7	131	6	133	5	134	2	162	<1	108	4	135
	1988	3	148	5	114	11	129	1	184	<1	137	4	130
Sheepshead	1985[a]	ND		0		0		0		0		0	
	1986	0[b]		0		0		0		0		0	
	1987	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Southern flounder	1985[a]	ND		0		<1	280	<1	137	0		<1	199
	1986	1[b]	162	<1	255	<1	184	<1	311	0		<1	173
	1987	<1	226	<1	197	0		<1	179	<1	168	<1	191
	1988	<1	204	0		<1	214	<1	225	0		<1	214
Spanish mackerel	1985[a]	ND		0		0		0		0		0	
	1986	<1[b]	200	0		0		0		0		<1	200
	1987	<1	93	<1	183	0		<1	258	0		<1	203
	1988	<1	166	<1	178	<1	182	<1	110	<1	200	<1	180
Spot	1985[a]	ND		3	132	20	130	21	141	1	142	11	136
	1986	3[b]	124	8	128	7	124	25	123	2	125	9	124
	1987	5	140	9	126	4	125	22	129	<1	170	8	129
	1988	4	115	7	116	23	128	23	122	3	110	12	123

Table 5. (Cont'd.)

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
Spotted seatrout	1985[a]	ND		0		0		<1	140	0		<1	140
	1986	<1[b]	163	<1	172	<1	165	0		0		<1	165
	1987	<1	178	0		0		0		0		<1	178
	1988	0		<1	65	<1	110	0		0		<1	88
Striped mullet	1985[a]	ND		0		0		0		0		0	
	1986	0[b]		0		0		0		0		0	
	1987	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Other finfishes	1985[a]	ND		108	109	111	106	170	106	113	97	125	105
	1986	85[b]	112	139	111	101	114	210	115	58	106	119	113
	1987	127	89	152	98	146	111	165	106	79	95	135	101
	1988	52	102	170	97	230	106	232	101	43	99	148	102
Total finfishes	1985[a]	ND		148	119	188	118	227	114	130	101	174	114
	1986	159[b]	122	207	118	215	123	292	119	72	110	190	120
	1987	158	98	289	111	229	118	226	114	80	96	199	110
	1988	153	120	273	104	379	114	291	106	52	103	234	110
SHELLFISHES													
Blue crab	1985[a]	ND		<1	105	1	134	1	127	<1	144	<1	127
	1986	4[b]	96	6	105	1	141	1	145	1	123	3	110
	1987	3	96	1	112	2	105	<1	142	<1	140	1	106
	1988	2	85	<1	104	1	113	1	128	<1	160	1	105
Brown shrimp	1985[a]	ND		7	103	7	125	47	109	18	106	20	109
	1986	10[b]	107	13	99	6	114	10	105	6	110	9	105
	1987	7	104	24	104	9	108	14	106	1	118	11	106
	1988	15	102	5	109	24	103	28	106	<1	116	15	105
Pink shrimp	1985[a]	ND		<1	120	<1	130	1	119	1	108	1	16
	1986	0[b]		<1	124	2	110	4	105	3	118	2	111
	1987	0		0		1	114	5	102	1	124	1	108
	1988	<1	87	0		1	108	7	103	1	125	2	106

Table 5. (Cont'd.)

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
White shrimp	1985[a]	ND		53	110	26	124	11	126	1	105	24	115
	1986	41[b]	101	53	101	15	120	8	124	2	137	24	105
	1987	26	105	14	109	16	112	8	119	1	121	13	110
	1988	14	105	17	100	19	110	9	116	<1	133	12	107

[a]Values include Feb-Dec only off Port Aransas and Aug-Dec only off all other areas.
[b]Values 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 1984-1988. Blank indicates no measurement taken; ND = no data.

Size Class	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
Spat	1984	ND		491		ND		ND		ND		ND		ND		ND		ND		491	
	1985	ND		891		ND		ND		ND		ND		ND		ND		ND		891	
	1986	26		1010		2186		764		499		551		107		ND		1135		745	
	1987	232		1054		1609		654		66		4269		167		ND		866		1144	
	1988	225		1440		907		941		439		1769		61		ND		78		959	
Small	1984	ND		1705	47	ND		ND		ND		ND		ND		ND		ND		1705	47
	1985	ND		2096	54	ND		ND		ND		ND		ND		ND		ND		2096	54
	1986	120	61	1316	54	944	53	382	51	565	58	1273	51	323	48	ND		148	49	791	53
	1987	334	56	1070	51	1928	46	555	51	240	55	2499	50	503	51	ND		22	38	950	50
	1988	995	56	1500	53	829	49	581	52	235	42	2184	52	407	59	ND		28	42	1033	52
Market	1984	ND		447	91	ND		ND		ND		ND		ND		ND		ND		447	91
	1985	ND		674	88	ND		ND		ND		ND		ND		ND		ND		674	88
	1986	190	97	617	88	485	93	212	92	444	92	191	86	116	98	ND		27	86	353	90
	1987	282	95	370	91	228	90	167	91	258	93	411	86	117	94	ND		3	85	270	91
	1988	519	94	397	89	94	86	201	91	23	89	401	87	145	89	ND		16	95	274	89

[a]Spat (5-25 mm), small (26-75 mm), market (≥76 mm).

Table 7. 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 non-reef stations in Texas bay systems during 1984-1988. Blank indicates no measurement taken; ND = no data.

Size Class	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
Spat	1984	ND		56		ND		ND		ND		ND		ND		ND		ND		56	
	1985	ND		20		ND		ND		ND		ND		ND		ND		ND		20	
	1986	11		50		403		324		9		95		18		0		3		106	
	1987	31		94		188		244		13		300		3		0		19		116	
	1988	28		2		168		112		34		111		9		0		2		48	
Small	1984	ND		62	53	ND		ND		ND		ND		ND		ND		ND		62	53
	1985	ND		141	47	ND		ND		ND		ND		ND		ND		ND		141	47
	1986	51	50	73	48	220	53	79	46	43	57	454	52	43	43	0		0		103	50
	1987	46	55	32	50	181	52	94	42	9	59	211	54	20	60	0		0		63	50
	1988	72	57	46	54	182	53	57	47	3	40	182	55	25	58	0		0		60	53
Market	1984	ND		15	97	ND		ND		ND		ND		ND		ND		ND		15	97
	1985	ND		35	91	ND		ND		ND		ND		ND		ND		ND		35	91
	1986	30	97	25	96	120	96	41	93	23	89	110	90	5	98	0		0		36	93
	1987	26	90	29	101	68	93	34	95	13	93	89	87	2	87	0		0		30	94
	1988	65	94	6	92	74	92	12	88	1	87	56	88	12	88	0		0		21	91

[a]Spat (5-25 mm), small (26-75 mm), market (≥76 mm).

Table 8. Annual mean catch rates (No./ha) and mean total lengths (mm) of select finfishes and shellfishes caught with 60.9-m beach seines in five Texas gulf shoreline areas during 1987-1988. Blank indicates no measurement taken.

Species	Year	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
FINFISHES													
Atlantic croaker	1987[a]	2	267	<1	306	<1	239	0		0		1	267
	1988	1	264	1	252	<1	260	0		<1	292	<1	262
Black drum	1987[a]	1	344	<1	215	1	306	<1	249	<1	236	<1	302
	1988	1	237	1	229	<1	284	<1	302	0		<1	252
Gafftopsail	1987[a]	0		0		0		0				0	
	1988	0		0		0		0		0		0	
Gulf menhaden	1987[a]	0		0		0		0		0		0	
	1988	5	158	1	166	<1	197	<1	197	<1	226	<1	159
Hardhead catfish	1987[a]	1	368	0		<1	340	<1	380	0		<1	367
	1988	10	330	1	325	1	315	<1	332	0		3	328
King mackerel	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Pinfish	1987[a]	0		0		0		0		0		0	
	1988	0		0		<1	155	<1	185	0		<1	168
Red drum	1987[a]	0		0		1	353	<1	340	<1	345	<1	350
	1988	<1	460	<1	389	<1	509	<1	378	<1	521	<1	465
Red snapper	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Sand seatrout	1987[a]	1	328	0		0		0		0		<1	328
	1988	<1	322	<1	276	<1	298	0		<1	286	<1	297
Sheepshead	1987[a]	0		0		0		0		0		0	
	1988	<1	416	<1	380	<1	302	<1	288	<1	420	<1	361
Southern flounder	1987[a]	<1	272	1	250	0		<1	313	0		<1	265
	1988	<1	368	1	256	<1	203	<1	315	<1	434	<1	287
Spanish mackerel	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		<1	392	<1	392

Table 8. (Cont'd.)

Species	Year	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Spot	1987[a]	1	244	1	248	<1	248	1	214	0		1	235
	1988	2	245	1	236	<1	235	1	245	<1	242	1	243
Spotted seatrout	1987[a]	<1	408	<1	429	1	411	<1	511	0		<1	431
	1988	2	410	2	430	1	412	<1	427	<1	489	1	419
Striped mullet	1987[a]	8	393	7	358	1	371	6	353	12	350	6	368
	1988	12	363	21	345	7	356	12	353	5	349	11	354
Other finfishes	1987[a]	1	211	1	219	2	178	1	178	<1	177	1	189
	1988	1	231	2	230	19	59	15	94	3	331	10	86
Total finfishes	1987[a]	15	327	10	322	6	300	10	318	13	335	10	321
	1988	34	324	30	326	29	170	28	215	10	345	28	251
SHELLFISHES													
Blue crab	1987[a]	<1	118	<1	159	0		0		0		<1	130
	1988	1	117	<1	143	<1	138	<1	127	<1	126	<1	125
Brown shrimp	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Pink shrimp	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
White shrimp	1987[a]	0		0		<1	157	0		0		<1	157
	1988	0		<1	163	<1	135	0		0		<1	154

[a]Values include Oct-Dec only.

Table 9. Annual mean catch rates (No./ha) and mean total lengths (mm) of select finfishes and shellfishes caught with 18.3-m bag seines in five Texas gulf shoreline areas during 1987[a]-1988. Blank indicates no measurement taken.

Species	Year	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
FINFISHES													
Atlantic croaker	1987[a]	0		2	42	0		0		0		<1	42
	1988	730	28	2	43	1	50	3	27	0		169	28
Black drum	1987[a]	0		0		0		0		0		0	
	1988	1	111	<1	104	<1	168	0		<1	182	<1	132
Gafftopsail	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Gulf menhaden	1987[a]	0		0		2	48	0		0		1	48
	1988	4	94	13	87	3	85	16	37	<1	75	7	66
Hardhead catfish	1987[a]	86	77	0		0		0		0		20	77
	1988	7	66	8	108	1	101	0		0		3	85
King mackerel	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		1	67	<1	67
Pinfish	1987[a]	0		0		1	85	0		2	122	<1	101
	1988	0		<1	100	<1	122	0		60	105	7	105
Red drum	1987[a]	0		0		0		0		0		0	
	1988	0		<1	66	0		0		0		<1	66
Red snapper	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Sand seatrout	1987[a]	0		0		0		0		0		0	
	1988	0		7	48	<1	61	0		0		1	50
Sheepshead	1987[a]	0		0		0		0		0		0	
	1988	0		0		<1	40	0		0		<1	40
Southern flounder	1987[a]	0		0		0		0		0		0	
	1988	11	57	7	80	1	83	5	47	0		5	63
Spanish mackerel	1987[a]	26	50	0		0		0		0		6	50
	1988	0		<1	59	1	53	0		1	110	1	64

Table 9. (Cont'd.)

Species	Year	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Spot	1987[a]	0		0		0		0		0		0	
	1988	0		1	80	<1	149	0		31	91	4	93
Spotted seatrout	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
Striped mullet	1987[a]	5	26	0		2	30	2	61	9	146	3	68
	1988	30	95	23	115	14	84	25	31	1	155	20	81
Other finfishes	1987[a]	110	63	327	60	337	81	502	45	1678	78	461	70
	1988	688	67	3607	88	1470	61	1012	49	1948	85	1560	72
Total finfishes	1987[a]	226	66	329	60	343	80	505	45	1689	80	491	70
	1988	1471	48	3668	96	1494	62	1061	48	2043	83	1776	70
SHELLFISHES													
Blue crab	1987[a]	0		0		1	14	0		4	24	1	20
	1988	26	87	1	25	2	83	<1	27	0		7	85
Brown shrimp	1987[a]	0		0		0		0		0		0	
	1988	4	52	0		2	76	0		<1	46	2	60
Pink shrimp	1987[a]	0		0		0		0		0		0	
	1988	0		0		0		0		0		0	
White shrimp	1987[a]	7	78	11	71	43	69	1	72	0		18	70
	1988	23	64	3	77	1	61	<1	45	<1	69	6	65

[a]Values include Oct-Dec only.

Figure 1. Sabine Lake System.

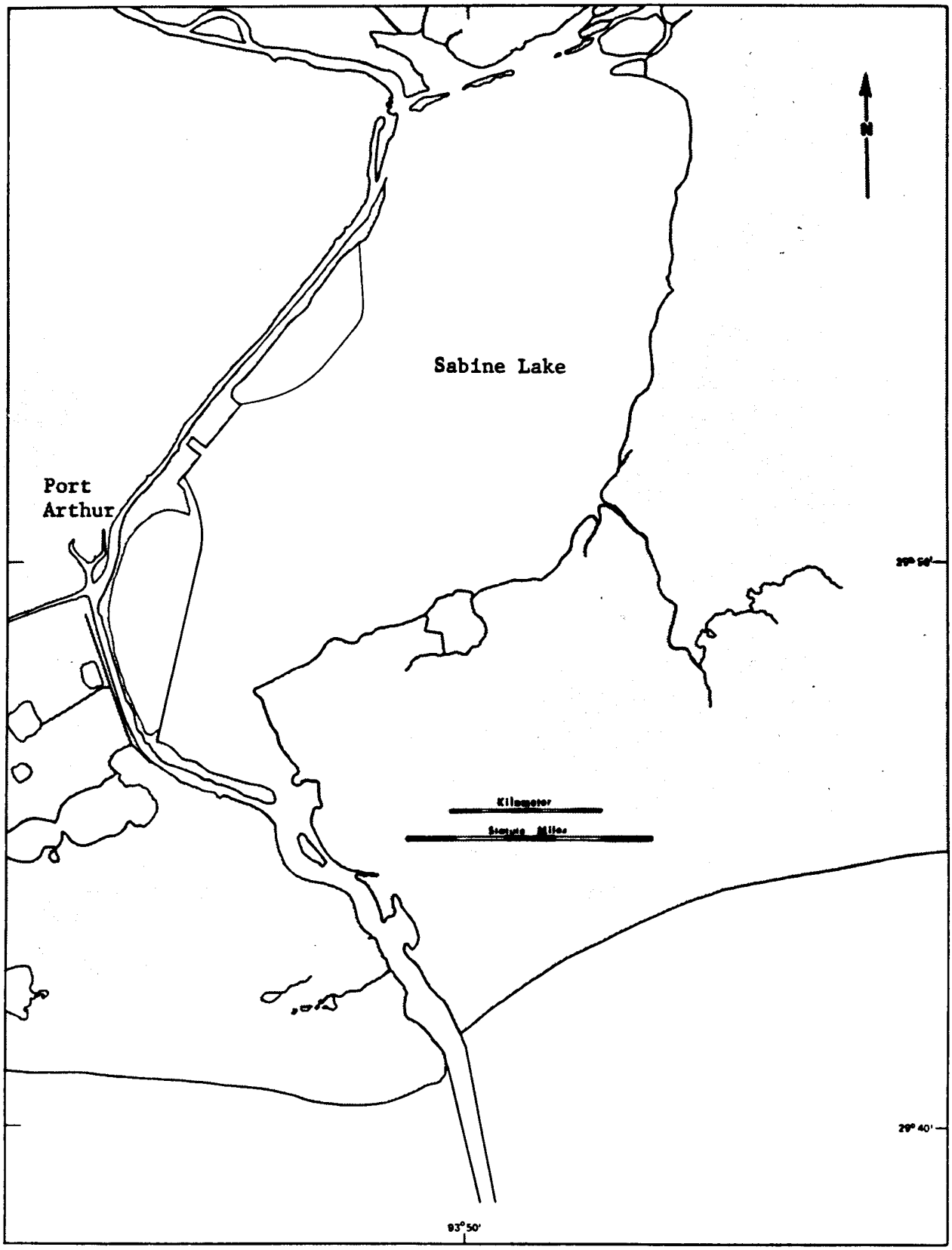
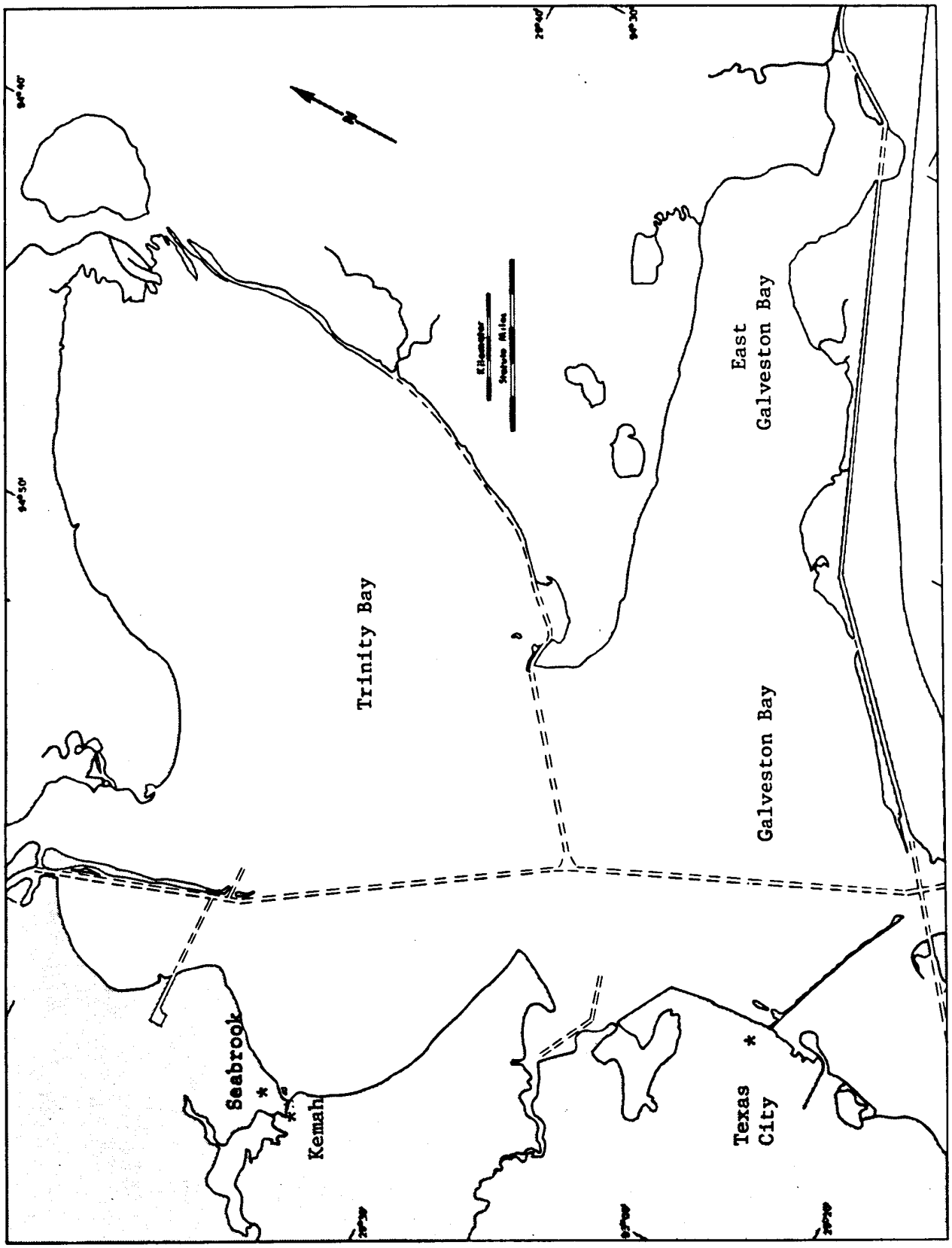

Sabine Lake
Port
Arthur
N
29° 50'
29° 40'
93° 50'

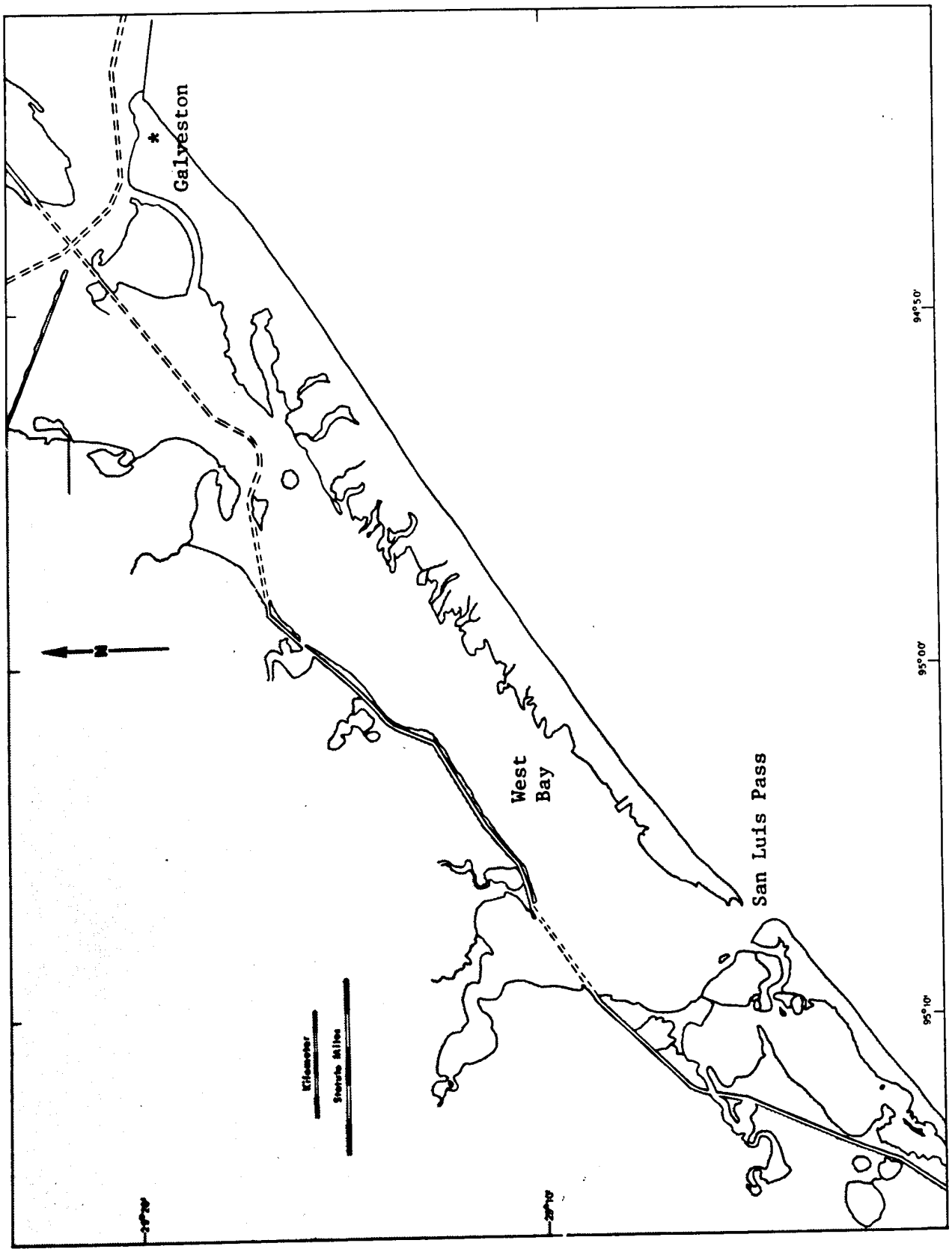
Figure 2. Galveston Bay System.

(A) Trinity, upper Galveston and East Bays

(B) West Bay


Trinity Bay
East
Galveston Bay
Galveston Bay
Seabrook
Kemah
Texas
City

(A)

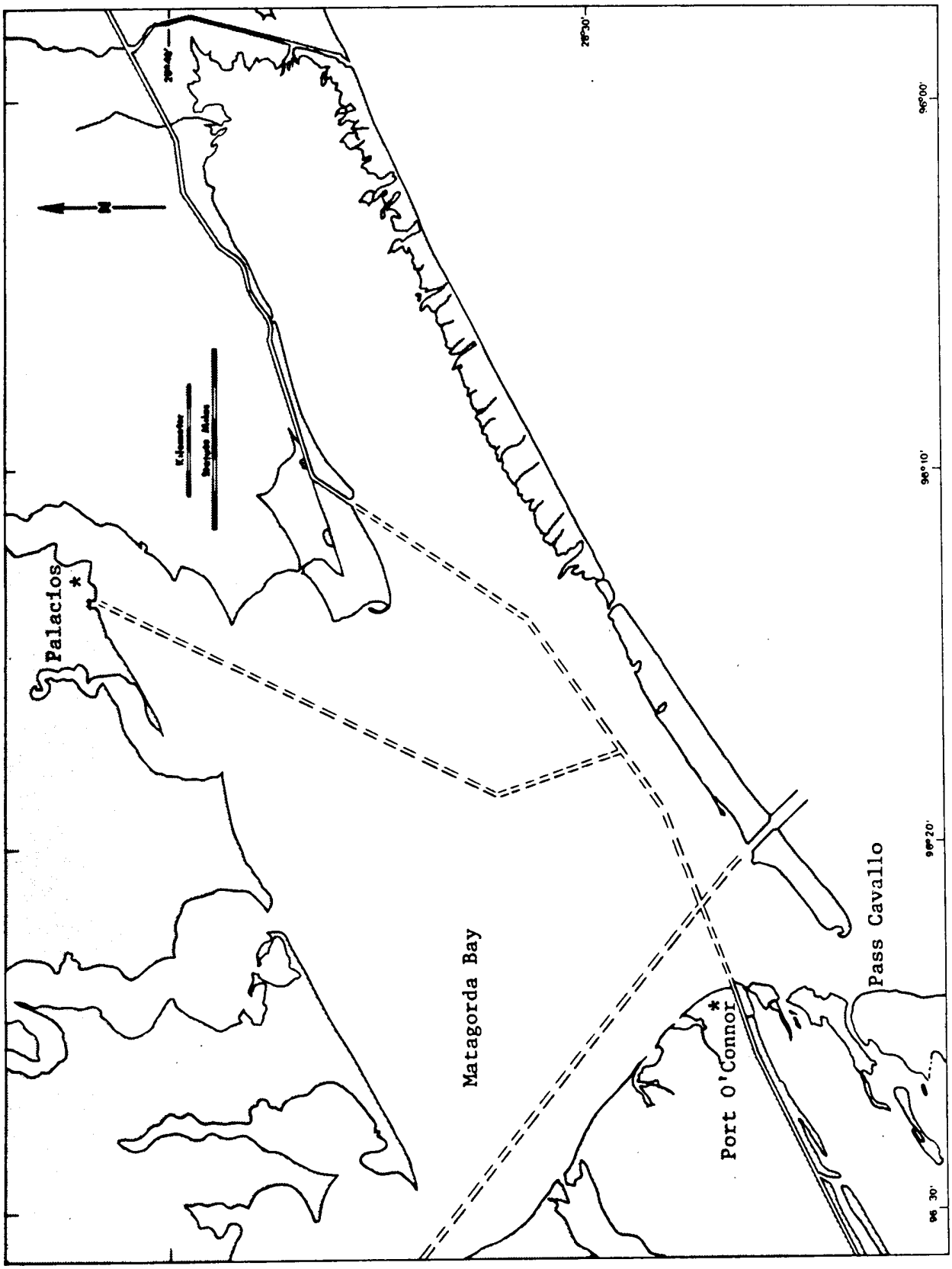


(B)

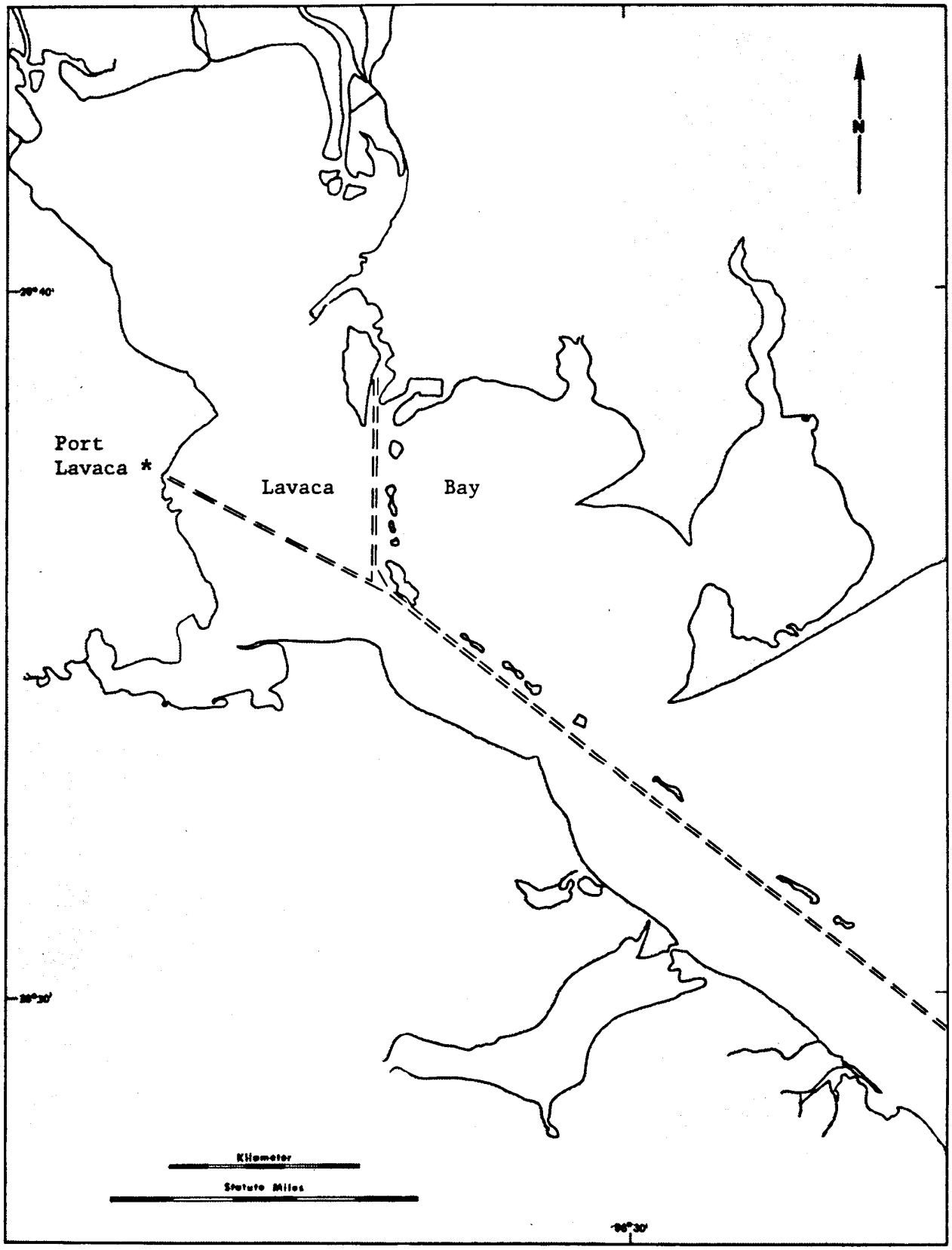
Figure 3. Matagorda Bay System.

(A) Matagorda Bay

(B) Lavaca Bay


Palacios
Matagorda Bay
Port O'Connor
Pass Cavallo
96°00'
96°10'
96°20'
96 30'
28°30'

(A)



(B)

Figure 4. San Antonio Bay System.

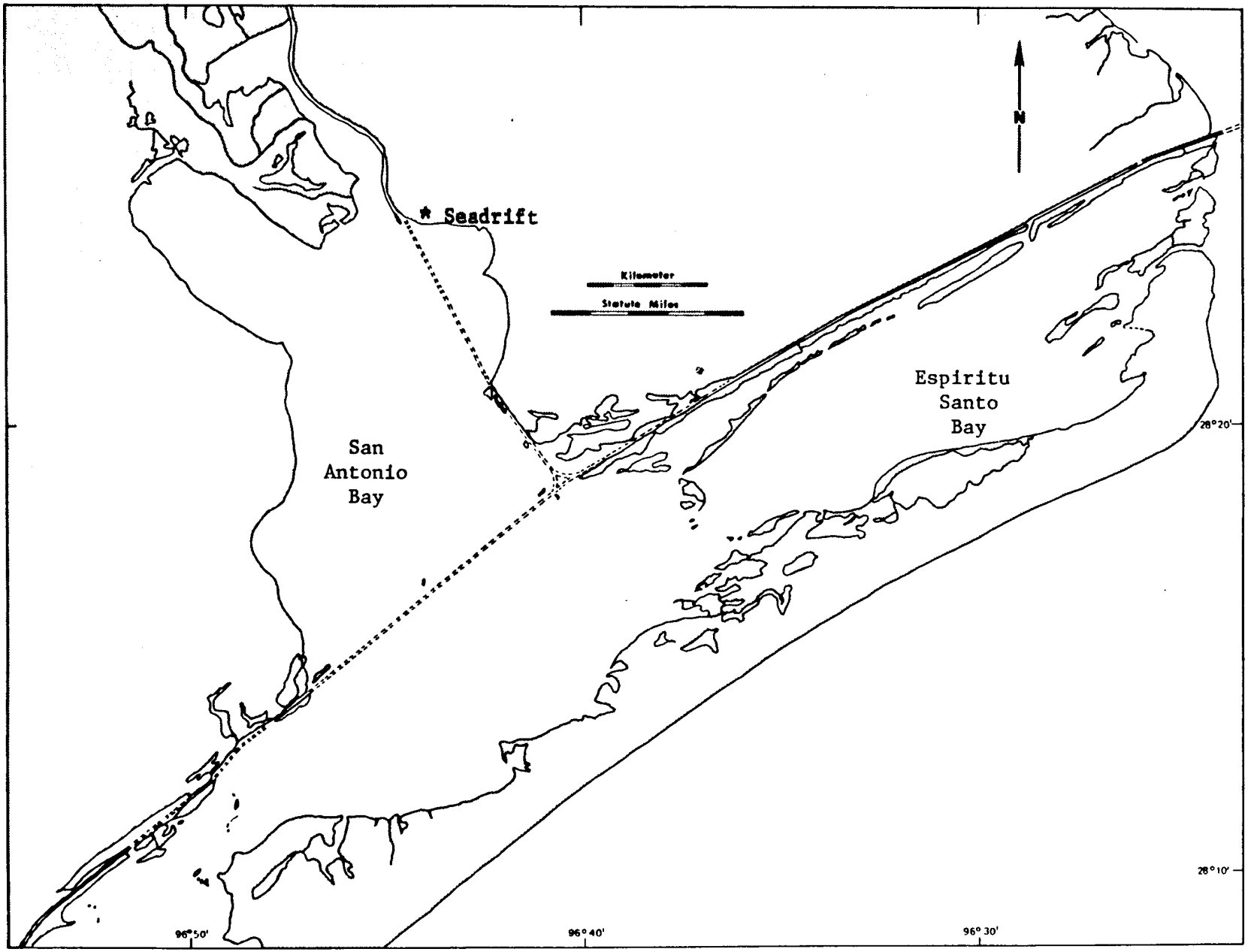

N
Seadrift
Kilometer
Statute Miles
San
Antonio
Bay
Espiritu
Santo
Bay
28°20'
28°10'
96°50'
96°40'
96°30'

Figure 5. Aransas Bay System.

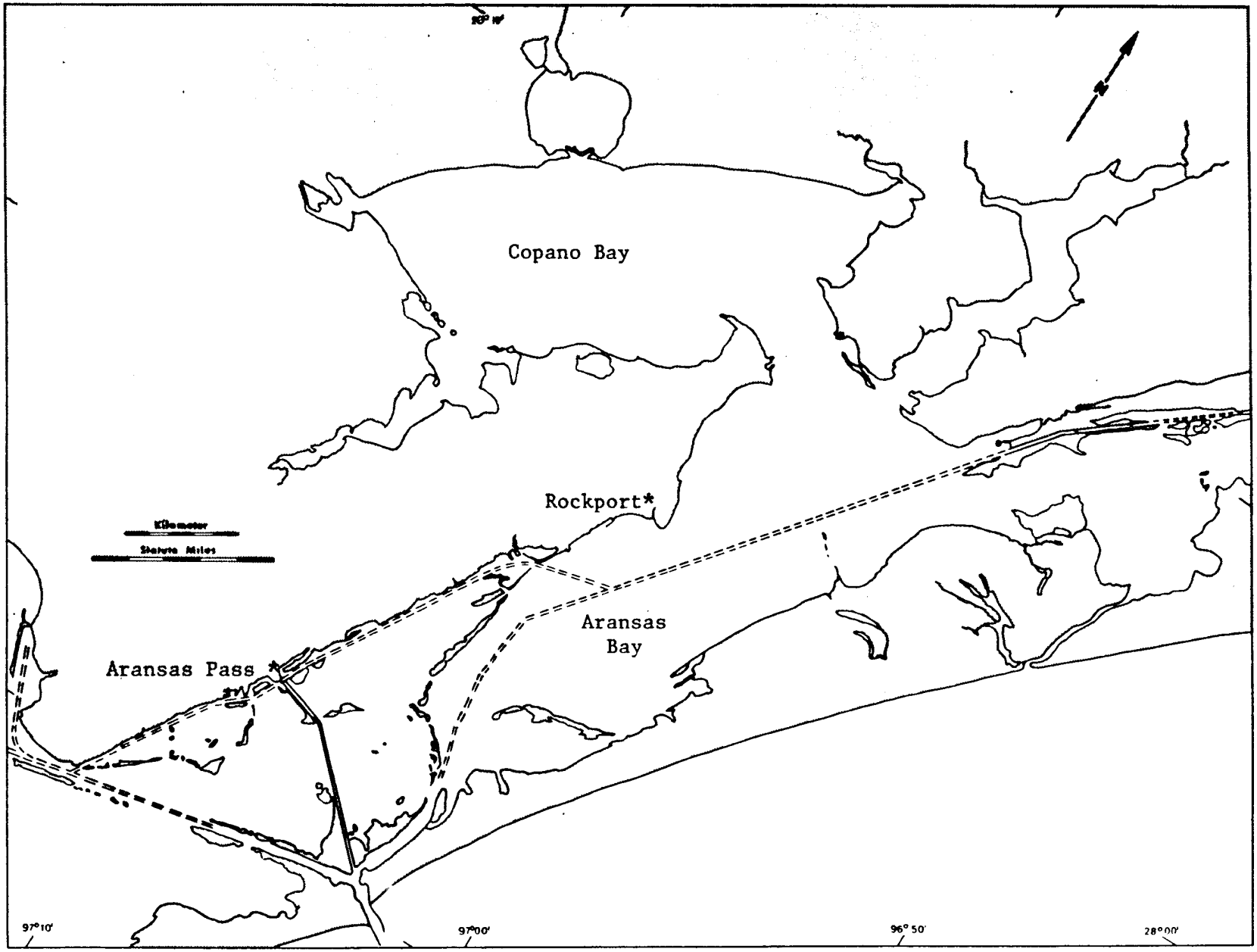

Copano Bay
Rockport*
Aransas Bay
Aransas Pass *
97°10'
97°00'
96°50'
28°00'

Figure 6. Corpus Christi Bay System.

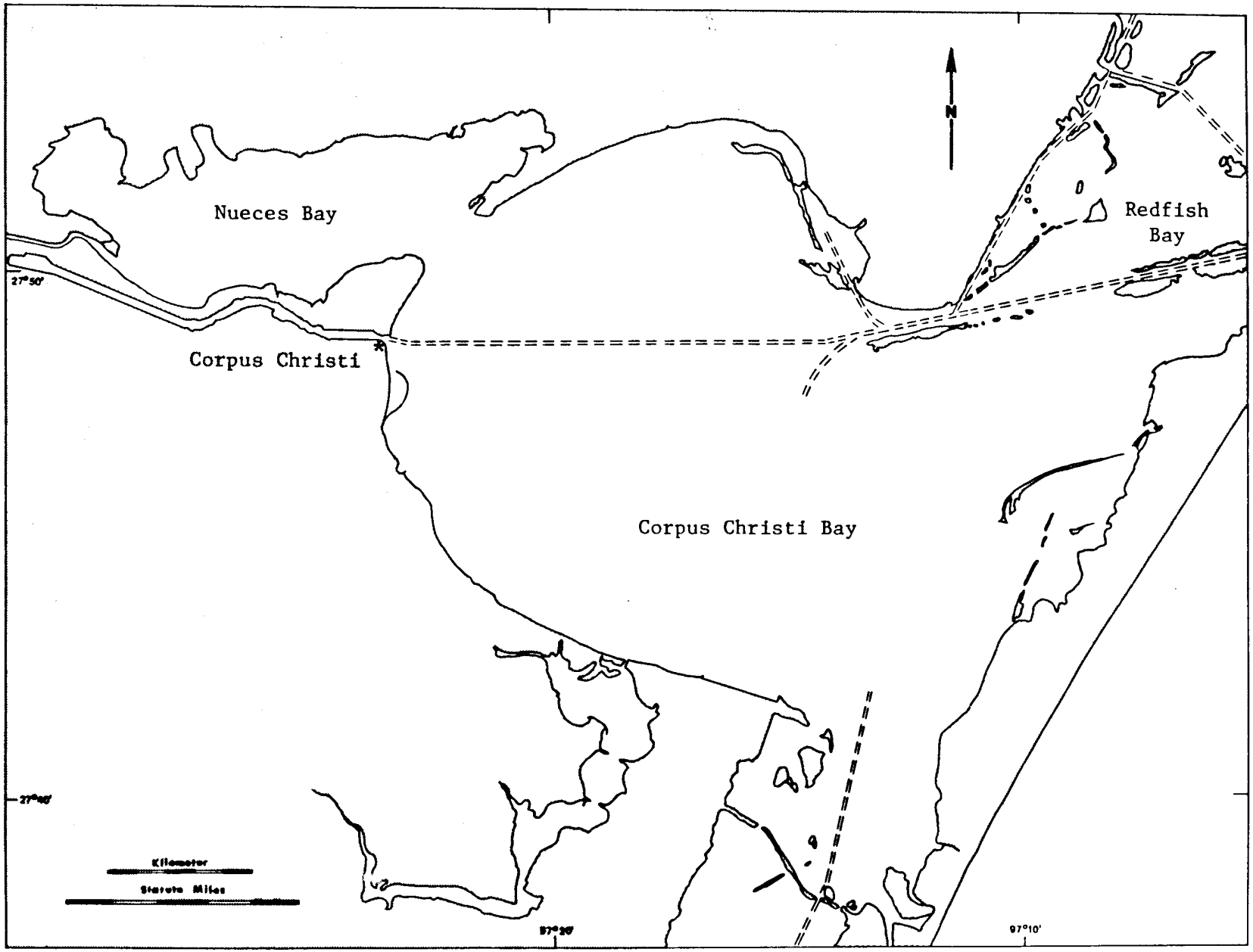

N
Nueces Bay
Redfish Bay
Corpus Christi
Corpus Christi Bay
27°50'
97°20'
97°10'
Kilometer
Statute Miles

Figure 7. Upper Laguna Madre System.

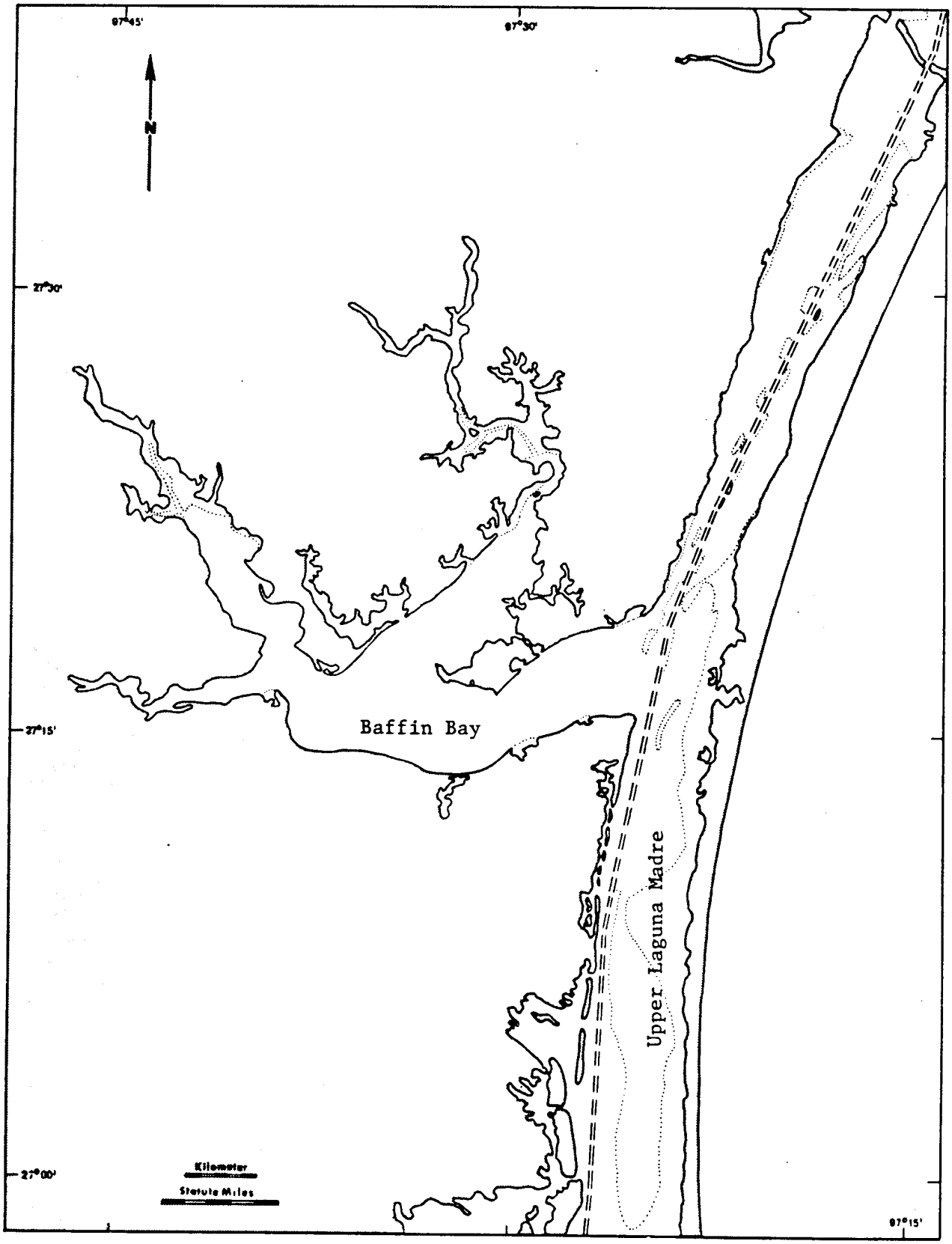
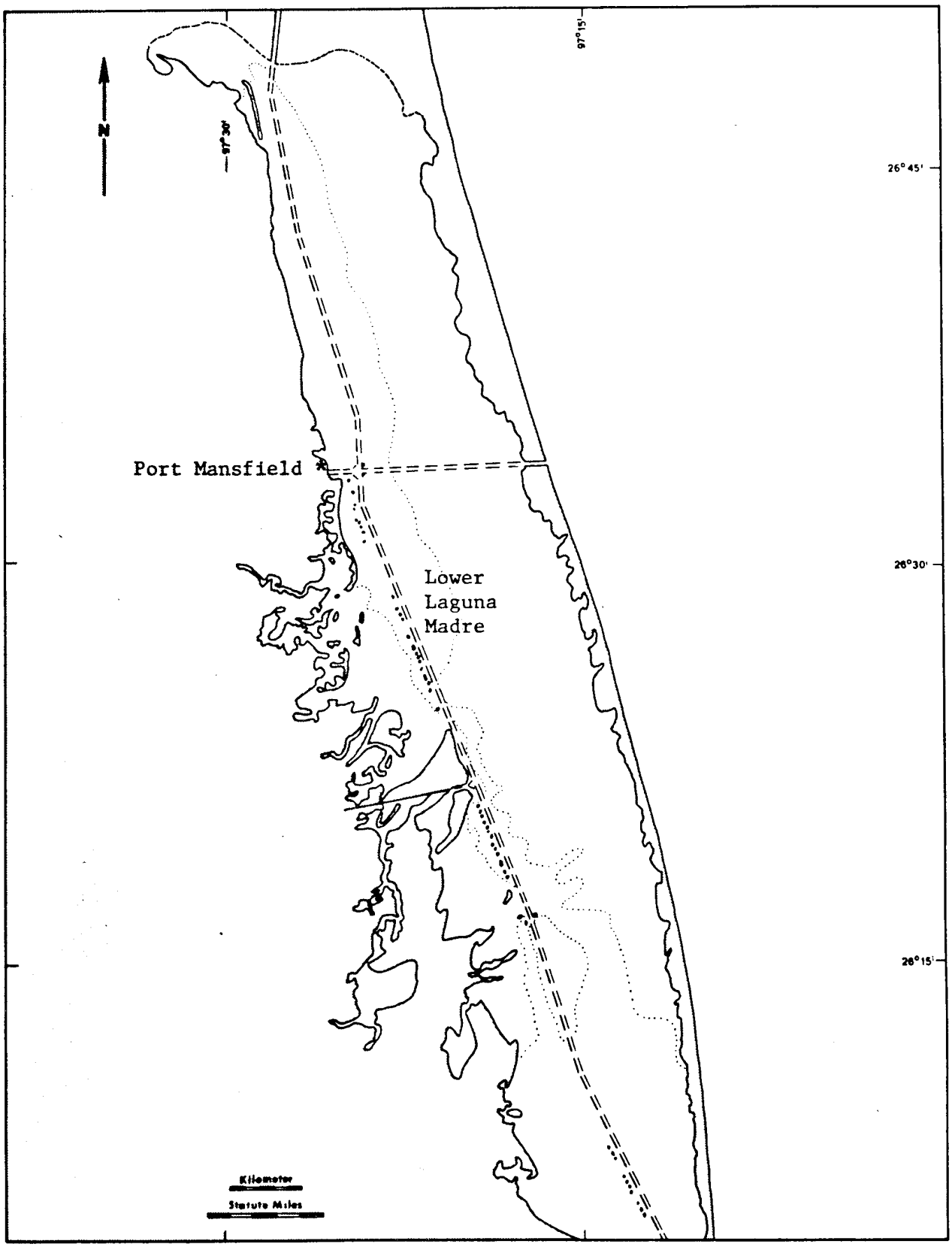

97°45'
97°30'
N
27°30'
27°15'
27°00'
Baffin Bay
Upper Laguna Madre
Kilometer
Statute Miles
97°15'

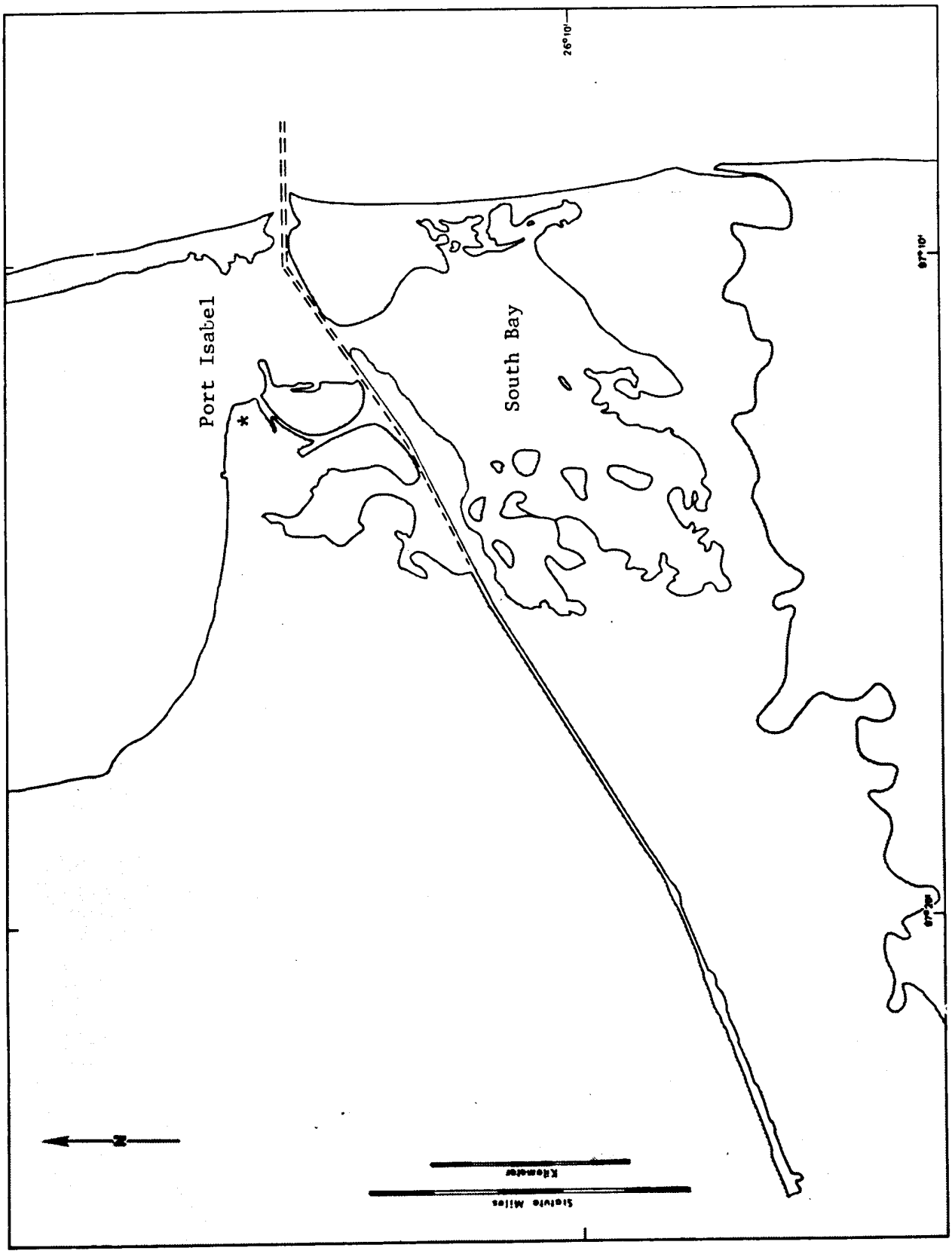
Figure 8. Lower Laguna Madre System.

(A) Lower Laguna Madre

(B) South Bay


N
97°30'
97°15'
26°45'
26°30'
26°15'
Port Mansfield
Lower
Laguna
Madre
Kilometer
Statute Miles

(A)



(B)

Figure 9. East Matagorda Bay System.

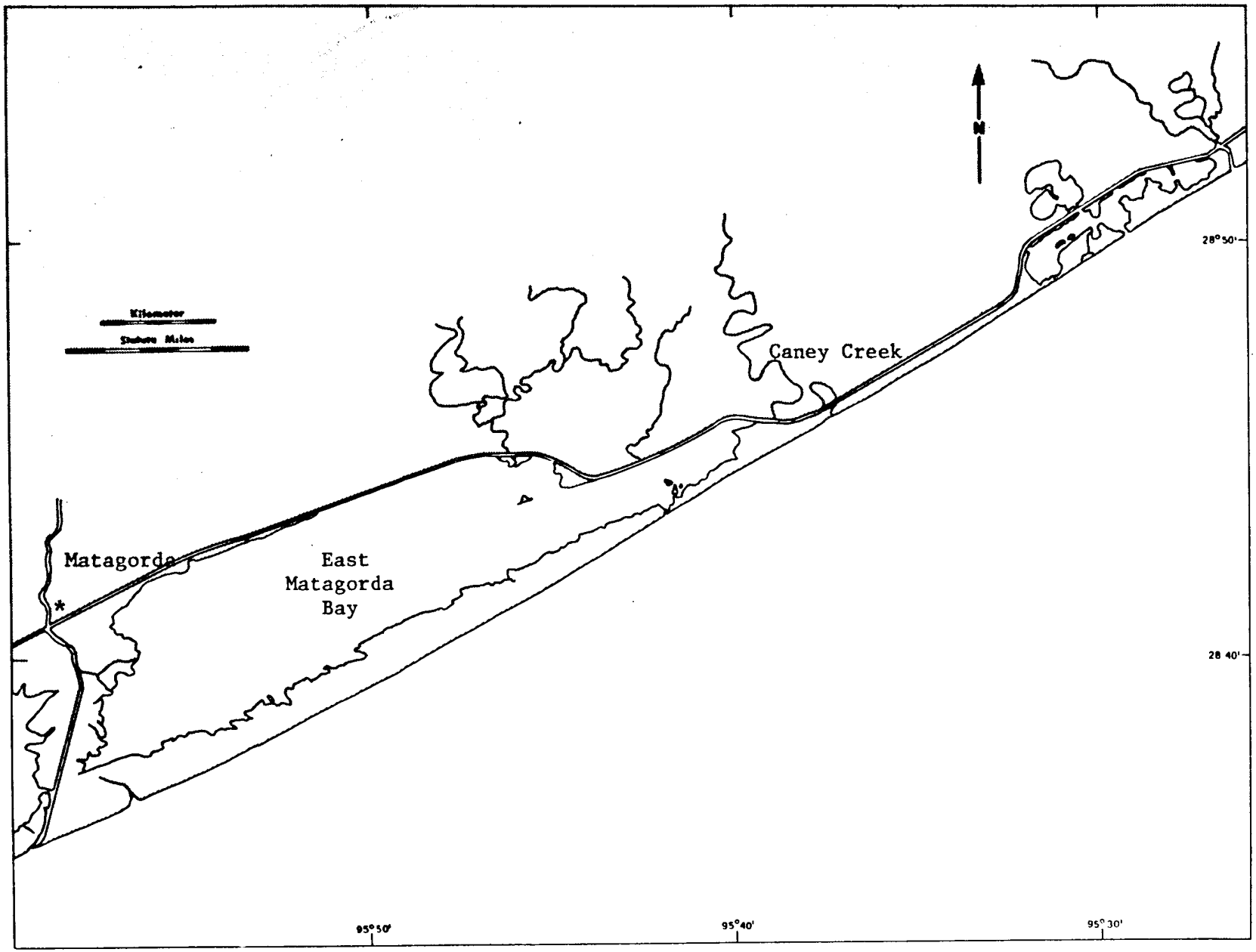
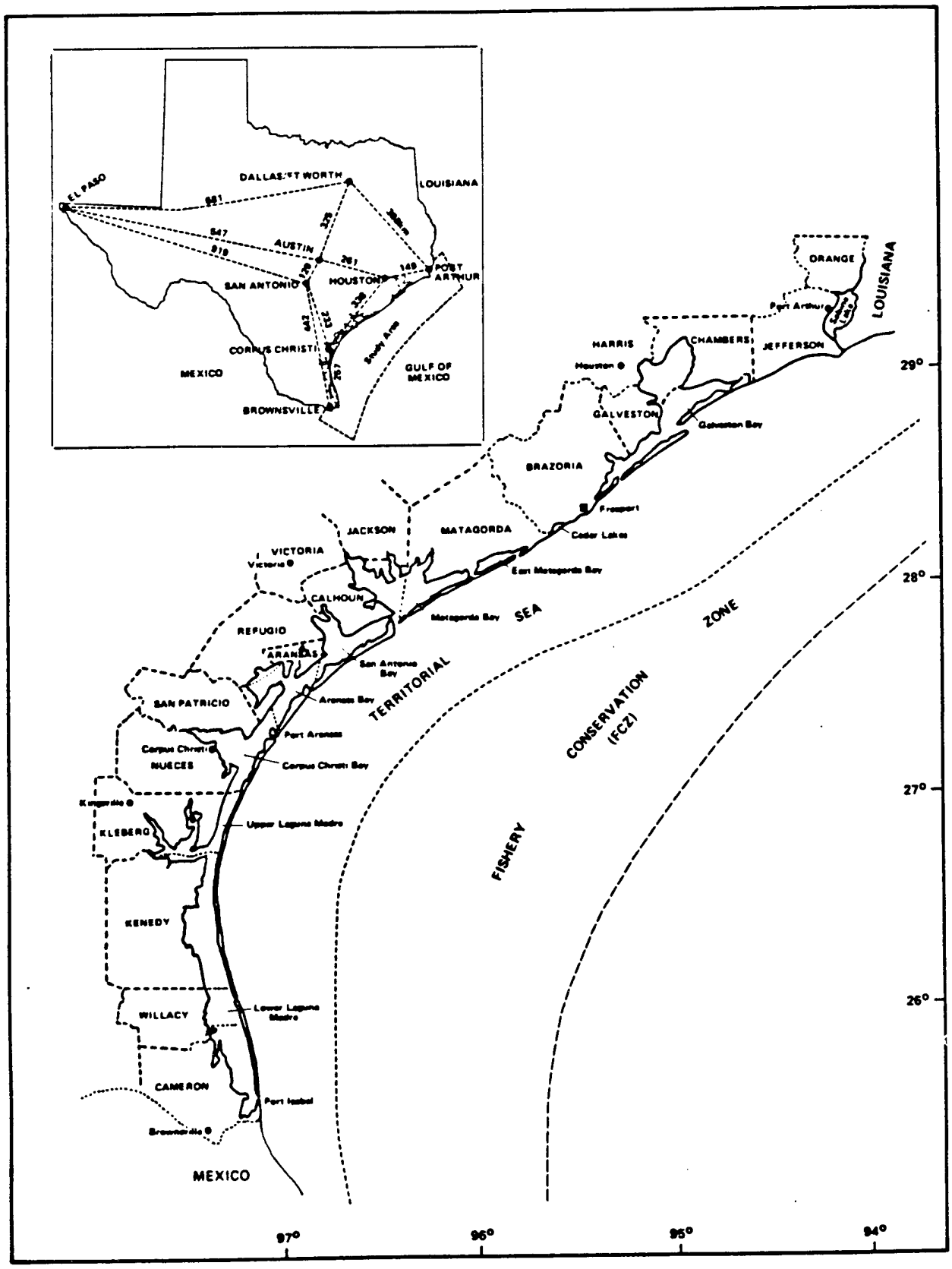

N
Caney Creek
Matagorda
East
Matagorda
Bay
28°50'
28 40'
95°50'
95°40'
95°30'

Figure 10. Texas gulf shoreline and Texas Territorial Sea (TTS)


EL PASO
DALLAS-FT WORTH
LOUISIANA
AUSTIN
SAN ANTONIO
HOUSTON
PORT ARTHUR
CORPUS CHRISTI
MEXICO
GULF OF MEXICO
BROWNSVILLE
ORANGE
HARRIS
CHAMBERS
JEFFERSON
GALVESTON
BRAZORIA
MATAGORDA
JACKSON
VICTORIA
CALHOUN
REFUGIO
ARANSAS
SAN PATRICIO
NUECES
KLEBERG
KENEDY
WILLACY
CAMERON
TERRITORIAL SEA
CONSERVATION ZONE (FCZ)
FISHERY
29°
28°
27°
26°
97°
96°
95°
94°

APPENDICES

Appendix A. Monthly mean catch rates (No./h) and mean total lengths (mm) of selected finfishes and shellfishes caught by gear type, sampling period and bay system.

Table A.1. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Sabine Lake system during spring 1986-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1986	0.1	466	0.2	465	0.1	562	0.1	704
	1987	<.1	431	0.1	467	0.1	565	<.1	692
	1988	0.1	448	0.1	448	<.1	547	<.1	651
Spotted seatrout	1986	0.2	417	0.1	491	<.1	634	<.1	435
	1987	0.2	373	<.1	487	<.1	614	0.0	
	1988	0.2	368	<.1	468	<.1	608	<.1	378
Black drum	1986	<.1	301	0.1	343	0.1	398	<.1	448
	1987	<.1	271	<.1	304	<.1	390	<.1	469
	1988	<.1	246	<.1	311	<.1	413	<.1	506
Sheepshead	1986	0.0		<.1	246	<.1	359	<.1	418
	1987	0.0		0.0		<.1	364	0.0	
	1988	0.0		0.0		0.0		0.0	
Southern flounder	1986	<.1	293	<.1	258	<.1	325	<.1	416
	1987	<.1	246	<.1	312	<.1	447	<.1	409
	1988	<.1	274	<.1	278	<.1	345	<.1	421
Atlantic croaker	1986	0.1	254	<.1	281	<.1	310	0.0	
	1987	<.1	258	<.1	262	<.1	369	0.0	
	1988	0.1	259	<.1	260	0.0		<.1	227
Sand seatrout	1986	0.0		<.1	277	0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1986	<.1	376	<.1	430	0.1	507	<.1	556
	1987	<.1	411	<.1	485	<.1	497	<.1	546
	1988	0.0		<.1	478	<.1	549	<.1	549

Table A.1. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1986	<.1	249	<.1	366	0.0		0.0	
	1987	<.1	348	0.0		0.0		0.0	
	1988	<.1	251	<.1	338	0.0		<.1	239
Hardhead catfish	1986	0.6	311	0.2	341	<.1	258	<.1	355
	1987	0.1	317	<.1	367	<.1	335	<.1	307
	1988	0.2	321	0.1	337	<.1	303	<.1	285
Pinfish	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1986	<.1	250	0.0		0.0		0.0	
	1987	<.1	233	0.0		0.0		0.0	
	1988	<.1	232	0.0		0.0		0.0	
Striped mullet	1986	<.1	322	<.1	356	0.0		0.0	
	1987	<.1	312	0.0		0.0		0.0	
	1988	<.1	322	<.1	383	0.0		0.0	
Other finfishes	1986	1.8	439	0.6	546	0.2	816	0.1	1026
	1987	0.7	504	0.4	610	0.1	969	0.1	1028
	1988	0.6	508	0.5	482	0.1	843	0.1	1006
Total finfishes	1986	2.9	371	1.3	461	0.4	580	0.2	765
	1987	1.8	429	0.5	543	0.2	696	0.2	776
	1988	1.2	417	0.8	449	0.2	636	0.2	698
Blue crab	1986	0.1	138	0.1	147	<.1	159	<.1	179
	1987	0.1	145	0.1	153	<.1	158	<.1	150
	1988	0.1	147	0.1	154	0.1	162	<.1	155

Table A.2. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Galveston Bay system during spring 1976-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	<.1	310	0.0		0.0		0.0	
	1977	0.1	401	0.1	451	0.1	556	0.0	
	1978	<.1	246	0.1	468	0.0		0.0	
	1979	<.1	345	0.1	479	<.1	548	<.1	693
	1980	0.1	445	0.7	446	<.1	518	0.0	
	1981	0.2	386	0.1	451	<.1	518	<.1	611
	1982	0.3	434	0.4	458	0.1	537	0.1	604
	1983	0.3	424	0.4	463	0.2	547	<.1	624
	1984	0.3	428	0.4	462	0.2	559	0.1	606
	1985	0.1	440	0.3	486	0.2	595	0.1	674
	1986	0.2	387	0.6	474	0.3	537	0.2	637
	1987	0.2	424	0.2	464	0.1	594	<.1	608
	1988	0.2	442	0.4	470	0.1	580	<.1	616
Spotted seatrout	1976	0.0		<.1	530	0.0		0.0	
	1977	<.1	352	0.1	515	<.1	576	<.1	727
	1978	<.1	431	0.1	451	0.1	616	<.1	674
	1979	0.1	379	<.1	475	0.1	653	<.1	639
	1980	0.1	420	<.1	408	0.0		0.0	
	1981	0.2	435	0.1	537	<.1	596	0.0	
	1982	0.2	415	0.2	512	0.1	605	<.1	542
	1983	0.2	433	0.2	534	0.1	621	<.1	674
	1984	0.1	417	0.1	534	0.1	587	<.1	560
	1985	0.2	413	0.2	515	0.1	636	<.1	626
	1986	0.3	392	0.2	509	<.1	596	<.1	532
	1987	0.4	396	0.2	522	0.1	564	<.1	613
	1988	0.4	410	0.2	504	0.1	574	<.1	654

Table A.2. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black drum	1976	0.1	250	0.0		<.1	370	0.0	
	1977	0.1	223	<.1	571	0.2	397	0.1	522
	1978	0.1	371	<.1	473	0.1	461	0.1	461
	1979	0.2	239	<.1	265	<.1	385	0.1	452
	1980	0.2	225	<.1	430	0.1	370	<.1	415
	1981	0.2	244	0.1	329	0.4	512	0.1	445
	1982	0.2	240	0.1	375	0.1	403	0.1	479
	1983	0.2	239	0.3	324	0.2	379	0.1	459
	1984	0.1	256	0.2	344	0.3	379	0.1	451
	1985	0.1	231	0.2	299	0.1	404	0.1	492
	1986	<.1	255	0.2	312	0.1	405	0.2	477
	1987	<.1	246	0.2	307	0.1	404	0.1	493
	1988	<.1	260	0.2	306	0.1	389	0.1	476
Sheepshead	1976	0.0		0.0		0.0		0.0	
	1977	<.1	197	0.0		0.0		<.1	480
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		<.1	250	0.0		<.1	360
	1980	0.0		0.0		<.1	324	<.1	410
	1981	0.0		<.1	377	<.1	380	<.1	422
	1982	0.0		<.1	292	<.1	314	<.1	355
	1983	0.0		<.1	292	<.1	302	<.1	364
	1984	<.1	457	<.1	327	<.1	328	<.1	385
	1985	0.0		<.1	341	<.1	335	<.1	375
	1986	<.1	331	<.1	318	<.1	366	<.1	395
	1987	0.0		<.1	202	<.1	329	<.1	421
	1988	0.0		0.0		<.1	303	<.1	436

Table A.2. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		<.1	351	0.0	
	1978	<.1	205	<.1	293	0.0		0.0	
	1979	0.0		0.0		0.0		<.1	451
	1980	<.1	218	<.1	312	<.1	392	<.1	484
	1981	<.1	244	0.0		0.0		0.0	
	1982	<.1	371	<.1	315	<.1	338	<.1	388
	1983	<.1	356	<.1	316	<.1	363	<.1	418
	1984	<.1	358	<.1	298	<.1	348	<.1	371
	1985	<.1	350	<.1	310	<.1	364	<.1	373
	1986	<.1	241	<.1	293	<.1	362	<.1	378
	1987	<.1	360	<.1	298	<.1	356	<.1	401
	1988	0.0		<.1	319	<.1	367	<.1	414
Atlantic croaker	1976	0.1	247	0.1	375	0.0		0.0	
	1977	0.3	262	<.1	297	<.1	276	0.0	
	1978	0.1	247	0.0		0.0		0.0	
	1979	0.2	264	0.0		<.1	164	0.0	
	1980	0.1	268	0.0		0.0		0.0	
	1981	0.1	266	0.0		0.0		<.1	246
	1982	0.2	267	<.1	275	<.1	235	0.0	
	1983	0.2	268	<.1	288	<.1	230	<.1	305
	1984	0.1	264	<.1	268	<.1	291	<.1	231
	1985	0.2	270	<.1	306	<.1		<.1	300
	1986	0.3	268	<.1	312	<.1	264	0.0	
	1987	0.2	260	<.1	262	0.0		0.0	
	1988	0.1	227	<.1	266	<.1	225	0.0	

Table A.2. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	<.1	195	0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	225	<.1	218	<.1	206	0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	
	1983	<.1	326	0.0		<.1	278	0.0	
	1984	0.0		0.0		<.1	200	0.0	
	1985	<.1		0.0		0.0		<.1	356
	1986	0.0		0.0		0.0		<.1	209
	1987	0.0		<.1	536	0.0		0.0	
	1988	0.0		0.0		<.1	212	<.1	224
Gafftopsail catfish	1976	0.0		1.9	476	3.2	510	1.3	528
	1977	0.0		<.1	436	0.1	493	<.1	524
	1978	0.0		0.0		0.1	514	0.2	557
	1979	<.1	295	0.0		0.1	486	0.2	551
	1980	<.1	370	<.1	478	0.1	466	0.1	550
	1981	<.1	331	<.1	388	0.1	499	0.1	577
	1982	<.1	396	0.1	429	0.1	516	0.2	552
	1983	<.1	376	<.1	469	0.1	536	0.1	568
	1984	<.1	337	<.1	462	0.1	518	0.1	566
	1985	<.1	410	<.1	460	0.1	533	0.1	566
	1986	<.1	316	0.1	432	0.2	528	0.2	558
	1987	<.1	372	0.1	464	0.2	560	0.2	585
	1988	<.1	383	<.1	444	0.1	520	0.1	563

Table A.2. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf menhaden	1976	0.1	250	<.1	260	0.0		<.1	285
	1977	1.9	252	0.1	258	0.2	244	0.2	244
	1978	0.3	243	0.0		0.0		<.1	212
	1979	1.0	253	0.1	227	<.1	236	<.1	258
	1980	0.0		<.1	172	<.1	214	0.0	
	1981	0.4	262	<.1	194	0.0		<.1	245
	1982	0.3	256	<.1	241	<.1	240	<.1	246
	1983	0.7	253	<.1	246	<.1	251	<.1	232
	1984	0.4	253	0.1	271	<.1	244	<.1	250
	1985	0.7	253	<.1	266	<.1	247	<.1	260
	1986	1.2	251	0.1	240	<.1	250	<.1	246
	1987	1.1	248	0.1	216	<.1	275	<.1	238
	1988	0.1	247	<.1	244	<.1	217	<.1	251
Hardhead catfish	1976	1.9	307	0.7	354	<.1	310	0.5	313
	1977	1.6	319	0.5	368	<.1	406	<.1	333
	1978	1.6	328	0.4	374	<.1	313	0.0	
	1979	2.3	318	0.7	360	0.1	363	<.1	371
	1980	1.8	325	0.8	355	<.1	332	0.1	306
	1981	1.3	320	0.2	392	<.1	306	<.1	338
	1982	2.7	327	0.7	352	0.2	332	<.1	312
	1983	2.9	323	0.8	353	0.1	325	0.1	330
	1984	1.5	331	0.6	371	0.1	324	<.1	341
	1985	2.3	321	0.9	364	0.2	330	<.1	327
	1986	2.1	317	1.0	372	0.2	349	0.1	348
	1987	3.2	321	0.8	367	0.2	342	<.1	327
	1988	2.4	329	0.9	364	0.1	344	0.1	327

Table A.2. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	
	1983	<.1	210	0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1976	0.4	218	0.0		0.0		0.0	
	1977	0.1	227	0.0		0.0		0.0	
	1978	<.1	225	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	250	0.0		0.0		0.0	
	1982	<.1	244	0.0		0.0		0.0	
	1983	0.1	240	0.0		0.0		0.0	
	1984	<.1	247	0.0		0.0		0.0	
	1985	<.1	234	0.0		0.0		0.0	
	1986	<.1	233	0.0		0.0		0.0	
	1987	<.1	228	<.1	290	0.0		0.0	
	1988	<.1	228	0.0		0.0		0.0	

Table A.2. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1976	0.1	385	0.0		0.0		0.0	
	1977	0.1	316	<.1	361	0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.1	324	<.1	306	0.0		0.0	
	1980	0.1	343	0.0		0.0		0.0	
	1981	<.1	318	0.0		0.0		0.0	
	1982	0.2	338	<.1	397	0.0		0.0	
	1983	0.2	340	<.1	411	<.1	570	0.0	
	1984	0.2	337	<.1	420	0.0		0.0	
	1985	0.2	224	<.1	428	<.1	430	<.1	425
	1986	0.1	330	<.1	432	<.1	317	0.0	
	1987	0.1	345	<.1	420	<.1	302	0.0	
	1988	0.1	332	<.1	398	0.0		0.0	
Other finfishes	1976	<.1	340	0.1	460	0.1	735	<.1	1140
	1977	2.0	293	0.5	383	<.1	548	<.1	1005
	1978	1.2	274	0.3	372	<.1	402	0.1	1048
	1979	0.5	330	0.4	341	<.1	958	0.1	957
	1980	0.2	559	0.1	490	<.1	369	<.1	560
	1981	0.5	309	0.2	379	<.1	725	<.1	489
	1982	0.4	366	0.6	394	0.1	528	<.1	756
	1983	0.3	386	0.6	402	0.1	531	<.1	714
	1984	0.1	352	0.4	388	0.2	502	<.1	673
	1985	0.3	352	0.5	414	0.1	718	<.1	778
	1986	0.4	338	0.6	379	0.1	484	<.1	678
	1987	0.2	324	0.5	364	<.1	535	<.1	1118
	1988	0.1	380	0.4	382	0.1	445	<.1	910

Table A.2. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1976	2.9	290	2.9	441	3.4	512	1.9	478
	1977	6.2	287	1.5	385	0.6	382	0.4	382
	1978	3.4	298	0.9	392	0.3	498	0.4	680
	1979	4.6	306	1.4	352	0.4	486	0.4	593
	1980	2.5	347	1.8	409	0.4	392	0.3	473
	1981	2.9	320	0.9	403	0.6	512	0.2	475
	1982	4.5	335	2.2	404	0.8	453	0.5	522
	1983	5.2	332	2.4	401	0.9	445	0.4	482
	1984	2.8	348	1.9	398	1.0	433	0.5	493
	1985	4.0	318	2.3	419	0.8	499	0.5	545
	1986	4.8	322	2.9	404	0.9	471	0.7	509
	1987	5.4	338	2.0	391	0.8	481	0.4	538
	1988	3.4	346	2.2	404	0.6	443	0.5	497
Blue crab	1983	<.1	137	0.1	153	<.1	155	<.1	155
	1984	<.1	129	0.1	155	<.1	147	<.1	177
	1985	0.1	136	0.1	153	<.1	150	<.1	164
	1986	0.1	142	0.2	151	<.1	157	<.1	157
	1987	0.1	130	0.1	143	<.1	145	<.1	129
	1988	<.1	140	<.1	143	<.1	152	<.1	172

Table A.3. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the East Matagorda Bay system during spring 1976-1988. Blank indicates no measurement taken; ND = no data.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	ND		ND		ND		ND	
	1977	0.1	374	0.1	462	0.0		0.0	
	1978	0.2	400	0.1	454	<.1	414	<.1	536
	1979	0.1	428	<.1	406	<.1	637	<.1	655
	1980	0.1	418	0.2	436	0.1	392	0.1	634
	1981	0.1	422	0.2	479	0.0		0.0	
	1982	0.2	420	0.3	433	0.0		<.1	687
	1983	0.5	395	0.2	444	0.2	568	0.2	624
	1984	0.3	408	0.2	461	0.2	516	0.0	
	1985	0.1	350	0.1	485	0.1	573	0.1	646
	1986	0.3	409	0.4	469	0.1	501	0.1	536
	1987	0.1	432	0.2	459	0.2	538	0.1	534
	1988	0.2	404	0.3	442	0.2	547	0.1	599
Spotted seatrout	1976	ND		ND		ND		ND	
	1977	1.3	394	0.5	491	0.1	576	<.1	695
	1978	0.3	414	0.1	474	<.1	632	0.0	
	1979	0.3	387	0.2	481	<.1	628	<.1	375
	1980	0.6	377	0.1	506	<.1	488	<.1	
	1981	1.4	395	0.4	489	<.1	494	<.1	470
	1982	0.6	414	0.3	509	0.1	544	0.0	
	1983	1.4	425	0.2	520	<.1	553	0.0	
	1984	0.4	418	0.2	533	<.1	601	<.1	488
	1985	0.2	405	0.2	512	0.1	536	<.1	542
	1986	0.7	407	0.2	511	<.1	506	<.1	442
	1987	0.5	384	0.1	512	0.1	582	<.1	522
	1988	0.5	412	0.1	517	0.1	556	<.1	440

Table A.3. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1976	ND		ND		ND		ND	
	1977	0.2	217	0.1	296	<.1	376	0.0	
	1978	0.1	315	0.1	297	0.1	372	0.1	457
	1979	0.1	246	0.4	301	0.1	361	0.1	429
	1980	0.7	231	0.2	310	0.1	406	<.1	485
	1981	0.3	242	0.3	308	0.2	416	<.1	450
	1982	0.3	232	0.3	291	0.1	401	0.1	459
	1983	0.2	240	1.0	338	1.0	384	0.5	443
	1984	0.1	242	0.3	343	0.4	395	0.2	479
	1985	0.1	239	0.1	312	0.1	384	<.1	455
	1986	0.1	256	0.3	315	0.2	404	<.1	467
	1987	0.1	236	0.3	290	0.1	399	0.1	439
	1988	<.1	222	0.2	306	0.3	396	0.2	448
Sheepshead	1976	ND		ND		ND		ND	
	1977	0.0		0.0		<.1	234	0.0	
	1978	0.0		0.1	291	0.3	295	<.1	341
	1979	0.0		0.0		0.1	297	<.1	297
	1980	0.0		<.1	239	0.2	342	0.1	375
	1981	0.0		0.1	235	<.1	347	0.1	400
	1982	0.0		0.0		0.0		0.0	
	1983	0.0		0.1	305	0.2	306	0.1	331
	1984	0.0		<.1	270	0.2	332	0.1	395
	1985	0.0		<.1	335	0.1	357	0.1	389
	1986	0.0		<.1	288	0.1	350	<.1	418
	1987	0.0		<.1	301	0.1	285	0.1	365
	1988	0.0		<.1	300	<.1	334	<.1	405

Table A.3. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	ND		ND		ND		ND	
	1977	0.0		<.1	272	0.1	344	<.1	484
	1978	0.0		<.1	323	<.1	302	<.1	508
	1979	<.1		<.1	348	0.1	346	<.1	357
	1980	<.1		0.1	287	<.1	374	<.1	412
	1981	0.0		0.0		<.1	340	0.0	
	1982	<.1	287	0.0		<.1	351	0.0	
	1983	<.1	317	<.1	291	<.1	345	0.0	
	1984	0.0		<.1	420	<.1	353	<.1	424
	1985	0.0		<.1	280	0.1	354	<.1	396
	1986	<.1	268	0.1	301	<.1	328	<.1	415
	1987	<.1	302	<.1	302	<.1	322	<.1	384
	1988	0.0		<.1	336	<.1	357	<.1	387
Atlantic croaker	1976	ND		ND		ND		ND	
	1977	0.1	255	0.0		0.0		0.0	
	1978	<.1	270	0.0		0.0		0.0	
	1979	<.1	257	0.0		0.0		0.0	
	1980	0.1	250	<.1		0.0		0.0	
	1981	0.1	250	0.0		0.0		0.0	
	1982	0.1	258	0.0		0.0		0.0	
	1983	0.1	278	0.0		0.0		0.0	
	1984	<.1	322	0.0		0.0		0.0	
	1985	<.1	318	0.0		0.0		0.0	
	1986	0.1	250	0.0		0.0		0.0	
	1987	<.1	242	0.0		0.0		0.0	
	1988	<.1	233	0.0		0.0		<.1	206

Table A.3. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	ND		ND		ND		ND	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1976	ND		ND		ND		ND	
	1977	0.0		0.1	444	0.3	506	0.1	568
	1978	0.0		0.0		<.1	532	0.1	553
	1979	0.0		<.1	409	0.3	530	0.1	580
	1980	0.0		<.1	502	0.1	552	0.1	587
	1981	<.1	357	0.1	414	0.1	486	0.1	576
	1982	0.0		0.1	417	0.1	508	<.1	603
	1983	<.1	376	0.0		0.0		<.1	574
	1984	0.0		0.0		0.0		<.1	580
	1985	0.0		<.1	438	<.1	483	<.1	494
	1986	<.1	336	0.1	439	0.1	511	<.1	563
	1987	0.0		<.1	402	<.1	495	0.1	555
	1988	0.0		<.1	458	0.1	540	<.1	547

Table A.3. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf	1976	ND		ND		ND		ND	
menhaden	1977	0.2	243	0.4	324	0.0		0.0	
	1978	0.0		0.0		<.1	194	0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	<.1	281	0.0		0.0		0.0	
	1986	<.1	226	0.0		0.0		0.0	
	1987	<.1	227	0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Hardhead	1976	ND		ND		ND		ND	
catfish	1977	0.1	298	0.1	317	0.0		<.1	333
	1978	0.2	306	0.1	359	0.0		0.0	
	1979	0.2	324	0.1	389	<.1	240	0.0	
	1980	0.7	314	0.2	337	<.1		0.1	304
	1981	0.7	328	0.4	364	<.1	349	<.1	315
	1982	1.0	334	0.3	355	0.1	347	<.1	349
	1983	0.7	334	0.2	376	<.1	290	<.1	295
	1984	0.4	323	0.1	369	<.1	325	0.0	
	1985	0.6	315	0.5	367	0.1	346	<.1	352
	1986	1.1	325	0.6	377	0.1	347	0.1	355
	1987	0.8	310	0.6	363	0.1	329	<.1	318
	1988	0.8	318	0.3	347	0.1	334	0.1	317

Table A.3. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	ND		ND		ND		ND	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	230	0.0		0.0		0.0	
	1982	<.1	205	0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1976	ND		ND		ND		ND	
	1977	<.1	233	0.0		0.0		0.0	
	1978	<.1	256	0.0		0.0		0.0	
	1979	<.1	259	0.0		0.0		0.0	
	1980	<.1	233	0.0		0.0		0.0	
	1981	<.1	230	0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	
	1983	<.1	234	0.0		0.0		0.0	
	1984	<.1	220	<.1	357	0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	<.1	249	0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	<.1	252	0.0		0.0		0.0	

Table A.3. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1976	ND		ND		ND		ND	
	1977	0.0		0.0		0.0		0.0	
	1978	0.1	327	0.0		0.0		0.0	
	1979	0.1	322	<.1	407	0.0		0.0	
	1980	<.1	338	0.0		0.0		0.0	
	1981	0.1	345	0.0		0.0		0.0	
	1982	0.2	295	0.0		0.0		0.0	
	1983	0.1	342	<.1	395	0.0		0.0	
	1984	0.2	340	0.0		0.0		0.0	
	1985	0.2	329	<.1	386	0.0		0.0	
	1986	0.2	321	0.0		0.0		0.0	
	1987	0.1	312	<.1	455	<.1	390	0.0	
	1988	0.2	331	<.1	425	0.0		0.0	
Other finfishes	1976	ND		ND		ND		ND	
	1977	0.1	298	0.1	358	<.1	378	0.1	854
	1978	0.2	278	<.1	343	<.1	164	0.0	
	1979	0.1	327	<.1	448	<.1	696	<.1	
	1980	0.2	270	0.0		0.0		<.1	1120
	1981	0.8	278	<.1		0.0		0.0	
	1982	0.6	323	0.1	353	<.1	855	0.0	
	1983	0.4	297	0.1	310	<.1	168	<.1	1020
	1984	0.1	287	0.1	362	0.0		<.1	
	1985	0.2	434	0.1	430	0.1	855	<.1	961
	1986	0.3	271	0.1	356	<.1	421	<.1	394
	1987	0.1	483	0.1	341	<.1	615	<.1	853
	1988	0.3	412	0.1	368	<.1	787	<.1	1142

Table A.3. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1976	ND		ND		ND		ND	
	1977	2.1	349	1.5	396	0.5	477	0.2	635
	1978	1.2	349	0.5	364	0.5	331	0.2	496
	1979	0.9	336	0.8	381	0.6	451	0.3	502
	1980	2.4	306	0.9	368	0.4	399	0.4	478
	1981	3.5	337	1.4	392	0.4	429	0.2	479
	1982	2.9	337	1.3	394	0.4	474	0.2	499
	1983	3.5	366	1.9	369	1.5	396	0.8	473
	1984	1.5	362	1.0	411	0.8	410	0.4	459
	1985	1.6	351	1.2	404	0.6	472	0.4	547
	1986	2.7	352	1.8	398	0.6	421	0.4	457
	1987	1.8	244	1.4	373	0.6	451	0.4	490
	1988	2.0	348	1.2	391	0.8	475	0.5	526
Blue crab	1983	0.1	132	0.2	159	<.1	161	<.1	172
	1984	0.1	120	0.2	135	<.1	151	0.0	
	1985	0.1	132	0.2	150	0.1	159	<.1	171
	1986	0.2	116	0.2	137	0.1	147	<.1	134
	1987	<.1	135	0.2	135	<.1	141	<.1	150
	1988	<.1	156	<.1	156	<.1	165	<.1	164

Table A.4. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Matagorda Bay system during spring 1976-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	0.4	396	0.4	428	0.1	600	<.1	390
	1977	<.1	423	0.1	476	0.0		0.0	
	1978	0.1	418	0.2	442	0.1	550	0.1	589
	1979	0.1	406	<.1	434	<.1	360	<.1	457
	1980	0.8	378	0.2	401	0.1	431	0.0	
	1981	0.2	407	<.1	422	0.0		0.0	
	1982	0.3	406	0.2	423	<.1	565	<.1	604
	1983	0.5	387	0.1	435	<.1	514	<.1	582
	1984	0.1	407	<.1	452	<.1	565	<.1	568
	1985	0.1	388	<.1	466	<.1	516	<.1	589
	1986	0.3	448	0.4	444	0.1	544	<.1	637
	1987	0.3	402	0.3	438	0.2	559	0.1	608
	1988	0.4	369	0.2	475	0.1	548	<.1	618
Spotted seatrout	1976	0.3	422	0.0		0.0		0.0	
	1977	0.2	381	0.0		0.0		0.0	
	1978	0.4	372	0.2	494	0.0		0.0	
	1979	0.1	432	0.1	535	<.1	631	0.0	
	1980	0.4	384	0.2	495	<.1	531	0.0	
	1981	0.3	387	<.1	524	0.0		0.0	
	1982	0.2	403	0.2	485	0.1	571	<.1	527
	1983	0.4	413	0.2	499	<.1	571	<.1	522
	1984	0.2	406	0.1	509	<.1	393	<.1	460
	1985	0.2	393	0.1	499	<.1	631	0.0	
	1986	0.3	395	0.2	511	<.1	572	<.1	463
	1987	0.3	398	0.1	507	<.1	518	<.1	456
	1988	0.3	390	0.2	506	<.1	460	<.1	369

Table A.4. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black drum	1976	0.1	218	0.1	270	0.0		0.6	468
	1977	0.1	241	0.1	533	0.2	663	0.1	521
	1978	0.1	220	0.1	298	<.1	388	<.1	498
	1979	0.2	239	0.1	390	0.1	628	<.1	504
	1980	0.4	270	0.2	328	0.1	611	<.1	780
	1981	0.2	227	0.1	301	<.1	673	<.1	640
	1982	0.2	262	0.1	348	0.1	431	0.1	503
	1983	0.1	248	0.3	331	0.1	426	0.1	529
	1984	<.1	236	<.1	327	<.1	511	<.1	482
	1985	0.2	282	0.1	349	<.1	814	<.1	751
	1986	0.1	260	0.1	341	0.1	521	<.1	596
	1987	0.1	274	0.1	316	0.1	407	0.1	457
	1988	0.1	236	0.1	326	0.1	442	0.1	480
Sheepshead	1976	0.0		0.0		0.0		0.1	420
	1977	0.0		<.1	242	<.1	292	<.1	329
	1978	0.0		<.1	278	0.0		0.0	
	1979	0.0		0.0		<.1	362	<.1	420
	1980	0.0		<.1	242	0.1	348	<.1	389
	1981	<.1	370	<.1	536	0.0		0.0	
	1982	<.1	221	<.1	276	<.1	314	<.1	381
	1983	<.1	404	<.1	345	0.1	359	<.1	398
	1984	0.0		<.1	293	<.1	431	<.1	419
	1985	0.0		<.1	328	<.1	289	<.1	398
	1986	0.0		<.1	330	<.1	353	<.1	433
	1987	0.0		<.1	257	<.1	338	<.1	377
	1988	0.0		<.1	296	<.1	333	<.1	414

Table A.4. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1	265	<.1	391	0.0	
	1978	0.0		0.0		<.1	346	<.1	315
	1979	<.1	217	<.1	292	<.1	352	0.0	
	1980	0.0		<.1	276	<.1	339	0.0	
	1981	0.0		<.1	270	0.0		0.0	
	1982	<.1	310	<.1	291	<.1	325	<.1	335
	1983	<.1	312	<.1	295	<.1	376	<.1	375
	1984	<.1	286	<.1	310	<.1	315	<.1	383
	1985	<.1	279	<.1	312	<.1	343	<.1	398
	1986	<.1	368	<.1	314	<.1	393	<.1	408
	1987	<.1	254	<.1	283	<.1	300	<.1	373
	1988	<.1	374	<.1	320	<.1	374	<.1	394
Atlantic croaker	1976	0.0		0.0		0.0		0.1	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	293	0.0		0.0		0.0	
	1979	<.1	263	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	276	0.0		0.0		0.0	
	1982	<.1	270	0.0		0.0		0.0	
	1983	<.1	273	0.0		0.0		0.0	
	1984	<.1	253	<.1	139	0.0		0.0	
	1985	<.1	260	0.0		0.0		0.0	
	1986	<.1	245	0.0		0.0		0.0	
	1987	<.1	247	<.1	123	<.1	254	0.0	
	1988	<.1	292	<.1	244	0.0		0.0	

Table A.4. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		<.1	270
	1982	0.0		0.0		0.0		<.1	171
	1983	0.0		<.1	272	<.1	205	0.0	
	1984	0.0		<.1	180	0.0		0.0	
	1985	0.0		<.1	172	<.1		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		<.1	279	0.0	
Gafftopsail catfish	1976	0.0		0.0		0.3	408	0.3	580
	1977	0.0		<.1	518	0.3	539	0.5	569
	1978	0.0		0.1	451	0.4	527	0.6	576
	1979	0.0		<.1	475	0.1	548	0.2	562
	1980	0.0		0.0		0.1	534	0.4	561
	1981	<.1	386	0.1	440	0.3	550	0.4	570
	1982	0.0		<.1	500	0.1	516	0.3	561
	1983	0.0		<.1	466	0.1	535	0.1	555
	1984	<.1	502	0.2	477	0.4	533	0.4	556
	1985	<.1	338	<.1	408	0.1	526	0.2	554
	1986	<.1	325	<.1	426	0.1	534	0.1	566
	1987	0.0		<.1	455	0.1	524	0.1	570
	1988	<.1	550	0.1	458	0.2	524	0.2	560

Table A.4. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1976	0.1	250	0.0		0.0		0.0	
	1977	<.1	246	0.0		<.1	244	0.0	
	1978	0.1	246	0.0		<.1	240	0.0	
	1979	0.1	251	<.1	250	0.0		0.0	
	1980	<.1	256	0.0		<.1	242	0.0	
	1981	0.2	254	0.0		0.0		0.0	
	1982	<.1	246	<.1	221	<.1	274	<.1	262
	1983	0.1	250	<.1	258	<.1	254	<.1	246
	1984	0.1	249	<.1	265	<.1	238	<.1	245
	1985	0.4	246	<.1	218	<.1	219	<.1	193
	1986	0.1	247	<.1	226	<.1	160	<.1	191
	1987	<.1	239	<.1	271	0.0		<.1	236
	1988	0.2	244	0.0		<.1	225	<.1	243
Hardhead catfish	1976	0.1	285	0.3	315	0.0		0.1	250
	1977	1.0	310	0.5	348	0.2	279	0.2	301
	1978	0.1	306	0.1	284	<.1	276	0.0	
	1979	0.4	316	0.1	313	0.0		0.0	
	1980	0.2	314	<.1		<.1	330	<.1	333
	1981	1.3	329	0.2	325	0.1	318	0.0	
	1982	0.6	321	0.2	352	<.1	298	<.1	338
	1983	0.3	316	0.1	330	<.1	310	<.1	308
	1984	0.6	317	0.3	349	<.1	281	<.1	303
	1985	0.8	318	0.3	363	0.1	315	<.1	317
	1986	0.9	312	0.4	354	0.1	310	<.1	302
	1987	0.5	325	0.4	374	0.1	337	<.1	306
	1988	0.4	322	0.3	363	<.1	306	<.1	331

Table A.4. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	217	0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	<.1	150	0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	232	0.0		0.0		0.0	
	1979	<.1	250	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	240	0.0		0.0		0.0	
	1982	<.1	260	0.0		0.0		0.0	
	1983	0.1	238	0.0		0.0		0.0	
	1984	<.1	292	<.1		0.0		0.0	
	1985	<.1	235	0.0		0.0		0.0	
	1986	<.1	240	0.0		0.0		0.0	
	1987	<.1	241	0.0		0.0		0.0	
	1988	<.1	234	<.1	358	0.0		0.0	

Table A.4. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1976	0.2	322	0.0		0.0		0.0	
	1977	0.2	314	0.0		0.0		0.0	
	1978	0.3	330	<.1	409	0.0		0.0	
	1979	0.1	341	0.0		0.0		0.0	
	1980	0.4	335	<.1	325	0.0		0.0	
	1981	<.1	336	0.0		0.0		0.0	
	1982	0.2	324	<.1	361	0.0		0.0	
	1983	0.1	343	<.1	405	0.0		0.0	
	1984	0.2	325	0.1	460	0.0		0.0	
	1985	0.3	330	<.1	431	0.0		0.0	
	1986	0.2	327	<.1	420	0.0		0.0	
	1987	0.2	335	<.1	422	<.1	541	0.0	
	1988	0.1	319	<.1	443	0.0		0.0	
Other finfishes	1976	0.4	271	1.3	386	0.0		0.0	
	1977	1.3	473	0.4	480	<.1	618	0.2	1037
	1978	1.0	310	0.2	441	0.1	814	0.2	1086
	1979	0.8	347	0.2	456	0.1	590	0.1	879
	1980	1.1	403	0.2	628	0.1	954	0.1	1057
	1981	1.1	295	0.2	596	0.1	827	0.3	879
	1982	1.4	447	0.3	539	0.2	733	0.1	902
	1983	0.9	408	0.2	591	0.1	855	0.1	878
	1984	0.7	500	0.2	543	0.1	799	0.1	924
	1985	1.0	415	0.3	586	0.2	810	0.2	932
	1986	0.9	466	0.1	561	0.1	845	0.1	933
	1987	0.6	408	0.1	526	0.1	881	0.1	978
	1988	0.7	281	0.1	490	0.1	676	0.1	794

Table A.4. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1976	1.4	333	2.1	381	0.4	456	1.3	467
	1977	2.9	385	1.2	426	0.8	487	1.0	590
	1978	2.3	320	1.0	416	0.7	534	0.9	686
	1979	1.9	332	0.7	426	0.4	566	0.4	610
	1980	3.3	363	0.9	428	0.6	553	0.6	673
	1981	3.4	321	0.7	425	0.5	567	0.7	689
	1982	3.0	372	1.1	443	0.6	537	0.6	632
	1983	2.5	360	1.1	421	0.5	535	0.4	598
	1984	1.9	361	1.0	438	0.7	558	0.6	634
	1985	3.1	349	0.9	459	0.6	634	0.6	744
	1986	2.7	354	1.3	430	0.6	573	0.4	672
	1987	1.9	366	1.1	416	0.6	536	0.4	618
	1988	2.2	328	1.1	429	0.2	531	0.6	570
Blue crab	1983	<.1	151	<.1	150	<.1	155	<.1	140
	1984	<.1	127	0.1	150	<.1	155	<.1	137
	1985	0.1	140	<.1	144	<.1	156	<.1	144
	1986	<.1	133	0.1	137	<.1	144	<.1	151
	1987	<.1	131	0.1	133	<.1	148	<.1	151
	1988	<.1	130	<.1	137	<.1	167	0.0	

Table A.5. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the San Antonio Bay system during spring 1976-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	0.7	414	0.3	400	0.0		0.0	
	1977	0.2	367	0.1	422	0.0		0.0	
	1978	0.1	395	<.1	428	0.0		0.0	
	1979	0.1	389	0.1	465	<.1	449	0.0	
	1980	0.4	384	0.3	422	<.1	447	0.0	
	1981	0.5	383	<.1	407	<.1	519	0.0	
	1982	0.3	393	0.1	432	<.1	457	<.1	615
	1983	0.5	367	0.1	427	<.1	566	<.1	650
	1984	<.1	437	0.1	516	<.1	547	<.1	536
	1985	<.1	394	0.1	479	<.1	485	<.1	668
	1986	0.2	416	0.3	446	0.1	527	<.1	620
	1987	0.3	382	0.2	444	0.2	528	0.1	584
	1988	0.5	384	0.3	447	0.2	592	0.1	605
Spotted seatrout	1976	0.1		0.3	382	0.1		0.0	
	1977	0.8	382	0.1	431	<.1	670	0.0	
	1978	1.1	391	0.2	484	<.1	473	0.0	
	1979	0.1	395	<.1	535	0.0		0.0	
	1980	0.7	377	0.2	501	<.1	365	<.1	612
	1981	0.3	390	0.2	528	0.1	507	<.1	403
	1982	0.6	401	0.2	512	<.1	548	<.1	385
	1983	0.5	407	0.2	506	<.1	549	<.1	444
	1984	0.2	429	0.1	530	<.1	575	<.1	525
	1985	0.2	406	0.1	518	<.1	574	0.0	
	1986	0.3	385	0.1	504	<.1	508	0.0	
	1987	0.2	389	0.1	500	<.1	556	<.1	427
	1988	0.3	390	0.1	510	<.1	530	<.1	459

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1976	0.8	300	0.2	335	0.0		0.0	
	1977	0.2	238	0.6	306	0.1	475	0.0	
	1978	<.1	273	<.1	292	0.0		<.1	496
	1979	<.1	290	0.0		<.1	386	<.1	578
	1980	0.3	236	0.1	299	<.1	373	<.1	470
	1981	<.1	251	0.2	314	0.1	407	<.1	497
	1982	0.4	242	0.2	330	0.1	420	0.1	495
	1983	0.2	248	0.3	345	0.1	430	<.1	464
	1984	<.1	252	0.1	424	0.1	496	<.1	530
	1985	<.1	315	<.1	308	<.1	746	<.1	951
	1986	<.1	271	0.1	303	<.1	385	<.1	402
	1987	<.1	399	0.1	327	<.1	409	0.1	502
	1988	<.1	318	0.2	306	0.1	394	<.1	465
Sheepshead	1976	0.2	302	0.0		0.2	380	0.0	
	1977	0.0		0.0		0.1	295	<.1	386
	1978	0.0		<.1	280	<.1	350	<.1	323
	1979	0.0		0.0		<.1	402	0.0	
	1980	<.1	234	<.1	253	<.1	387	<.1	448
	1981	0.0		0.1	246	0.3	309	0.2	394
	1982	<.1	295	<.1	290	<.1	335	0.1	398
	1983	<.1	312	<.1	329	0.1	383	<.1	414
	1984	<.1	417	<.1	389	0.1	386	0.1	409
	1985	<.1	346	<.1	358	<.1	404	<.1	440
	1986	<.1	151	<.1	293	<.1	439	<.1	453
	1987	0.0		<.1	277	0.0		<.1	458
	1988	<.1	178	<.1	264	<.1	340	<.1	405

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	0.0		0.1	335	0.0		0.0	
	1977	<.1	208	0.0		0.0		0.0	
	1978	<.1	219	<.1	303	<.1	311	0.0	
	1979	<.1	350	<.1	305	<.1	374	<.1	422
	1980	<.1	325	<.1	310	<.1	365	0.0	
	1981	<.1	281	<.1	322	0.0		0.0	
	1982	<.1	225	<.1	279	<.1	339	<.1	369
	1983	<.1	386	<.1	305	<.1	344	<.1	386
	1984	<.1	279	<.1	302	<.1	342	<.1	372
	1985	<.1	319	<.1	314	<.1	332	<.1	357
	1986	<.1	213	<.1	287	<.1	345	<.1	346
	1987	<.1	309	<.1	314	<.1	350	<.1	389
	1988	<.1	253	<.1	317	<.1	356	<.1	405
Atlantic croaker	1976	0.2	332	0.0		0.0		0.0	
	1977	<.1	226	0.0		0.0		0.0	
	1978	<.1	250	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	254	0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	267	<.1	285	<.1	232	0.0	
	1983	<.1	277	0.0		0.0		0.0	
	1984	<.1	298	0.0		0.0		0.0	
	1985	<.1	227	0.0		<.1	142	0.0	
	1986	<.1	250	0.0		0.0		0.0	
	1987	<.1	268	0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		<.1	209	0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	378	0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		<.1	236	0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1976	0.2	410	0.2	385	1.1	515	0.8	407
	1977	<.1	516	0.2	467	1.7	525	1.4	564
	1978	0.0		0.4	438	1.1	496	0.4	558
	1979	0.0		<.1	474	0.1	534	0.3	541
	1980	0.0		<.1	481	0.6	536	0.5	564
	1981	0.0		<.1	467	0.2	497	0.3	568
	1982	0.0		0.1	498	0.6	531	0.7	561
	1983	<.1	499	0.2	484	0.8	524	0.9	556
	1984	<.1	396	0.2	485	0.4	518	0.6	562
	1985	0.0		0.1	450	0.3	536	0.4	565
	1986	<.1	439	0.1	475	0.2	550	0.2	565
	1987	0.0		<.1	496	<.1	545	0.1	584
	1988	0.0		<.1	498	0.1	537	0.2	576

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1976	0.0		0.0		0.1	275	0.0	
	1977	0.0		<.1	270	<.1	153	<.1	237
	1978	1.0	254	<.1	255	0.1	289	0.0	
	1979	0.0		<.1	132	0.0		0.0	
	1980	<.1	238	<.1	324	<.1	282	0.0	
	1981	<.1	266	<.1	291	0.1	237	<.1	263
	1982	0.1	241	<.1	298	<.1	239	0.1	243
	1983	0.1	249	<.1	226	<.1	241	<.1	234
	1984	<.1	251	0.1	319	<.1	248	<.1	244
	1985	0.2	245	<.1	232	<.1	224	<.1	250
	1986	0.1	248	<.1	232	<.1	245	<.1	233
	1987	0.0		0.0		<.1	209	<.1	243
	1988	<.1	255	<.1	319	0.0		0.0	
Hardhead catfish	1976	0.3	402	1.1	291	0.1	280	0.0	
	1977	0.5	315	0.2	356	0.1	256	0.0	
	1978	0.8	310	0.2	355	<.1	260	0.0	
	1979	0.3	319	0.2	361	<.1	329	<.1	358
	1980	0.4	318	0.3	347	0.1	313	0.1	319
	1981	0.7	314	0.3	351	0.1	336	<.1	326
	1982	1.1	319	0.7	347	0.1	331	0.1	369
	1983	0.7	331	0.6	358	0.1	318	0.1	319
	1984	1.1	330	0.7	355	0.2	307	0.1	314
	1985	0.8	339	0.6	359	0.2	320	<.1	335
	1986	0.5	328	0.6	361	0.1	347	<.1	311
	1987	0.3	336	0.4	373	0.1	355	<.1	336
	1988	0.5	333	0.6	377	0.2	344	0.1	327

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1	222	0.0		0.0	
	1978	<.1	196	0.0		0.0		0.0	
	1979	<.1		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		<.1	246	0.0		0.0	
	1982	<.1	212	<.1	238	0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0			
Spot	1976	0.0		0.0		0.0		0.0	
	1977	0.1	230	0.0		0.0		0.0	
	1978	0.1	242	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	239	0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	244	0.0		0.0		0.0	
	1983	0.1	248	0.0		0.0		0.0	
	1984	<.1	255	0.0		<.1	248	0.0	
	1985	<.1	238	0.0		0.0		0.0	
	1986	<.1	232	0.0		0.0		0.0	
	1987	<.1	230	0.0		0.0		0.0	
	1988	<.1	233	0.0		0.0		0.0	

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1976	0.0		0.2	338	0.0		0.0	
	1977	0.9	317	0.0		0.0		0.0	
	1978	0.2	334	0.0		0.0		0.0	
	1979	0.7	341	<.1	424	0.0		0.0	
	1980	0.2	323	<.1	429	0.0		0.0	
	1981	<.1	331	<.1	372	0.0		0.0	
	1982	0.2	330	<.1	362	0.0		0.0	
	1983	0.2	338	<.1	400	0.0		0.0	
	1984	0.2	333	<.1	407	0.0		0.0	
	1985	0.1	327	<.1	398	0.0		0.0	
	1986	0.1	324	<.1	449	<.1	415	0.0	
	1987	0.2	314	0.1	408	<.1	419	0.0	
	1988	0.2	335	<.1	428	<.1	393	0.0	
Other finfishes	1976	0.1	570	0.0		0.2	502	0.2	760
	1977	0.4	426	0.2	406	0.1	589	0.1	1153
	1978	1.2	459	0.3	464	0.2	687	<.1	1079
	1979	0.8	437	0.2	608	0.1	748	0.1	946
	1980	0.4	457	0.2	603	0.1	717	<.1	824
	1981	1.4	391	0.2	470	0.3	635	0.2	865
	1982	0.4	448	0.2	562	0.1	648	0.1	896
	1983	0.6	447	0.2	571	0.1	695	0.1	761
	1984	0.6	514	0.2	552	0.1	714	0.1	848
	1985	0.2	679	0.2	761	0.2	907	0.1	1103
	1986	0.1	464	<.1	492	0.1	806	<.1	962
	1987	0.2	407	<.1	423	<.1	654	<.1	998
	1988	0.3	438	0.3	617	0.1	795	0.1	862

Table A.5. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1976	2.6	363	2.3	332	1.7	472	1.0	466
	1977	3.2	340	1.4	361	2.1	503	1.5	581
	1978	4.6	355	1.1	433	1.6	494	0.4	600
	1979	2.1	402	0.5	479	0.2	573	0.4	607
	1980	2.5	358	1.1	427	0.9	503	0.7	547
	1981	3.0	364	1.1	399	1.2	455	0.8	572
	1982	3.0	341	1.6	418	1.0	472	1.2	533
	1983	3.0	345	1.7	419	1.3	493	1.2	548
	1984	2.2	368	1.5	434	1.0	484	0.9	517
	1985	1.6	395	1.2	478	0.8	549	0.6	623
	1986	1.3	355	1.2	405	0.6	507	0.4	565
	1987	1.2	361	0.9	416	0.4	479	0.3	558
	1988	1.8	373	1.6	442	0.7	538	0.6	557
Blue crab	1983	0.1	123	0.1	144	<.1	151	<.1	153
	1984	<.1	119	0.1	143	<.1	151	<.1	142
	1985	<.1	136	0.1	131	<.1	143	<.1	130
	1986	<.1	131	<.1	137	<.1	148	<.1	128
	1987	<.1	127	0.1	144	<.1	142	<.1	156
	1988	<.1	124	<.1	148	<.1	147	<.1	156

Table A.6. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Aransas Bay system during spring 1976-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	0.2	393	0.6	458	0.1	600	0.1	362
	1977	0.3	363	0.1	480	0.1	475	0.0	
	1978	<.1	403	<.1		0.1	468	0.0	
	1979	0.3	400	0.1	464	<.1	504	<.1	443
	1980	0.3	353	<.1	413	<.1	443	<.1	394
	1981	0.3	369	<.1	471	0.1	488	<.1	458
	1982	0.3	400	0.1	453	<.1	522	<.1	631
	1983	0.4	371	0.1	415	<.1	430	<.1	517
	1984	0.2	414	0.1	422	<.1	492	<.1	435
	1985	0.1	413	0.2	451	0.1	547	<.1	527
	1986	0.4	370	0.1	450	<.1	553	<.1	624
	1987	0.2	368	0.2	454	0.2	564	0.1	543
	1988	0.3	380	0.1	466	0.1	533	<.1	657
Spotted seatrout	1976	1.8	410	0.7	527	0.4	585	0.4	479
	1977	0.8	372	0.1	560	0.1	615	0.0	
	1978	0.1	381	<.1	501	<.1		0.0	
	1979	0.2	448	0.2	543	<.1	578	<.1	606
	1980	0.1	399	0.1	517	<.1	600	0.0	
	1981	0.5	414	0.2	533	0.1	619	<.1	690
	1982	0.5	400	0.2	493	0.1	535	<.1	455
	1983	0.4	410	0.2	516	<.1	546	<.1	401
	1984	0.2	405	0.1	490	<.1	443	0.0	
	1985	0.2	394	0.1	516	<.1	498	<.1	545
	1986	0.3	395	0.1	521	<.1	464	<.1	421
	1987	0.3	397	0.2	522	<.1	528	<.1	535
	1988	0.3	396	0.2	534	<.1	572	<.1	506

Table A.6. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1976	0.0		0.1	320	0.6	388	0.2	427
	1977	0.2	223	0.8	305	0.2	390	0.1	454
	1978	0.1	228	0.2	348	0.1	396	0.1	440
	1979	0.1	225	0.1	310	0.1	366	<.1	457
	1980	0.3	233	0.3	309	0.2	413	0.1	447
	1981	0.3	259	0.3	361	0.1	482	0.1	491
	1982	0.5	246	0.4	314	0.1	418	<.1	493
	1983	0.2	255	0.6	321	0.3	390	0.1	473
	1984	<.1	713	<.1	496	<.1	535	<.1	544
	1985	0.1	276	0.1	306	<.1	467	0.1	565
	1986	0.1	245	0.1	321	0.1	422	<.1	434
	1987	0.1	296	0.2	326	0.2	411	0.1	476
	1988	<.1	305	0.2	313	0.1	437	0.1	492
Sheepshead	1976	0.0		0.0		0.1	281	0.5	352
	1977	0.0		<.1	230	<.1	235	0.0	
	1978	0.0		0.1	264	<.1	343	0.1	448
	1979	0.0		<.1		0.1	317	0.1	323
	1980	<.1	265	<.1	249	<.1	374	0.1	377
	1981	<.1	224	0.1	324	0.1	305	0.1	399
	1982	<.1	182	<.1	301	<.1	337	<.1	362
	1983	<.1	406	<.1	296	<.1	340	<.1	386
	1984	0.0		<.1	401	<.1	404	<.1	399
	1985	<.1	381	0.0		<.1	363	<.1	393
	1986	0.0		<.1	253	<.1	285	<.1	444
	1987	0.0		<.1	297	<.1	323	<.1	390
	1988	0.0		<.1	331	<.1	352	<.1	377

Table A.6. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1	282	0.1	383	0.0	
	1978	0.0		<.1	338	0.0		0.0	
	1979	0.0		<.1	291	0.0		0.0	
	1980	<.1	263	<.1	307	<.1	312	0.0	
	1981	0.0		0.0		<.1	363	<.1	373
	1982	<.1	266	<.1	286	<.1	344	<.1	324
	1983	<.1	306	<.1	297	<.1	356	<.1	400
	1984	<.1	301	<.1	272	<.1	337	<.1	433
	1985	<.1	322	<.1	319	<.1	378	<.1	361
	1986	<.1	328	<.1	329	<.1	345	<.1	432
	1987	<.1	230	<.1	310	<.1	369	<.1	392
	1988	<.1	260	<.1	286	<.1	359	<.1	422
Atlantic croaker	1976	0.0		0.0		0.0		0.0	
	1977	<.1	285	0.0		0.0		0.0	
	1978	<.1	247	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	240	0.0		0.0		0.0	
	1981	<.1	279	<.1	320	<.1	310	0.0	
	1982	<.1	261	<.1	153	0.0		0.0	
	1983	<.1	286	0.0		0.0		0.0	
	1984	<.1	276	<.1		0.0		0.0	
	1985	<.1	115	0.0		0.0		0.0	
	1986	<.1	291	0.0		0.0		0.0	
	1987	<.1	247	<.1	242	0.0		0.0	
	1988	<.1	260	0.0		0.0		0.0	

Table A.6. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand seatrout	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		<.1	230
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1976	0.0		0.0		0.0		0.0	
	1977	<.1	335	0.9	473	1.6	514	0.5	553
	1978	0.0		0.0		<.1	540	<.1	550
	1979	0.0		0.1	439	0.2	537	0.2	574
	1980	0.0		0.0		0.2	531	0.2	572
	1981	0.0		0.1	474	0.6	530	0.7	561
	1982	<.1	420	0.1	500	0.3	528	0.5	573
	1983	<.1	565	0.2	466	0.4	528	0.4	575
	1984	<.1	548	<.1	481	0.2	540	0.2	577
	1985	<.1	386	<.1	425	<.1	548	0.1	576
	1986	0.0		0.1	459	0.2	530	0.1	564
	1987	<.1	554	<.1	482	0.1	562	0.1	595
	1988	0.0		<.1	497	0.1	550	0.1	576

Table A.6. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1976	0.0		0.0		0.0		0.0	
	1977	0.3	247	0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		<.1	247	<.1	230
	1980	<.1	271	0.0		0.0		0.0	
	1981	0.1	255	<.1	256	<.1	252	<.1	247
	1982	0.1	253	<.1	250	<.1	226	<.1	239
	1983	0.1	245	<.1	255	<.1	223	<.1	245
	1984	0.2	249	<.1	252	<.1	228	<.1	254
	1985	0.3	251	<.1	224	<.1	250	<.1	254
	1986	0.2	245	<.1	254	<.1	251	0.0	
	1987	<.1	238	0.0		<.1	214	0.0	
	1988	<.1	238	0.0		<.1	219	0.0	
Hardhead catfish	1976	1.6	333	0.4	376	0.2	290	0.1	265
	1977	0.2	293	0.2	324	<.1	264	0.0	
	1978	0.2	341	0.1	356	0.0		0.0	
	1979	0.3	315	0.1	369	<.1	279	<.1	365
	1980	0.2	328	0.1	370	<.1	332	<.1	399
	1981	0.5	331	0.3	370	<.1	353	<.1	334
	1982	0.6	321	0.4	364	0.1	312	<.1	314
	1983	0.4	325	0.4	365	0.1	346	<.1	343
	1984	0.6	323	0.5	368	0.1	350	<.1	337
	1985	0.4	334	0.4	368	0.1	313	<.1	325
	1986	0.3	323	0.3	280	<.1	349	<.1	331
	1987	0.2	330	0.3	381	<.1	361	<.1	322
	1988	0.2	329	0.2	382	0.1	376	<.1	338

Table A.6. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	226	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	228	0.0		0.0		<.1	236
	1983	<.1	160	0.0		0.0		0.0	
	1984	<.1	125	0.0		0.0		0.0	
	1985	<.1	237	0.0		0.0		0.0	
	1986	<.1	174	0.0		0.0		0.0	
	1987	<.1	160	0.0		0.0		0.0	
	1988	<.1	177	<.1	310	0.0		0.0	
Spot	1976	0.0		0.0		0.0		0.0	
	1977	0.1	226	0.0		0.0		0.0	
	1978	<.1		0.0		0.0		0.0	
	1979	<.1	245	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	268	0.0		0.0		0.0	
	1982	<.1	249	0.0		0.0		0.0	
	1983	<.1	237	<.1	176	0.0		0.0	
	1984	<.1	253	0.0		0.0		0.0	
	1985	<.1	241	<.1	235	0.0		0.0	
	1986	<.1	224	0.0		0.0		0.0	
	1987	<.1	245	0.0		0.0		0.0	
	1988	<.1	256	<.1	337	0.0		0.0	

Table A.6. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1976	0.3	315	0.3	417	0.1		0.0	
	1977	0.8	319	0.0		0.0		0.0	
	1978	0.2	314	<.1	433	0.0		0.0	
	1979	0.1	333	<.1	435	<.1		0.0	
	1980	0.1	337	0.0		0.0		0.0	
	1981	0.1	337	<.1	320	0.0		0.0	
	1982	0.2	332	<.1	363	0.0		0.0	
	1983	0.2	337	<.1	426	0.0		0.0	
	1984	0.3	332	<.1	404	0.0		0.0	
	1985	0.2	335	<.1	420	0.0		0.0	
	1986	0.1	333	<.1	391	0.0		0.0	
	1987	0.2	331	<.1	423	<.1	420	0.0	
	1988	0.1	339	<.1	436	0.0		0.0	
Other finfishes	1976	0.4	540	0.1	601	0.2	250	0.3	535
	1977	0.1	375	0.2	665	0.1	846	0.1	867
	1978	0.2	259	0.1	474	<.1	921	0.1	1102
	1979	0.4	387	0.1	459	0.1	1108	0.1	917
	1980	0.3	384	0.1	379	<.1	1033	0.1	1048
	1981	0.6	346	0.2	505	0.1	888	0.1	918
	1982	0.7	432	0.2	477	0.1	757	0.1	942
	1983	0.6	453	0.2	547	0.1	744	<.1	824
	1984	0.3	410	0.3	506	0.1	743	0.1	860
	1985	0.3	433	0.3	615	0.2	854	0.1	1025
	1986	0.2	317	0.1	616	0.1	941	0.1	965
	1987	0.4	311	<.1	435	<.1	890	0.1	1087
	1988	0.1	312	<.1	534	0.1	872	0.1	1039

Table A.6. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1976	4.2	384	2.2	462	1.6	433	1.5	411
	1977	2.8	318	2.3	420	2.3	516	0.8	596
	1978	0.8	307	0.5	382	0.3	487	0.3	637
	1979	1.5	364	0.7	443	0.6	502	0.4	562
	1980	1.4	327	0.7	374	0.6	474	0.5	586
	1981	2.5	346	1.3	419	1.1	513	1.1	551
	1982	2.9	356	1.4	402	0.7	484	0.7	647
	1983	2.3	347	1.6	397	0.9	471	0.6	533
	1984	1.8	362	1.2	441	0.6	537	0.4	582
	1985	1.7	355	1.0	474	0.4	601	0.4	665
	1986	1.7	332	0.8	442	0.4	559	0.3	650
	1987	1.4	350	1.0	406	0.6	523	0.4	631
	1988	1.2	350	0.9	423	0.5	525	0.3	632
Blue crab	1983	0.1	131	0.1	147	<.1	146	<.1	139
	1984	0.1	133	0.1	143	<.1	165	<.1	156
	1985	0.1	130	0.1	144	<.1	151	<.1	151
	1986	<.1	131	0.1	143	<.1	157	<.1	142
	1987	<.1	112	<.1	170	<.1	154	<.1	157
	1988	<.1	112	<.1	144	<.1	164	<.1	155

Table A.6. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1976	4.2	384	2.2	462	1.6	433	1.5	411
	1977	2.8	318	2.3	420	2.3	516	0.8	596
	1978	0.8	307	0.5	382	0.3	487	0.3	637
	1979	1.5	364	0.7	443	0.6	502	0.4	562
	1980	1.4	327	0.7	374	0.6	474	0.5	586
	1981	2.5	346	1.3	419	1.1	513	1.1	551
	1982	2.9	356	1.4	402	0.7	484	0.7	647
	1983	2.3	347	1.6	397	0.9	471	0.6	533
	1984	1.8	362	1.2	441	0.6	537	0.4	582
	1985	1.7	355	1.0	474	0.4	601	0.4	665
	1986	1.7	332	0.8	442	0.4	559	0.3	650
	1987	1.4	350	1.0	406	0.6	523	0.4	631
	1988	1.2	350	0.9	423	0.5	525	0.3	632
Blue crab	1983	0.1	131	0.1	147	<.1	146	<.1	139
	1984	0.1	133	0.1	143	<.1	165	<.1	156
	1985	0.1	130	0.1	144	<.1	151	<.1	151
	1986	<.1	131	0.1	143	<.1	157	<.1	142
	1987	<.1	112	<.1	170	<.1	154	<.1	157
	1988	<.1	112	<.1	144	<.1	164	<.1	155

Table A.7. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Corpus Christi Bay system during spring 1976-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	0.4	386	0.3	448	0.0		0.0	
	1977	0.1	354	0.2	441	<.1	388	0.0	
	1978	0.0		0.3	437	<.1	523	<.1	655
	1979	<.1	432	0.2	466	<.1	415	<.1	689
	1980	0.3	383	0.5	430	0.1	476	0.1	638
	1981	0.1	357	0.1	449	<.1	534	<.1	501
	1982	0.1	426	0.3	451	0.1	513	<.1	568
	1983	0.2	372	0.2	426	<.1	524	<.1	536
	1984	0.2	406	0.4	435	0.2	524	0.1	491
	1985	0.1	429	0.4	452	<.1	549	<.1	518
	1986	0.2	390	0.3	452	0.1	557	<.1	626
	1987	0.2	380	0.2	452	0.1	555	<.1	612
	1988	0.1	396	0.2	452	0.2	572	0.1	637
Spotted seatrout	1976	0.3	322	0.1	496	0.0		0.0	
	1977	0.3	368	<.1	310	<.1	505	0.0	
	1978	0.3	355	0.2	524	<.1	596	<.1	624
	1979	0.1	429	0.1	533	0.1	635	<.1	624
	1980	0.1	435	0.1	539	0.1	561	<.1	499
	1981	0.3	371	0.2	515	<.1	619	<.1	672
	1982	0.4	409	0.3	521	0.1	590	<.1	571
	1983	0.3	407	0.2	528	0.1	610	<.1	610
	1984	0.1	409	0.1	508	<.1	541	<.1	506
	1985	0.2	393	0.1	549	0.1	511	<.1	564
	1986	0.6	381	0.2	534	0.1	557	<.1	566
	1987	0.5	398	0.3	548	0.1	615	<.1	538
	1988	0.4	405	0.3	539	0.1	580	<.1	503

Table A.7. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1976	0.0		0.4	300	0.0		0.3	440
	1977	<.1	225	0.2	291	0.2	386	0.1	427
	1978	<.1	245	0.2	291	0.2	373	0.0	
	1979	<.1	276	<.1	289	0.1	416	<.1	473
	1980	<.1	251	0.1	294	0.1	395	<.1	476
	1981	<.1	239	<.1	308	<.1	387	<.1	572
	1982	0.1	245	0.1	321	0.2	376	<.1	465
	1983	0.1	240	0.3	329	0.3	389	0.2	458
	1984	<.1	348	0.1	370	0.2	416	0.1	463
	1985	<.1	284	0.1	304	<.1	340	<.1	467
	1986	<.1	291	0.2	304	0.1	401	0.2	466
	1987	<.1	373	<.1	404	0.2	454	0.2	475
	1988	<.1	253	0.2	326	0.2	446	0.4	507
Sheepshead	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.1	252	0.1	336
	1978	0.0		<.1	350	<.1	321	0.2	361
	1979	0.0		<.1	283	0.2	352	0.3	378
	1980	0.0		<.1	266	0.1	333	<.1	327
	1981	<.1	242	<.1	288	<.1	318	<.1	381
	1982	<.1	261	<.1	318	0.1	327	0.1	366
	1983	<.1	303	<.1	317	0.2	352	0.1	404
	1984	0.0		<.1	284	0.1	372	0.1	389
	1985	<.1	415	<.1	420	0.1	399	0.1	446
	1986	<.1	338	<.1	378	<.1	375	<.1	407
	1987	<.1	335	<.1	268	<.1	339	<.1	377
	1988	<.1	335	<.1	287	<.1	338	<.1	327

Table A.7. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1		0.0		<.1	430
	1978	0.0		<.1	310	0.1	361	0.0	
	1979	<.1		<.1	317	<.1	372	0.1	409
	1980	0.0		<.1	271	<.1	362	<.1	312
	1981	<.1	266	<.1	312	<.1	390	0.0	
	1982	<.1	212	<.1	319	<.1	376	<.1	420
	1983	<.1	421	<.1	319	<.1	384	<.1	414
	1984	<.1	239	<.1	401	0.1	371	<.1	401
	1985	<.1	282	<.1	306	<.1	365	<.1	408
	1986	<.1	376	<.1	365	<.1	393	<.1	433
	1987	<.1	301	<.1	289	<.1	337	<.1	412
	1988	<.1	381	<.1	302	<.1	370	<.1	377
Atlantic croaker	1976	1.0	277	0.0		0.0		0.0	
	1977	0.9	261	0.1	300	0.0		0.0	
	1978	0.1	246	0.0		0.0		<.1	487
	1979	0.1	265	0.0		0.0		0.0	
	1980	0.1	268	<.1	314	0.0		0.0	
	1981	0.1	269	<.1	221	0.0		0.0	
	1982	0.1	276	<.1	356	<.1	250	<.1	223
	1983	0.2	261	<.1	341	0.0		0.0	
	1984	<.1	279	<.1	305	<.1	185	0.0	
	1985	0.1	264	<.1	320	<.1	223	0.0	
	1986	0.3	254	<.1	335	0.0		0.0	
	1987	<.1	263	<.1	313	0.0		0.0	
	1988	0.1	258	<.1	283	0.0		0.0	

Table A.7. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	0.0		0.0		0.2	266	0.1	265
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		<.1	284
	1980	<.1	312	0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	333	<.1	270	<.1	268	<.1	275
	1983	<.1	391	<.1	291	<.1	381	<.1	242
	1984	0.0		0.0		<.1	247	0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		<.1	231
	1987	0.0		0.0		<.1	261	0.0	
	1988	0.0		0.0		<.1	232	0.0	
Gafftopsail catfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		<.1	357	0.0		<.1	515
	1979	0.0		0.0		0.1	541	0.2	554
	1980	0.0		0.0		<.1	578	0.1	599
	1981	0.0		<.1	472	0.1	520	<.1	548
	1982	0.0		<.1	453	0.1	523	0.1	561
	1983	0.0		<.1	448	<.1	504	0.1	582
	1984	0.0		<.1	439	0.1	506	0.1	564
	1985	0.0		<.1	383	<.1	493	<.1	553
	1986	<.1	376	<.1	470	0.1	525	0.2	559
	1987	0.0		<.1	496	0.1	548	0.1	570
	1988	0.0		<.1	496	0.1	523	0.1	569

Table A.7. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1976	0.0		0.0		0.0		0.0	
	1977	1.7	249	0.4	279	0.4	256	0.2	258
	1978	0.2	258	<.1	319	0.0		0.0	
	1979	0.1	255	0.0		0.0		<.1	250
	1980	<.1	257	0.0		0.0		0.0	
	1981	0.1	242	<.1	306	0.0		<.1	196
	1982	<.1	252	0.0		<.1	226	<.1	266
	1983	<.1	247	<.1	273	<.1	244	0.0	
	1984	<.1	255	<.1	267	<.1	247	<.1	254
	1985	0.4	252	<.1	242	0.1	246	0.1	252
	1986	0.3	252	<.1	255	<.1	285	<.1	259
	1987	0.2	241	<.1	272	<.1	229	<.1	239
	1988	0.1	253	<.1	304	<.1	213	<.1	208
Hardhead catfish	1976	0.6	305	0.0		0.0		0.1	196
	1977	0.6	322	0.4	297	0.1	393	<.1	349
	1978	0.3	294	0.2	337	<.1	292	<.1	364
	1979	0.2	331	0.1	328	<.1	317	<.1	243
	1980	0.3	317	0.1	351	<.1	308	0.0	
	1981	0.3	329	0.2	354	0.1	387	<.1	295
	1982	0.5	326	0.4	362	0.1	363	<.1	351
	1983	0.9	322	0.4	374	0.1	320	<.1	299
	1984	0.7	327	0.5	355	0.1	341	0.1	336
	1985	1.4	331	0.6	360	0.1	356	<.1	324
	1986	0.8	306	0.4	362	0.2	359	<.1	328
	1987	0.3	331	0.4	374	0.1	357	<.1	307
	1988	1.4	325	0.9	374	0.2	368	0.1	341

Table A.7. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		<.1	305	0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	227	<.1	240	<.1	281	<.1	228
	1983	<.1	241	<.1	274	<.1	239	0.0	
	1984	<.1	162	0.0		0.0		0.0	
	1985	<.1	178	0.0		0.0		0.0	
	1986	<.1	168	0.0		0.0		0.0	
	1987	<.1	233	0.0		0.0		0.0	
	1988	0.0		<.1	302	0.0		0.0	
Spot	1976	0.3	233	0.0		0.0		0.0	
	1977	0.6	219	0.0		0.0		0.0	
	1978	0.2	214	<.1		0.0		0.0	
	1979	<.1	233	0.0		0.0		0.0	
	1980	0.1	247	0.0		0.0		0.0	
	1981	<.1	221	<.1	223	0.0		0.0	
	1982	0.1	234	<.1	231	0.0		0.0	
	1983	0.1	233	<.1	267	<.1	227	0.0	
	1984	0.1	248	0.0		0.0		0.0	
	1985	<.1	220	0.0		0.0		0.0	
	1986	0.1	216	<.1	204	0.0		0.0	
	1987	<.1	233	0.0		0.0		0.0	
	1988	<.1	234	0.0		0.0		0.0	

Table A.7. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped mullet	1976	0.0		0.0		0.0		0.0	
	1977	0.1	340	0.0		0.0		0.0	
	1978	0.1	316	<.1	446	<.1	419	0.0	
	1979	<.1	318	<.1	427	0.0		0.0	
	1980	0.1	309	<.1	345	0.0		0.0	
	1981	<.1	274	0.1	335	0.0		0.0	
	1982	0.2	338	<.1	402	0.0		<.1	393
	1983	0.1	339	<.1	418	<.1	334	<.1	409
	1984	0.1	331	<.1	381	0.0		0.0	
	1985	0.1	335	<.1	405	0.0		0.0	
	1986	0.1	331	<.1	398	<.1	395	0.0	
	1987	0.1	325	<.1	408	0.0		0.0	
	1988	0.1	339	<.1	406	0.0		0.0	
Other finfishes	1976	0.4	298	1.6	354	0.4	388	0.1	362
	1977	0.2	277	0.4	344	0.1	489	<.1	790
	1978	0.3	287	0.2	323	0.1	344	0.0	
	1979	0.1	319	0.2	341	0.0		<.1	456
	1980	0.1	298	0.1	336	<.1	331	<.1	421
	1981	0.2	295	0.2	336	0.1	376	0.0	
	1982	0.2	398	0.3	418	0.1	470	0.1	553
	1983	0.5	416	0.5	443	0.1	564	<.1	579
	1984	0.2	403	0.8	354	0.1	452	0.1	561
	1985	0.2	329	0.1	384	0.1	559	<.1	691
	1986	0.3	309	0.3	353	0.1	386	<.1	570
	1987	<.1	438	0.2	375	<.1	374	<.1	633
	1988	0.4	283	0.4	344	0.1	458	<.1	540

Table A.7. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1976	2.9	299	2.3	362	0.5	364	0.5	357
	1977	4.6	271	1.7	324	0.9	341	0.4	372
	1978	1.5	285	1.2	376	0.4	379	0.3	437
	1979	0.8	324	0.8	395	0.5	424	0.6	450
	1980	1.0	332	1.0	395	0.4	402	0.3	523
	1981	1.3	314	0.9	377	0.4	444	0.2	471
	1982	1.7	339	1.5	417	0.8	442	0.5	483
	1983	2.4	352	1.7	425	0.9	418	0.6	470
	1984	1.3	357	2.0	386	0.9	432	0.6	464
	1985	2.6	328	1.5	405	0.5	404	0.4	445
	1986	2.8	310	1.8	402	0.8	449	0.6	485
	1987	1.4	343	1.0	441	0.7	485	0.5	500
	1988	2.7	323	1.9	404	1.0	471	0.8	500
Blue crab	1983	<.1	149	0.1	146	<.1	159	<.1	176
	1984	0.1	136	0.1	147	<.1	153	<.1	156
	1985	0.1	140	0.1	150	<.1	156	<.1	155
	1986	<.1	123	<.1	153	<.1	156	<.1	171
	1987	<.1	148	0.1	149	<.1	158	<.1	150
	1988	<.1	139	<.1	139	<.1	152	<.1	145

Table A.8. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the upper Laguna Madre system during spring 1976-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	0.0		0.1	509	0.0		0.0	
	1977	0.0		0.1	414	<.1	535	0.0	
	1978	<.1	442	0.2	454	<.1	610	<.1	671
	1979	<.1	481	0.2	475	0.0		0.0	
	1980	0.4	384	0.4	446	<.1	423	<.1	434
	1981	0.2	385	0.2	421	<.1	620	0.0	
	1982	<.1	431	0.2	447	0.1	559	<.1	595
	1983	<.1	377	0.1	441	<.1	525	<.1	626
	1984	0.1	363	0.1	446	<.1	552	<.1	603
	1985	<.1	419	0.2	484	0.1	556	<.1	549
	1986	0.1	385	0.1	433	0.1	585	<.1	609
	1987	<.1	383	0.2	485	0.2	565	<.1	616
	1988	<.1	438	0.1	478	0.2	575	0.1	644
Spotted seatrout	1976	<.1	405	0.0		0.0		0.0	
	1977	0.8	379	0.4	517	0.1	682	<.1	683
	1978	0.6	456	0.2	502	<.1	665	<.1	670
	1979	0.3	403	0.1	528	<.1	586	<.1	369
	1980	0.3	421	0.1	516	<.1	629	<.1	613
	1981	0.3	411	0.1	402	0.1	542	<.1	347
	1982	0.4	408	0.2	529	0.1	577	<.1	578
	1983	0.3	427	0.3	549	0.1	611	<.1	575
	1984	<.1	419	<.1	494	<.1	627	0.0	
	1985	0.1	388	<.1	472	<.1	663	<.1	540
	1986	0.3	394	0.1	545	<.1	555	<.1	658
	1987	0.2	393	0.1	564	0.1	607	<.1	549
	1988	<.1	403	0.1	535	0.1	654	<.1	625

Table A.8. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black drum	1976	0.0		0.3	329	0.2	367	<.1	455
	1977	0.0		0.1	305	0.2	386	0.1	473
	1978	0.0		<.1	294	<.1	376	0.1	454
	1979	0.0		0.1	299	0.1	418	0.1	478
	1980	<.1	346	0.3	333	0.3	407	0.1	477
	1981	<.1	295	0.2	347	0.6	388	0.3	441
	1982	<.1	250	0.4	307	0.1	425	0.2	476
	1983	<.1	282	0.3	355	0.5	401	0.2	457
	1984	<.1	312	0.2	395	0.2	423	0.2	499
	1985	<.1	262	0.5	305	0.2	383	0.1	508
	1986	<.1	341	0.2	344	0.3	428	0.2	487
	1987	<.1	235	0.2	380	0.4	451	0.5	507
	1988	<.1	244	0.2	336	0.2	419	0.2	492
Sheepshead	1976	0.0		0.0		0.1	339	0.1	395
	1977	0.0		0.0		<.1	336	0.1	386
	1978	0.0		0.0		0.1	366	0.1	416
	1979	0.0		0.0		<.1	360	0.1	375
	1980	0.0		<.1	352	0.1	361	0.1	378
	1981	0.0		<.1	313	<.1	350	0.1	428
	1982	0.0		<.1	327	0.1	351	0.1	373
	1983	<.1	405	<.1	329	0.1	376	0.2	411
	1984	<.1	378	<.1	298	<.1	352	<.1	406
	1985	<.1	438	0.0		<.1	406	<.1	433
	1986	0.0		<.1	313	<.1	416	<.1	436
	1987	0.0		<.1	283	<.1	364	<.1	417
	1988	0.0		<.1	348	<.1	369	<.1	434

Table A.8. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	237	<.1	365	0.0		<.1	411
	1979	<.1	216	<.1	351	0.0		<.1	410
	1980	<.1	230	<.1	262	0.0		<.1	477
	1981	<.1	222	0.1	345	<.1	383	<.1	
	1982	<.1	229	<.1	325	<.1	369	<.1	397
	1983	<.1	261	<.1	333	<.1	371	<.1	432
	1984	0.0		<.1	316	<.1	323	<.1	444
	1985	<.1	246	<.1	333	<.1	374	<.1	418
	1986	<.1	274	<.1	300	<.1	387	<.1	446
	1987	<.1	365	<.1	401	<.1	392	<.1	440
	1988	0.0		<.1	324	<.1	406	<.1	447
Atlantic croaker	1976	0.0		0.0		0.0		0.0	
	1977	0.2	276	0.2	326	0.0		0.0	
	1978	0.1	261	<.1	325	0.0		0.0	
	1979	0.1	283	0.1	314	0.0		0.0	
	1980	0.2	300	0.1	334	0.0		0.0	
	1981	0.2	284	0.2	322	<.1	280	<.1	290
	1982	0.1	295	0.1	331	<.1	336	0.0	
	1983	0.1	281	<.1	321	<.1	340	<.1	240
	1984	<.1	307	<.1	342	<.1	172	0.0	
	1985	0.2	266	<.1	276	<.1	256	<.1	272
	1986	0.2	289	0.1	322	<.1	288	0.0	
	1987	<.1	288	<.1	327	<.1	362	<.1	287
	1988	<.1	282	<.1	342	<.1	392	<.1	332

Table A.8. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	333	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	390	0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		<.1	296	0.0		<.1	230
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		<.1	577	0.0	
	1982	0.0		0.0		<.1	545	<.1	517
	1983	0.0		0.0		<.1	536	<.1	586
	1984	0.0		0.0		<.1	472	0.0	
	1985	0.0		0.0		0.0		<.1	413
	1986	0.0		<.1	374	0.0		0.0	
	1987	0.0		0.0		0.0		<.1	532
	1988	0.0		0.0		0.0		0.0	

Table A.8. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1	282	0.0		0.0	
	1978	1.2	264	<.1	268	<.1	265	<.1	280
	1979	0.2	266	0.0		<.1	179	0.0	
	1980	0.6	266	0.1	296	<.1	232	0.0	
	1981	0.0		<.1	269	<.1	286	<.1	185
	1982	0.3	261	0.1	297	<.1	272	<.1	249
	1983	<.1	272	<.1	336	<.1	306	<.1	298
	1984	<.1	263	<.1	305	<.1	213	<.1	280
	1985	<.1	237	<.1	257	<.1	270	0.0	
	1986	<.1	248	<.1	262	0.0		0.0	
	1987	<.1	171	<.1	308	0.0		0.0	
	1988	<.1	273	<.1	233	0.0		0.0	
Hardhead catfish	1976	0.0		0.0		0.0		0.0	
	1977	0.5	290	0.2	307	0.1	297	0.0	
	1978	0.7	291	0.2	291	0.1	249	<.1	253
	1979	0.2	306	0.1	298	0.1	277	0.0	
	1980	0.2	283	<.1	310	<.1	275	<.1	322
	1981	0.8	299	0.1	261	<.1	258	0.0	
	1982	0.7	307	0.2	349	<.1	304	<.1	311
	1983	1.3	317	0.4	316	0.1	280	0.1	289
	1984	1.0	314	0.3	331	0.1	300	<.1	315
	1985	0.9	307	0.3	316	0.1	284	<.1	279
	1986	0.5	311	0.2	348	0.1	278	<.1	294
	1987	0.3	305	0.2	337	<.1	301	<.1	303
	1988	0.5	313	0.4	350	0.1	306	0.1	291

Table A.8. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	204	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	190	0.0		0.0		0.0	
	1982	<.1	181	<.1	253	<.1	272	0.0	
	1983	<.1	184	<.1	331	<.1	375	0.0	
	1984	0.0		<.1	310	0.0		0.0	
	1985	<.1	181	<.1	144	0.0		0.0	
	1986	<.1	208	<.1	297	0.0		0.0	
	1987	<.1	185	<.1	154	0.0		0.0	
	1988	<.1	162	0.0		0.0		0.0	
Spot	1976	0.0		0.0		0.0		0.0	
	1977	0.2	228	0.0		0.0		0.0	
	1978	0.1	225	<.1	232	0.0		0.0	
	1979	0.1	239	<.1	235	0.0		0.0	
	1980	0.1	236	<.1	220	0.0		0.0	
	1981	0.1	223	0.0		0.0		0.0	
	1982	0.5	231	<.1	238	<.1	278	0.0	
	1983	0.2	228	<.1	271	<.1	194	0.0	
	1984	<.1	233	<.1	261	<.1	222	0.0	
	1985	0.1	219	<.1	242	<.1	230	<.1	212
	1986	0.1	234	<.1	325	0.0		0.0	
	1987	<.1	228	<.1	202	<.1	214	0.0	
	1988	0.1	226	<.1	235	0.0		0.0	

Table A.8. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1976	<.1	375	0.0		0.0		0.0	
	1977	0.1	325	0.1	420	0.0		0.0	
	1978	<.1	331	<.1	316	0.0		0.0	
	1979	<.1	356	<.1	423	0.0		0.0	
	1980	0.1	360	<.1	442	0.0		0.0	
	1981	0.2	340	<.1	421	<.1	413	<.1	285
	1982	0.1	344	<.1	425	<.1	428	0.0	
	1983	0.2	348	0.1	418	0.0		0.0	
	1984	0.5	339	0.1	416	<.1	334	0.0	
	1985	0.1	349	0.1	425	<.1	449	<.1	372
	1986	0.1	355	<.1	431	0.0		0.0	
	1987	<.1	348	0.1	434	0.0		<.1	464
	1988	0.1	337	0.1	423	0.0		<.1	418
Other finfishes	1976	0.0		<.1	275	0.0		<.1	436
	1977	0.1	428	0.3	334	<.1	400	<.1	
	1978	0.1	447	0.3	358	0.1	478	<.1	452
	1979	0.1	326	0.1	343	<.1	345	<.1	383
	1980	<.1	288	0.1	342	<.1	457	<.1	516
	1981	0.1	297	0.3	332	0.1	341	0.0	
	1982	0.1	352	0.1	360	<.1	440	<.1	602
	1983	0.1	348	0.1	377	<.1	405	<.1	426
	1984	0.1	408	0.1	353	<.1	410	<.1	560
	1985	0.2	357	0.1	327	<.1	448	<.1	493
	1986	0.1	427	<.1	401	<.1	620	<.1	654
	1987	<.1	464	<.1	376	<.1	572	<.1	624
	1988	0.1	387	<.1	373	<.1	526	<.1	521

Table A.8. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1976	0.1	390	0.5	373	0.3	355	0.2	415
	1977	1.9	331	1.2	385	0.4	412	0.2	471
	1978	2.8	347	1.1	384	0.4	394	0.3	432
	1979	1.0	332	0.8	379	0.3	371	0.2	416
	1980	1.9	329	1.1	386	0.5	420	0.4	438
	1981	1.7	323	1.2	349	0.9	388	0.4	408
	1982	2.3	324	1.3	382	0.5	446	0.4	467
	1983	2.2	330	1.3	385	0.8	415	0.6	451
	1984	1.8	337	0.8	379	0.4	410	0.3	483
	1985	1.7	310	1.2	362	0.5	411	0.2	464
	1986	1.3	338	0.8	383	0.5	450	0.3	493
	1987	0.7	334	0.9	411	0.8	488	0.7	505
	1988	1.1	333	1.0	392	0.7	483	0.4	505
Blue crab	1983	<.1	138	<.1	164	<.1	164	<.1	168
	1984	0.1	134	0.1	145	<.1	148	<.1	164
	1985	0.1	145	<.1	141	<.1	134	<.1	132
	1986	<.1	138	<.1	146	<.1	154	0.0	
	1987	<.1	122	<.1	144	<.1	147	0.0	
	1988	<.1	80	<.1	140	<.1	171	0.0	

Table A.9. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the lower Laguna Madre system during spring 1976-1987. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1976	0.1	440	1.0	461	0.1	440	0.0	
	1977	0.1	390	0.4	440	0.1	510	<.1	422
	1978	<.1	422	0.4	447	0.1	465	<.1	631
	1979	<.1	385	0.2	445	<.1	556	<.1	512
	1980	0.1	418	0.5	432	<.1	521	<.1	644
	1981	0.3	423	0.5	436	0.1	485	<.1	450
	1982	0.1	444	0.5	466	0.2	539	0.1	616
	1983	0.1	416	0.5	445	0.1	556	0.1	604
	1984	0.1	390	0.2	458	0.2	573	0.1	596
	1985	<.1	415	0.4	467	0.1	582	0.1	619
	1986	0.1	400	0.6	465	0.2	581	0.1	650
	1987	0.2	412	0.5	460	0.3	568	0.2	639
	1988	0.2	385	0.5	450	0.3	572	0.2	629
Spotted seatrout	1976	2.4	406	0.4	502	0.4	658	0.2	590
	1977	1.2	396	0.2	462	0.1	625	<.1	598
	1978	0.7	397	0.3	533	0.2	642	0.1	671
	1979	0.2	387	0.2	527	0.1	663	<.1	724
	1980	0.4	397	0.2	517	0.2	663	0.1	616
	1981	1.3	398	0.4	533	0.4	632	0.1	592
	1982	1.4	413	0.6	515	0.4	594	0.1	613
	1983	0.6	419	0.5	520	0.2	615	<.1	575
	1984	0.3	401	0.2	497	0.1	596	<.1	521
	1985	0.8	408	0.4	533	0.2	622	<.1	564
	1986	0.8	398	0.5	540	0.2	619	<.1	581
	1987	0.8	402	0.6	539	0.3	634	0.1	571
	1988	0.8	415	0.5	520	0.2	640	0.1	615

Table A.9. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1976	0.0		0.2	315	0.6	397	0.2	425
	1977	<.1	438	0.1	347	0.3	403	0.4	483
	1978	0.0		0.3	297	0.2	420	0.4	462
	1979	<.1	330	0.2	311	0.3	407	0.4	477
	1980	<.1	218	0.1	375	0.1	436	0.2	491
	1981	0.1	311	0.2	324	0.3	409	0.3	465
	1982	0.1	273	0.5	323	0.3	457	0.4	480
	1983	<.1	312	0.3	387	0.8	419	0.4	510
	1984	<.1	240	0.1	382	0.2	455	0.3	496
	1985	<.1	371	0.3	316	0.1	424	0.1	500
	1986	<.1	292	0.1	354	0.1	480	0.2	507
	1987	<.1	422	<.1	345	0.2	446	0.2	501
	1988	<.1	326	0.1	328	0.1	490	0.2	514
Sheepshead	1976	0.0		0.0		0.3	317	0.0	
	1977	0.0		0.0		<.1	314	<.1	422
	1978	<.1	342	<.1	375	0.1	343	0.1	372
	1979	0.0		<.1	323	0.1	365	0.1	317
	1980	0.0		<.1	219	0.1	333	0.2	381
	1981	0.0		<.1	270	0.2	322	0.3	336
	1982	<.1	276	0.1	299	0.3	322	0.2	368
	1983	<.1	300	0.1	305	0.2	332	0.1	376
	1984	0.0		<.1	300	0.1	339	0.1	380
	1985	0.0		<.1	306	<.1	349	<.1	371
	1986	<.1	534	<.1	295	<.1	344	<.1	406
	1987	0.0		<.1	286	0.1	346	0.1	420
	1988	0.0		<.1	290	<.1	367	<.1	408

Table A.9. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern flounder	1976	0.0		0.0		0.2	350	0.0	
	1977	0.0		0.0		<.1	323	<.1	388
	1978	<.1	216	<.1	363	<.1	335	<.1	467
	1979	<.1	328	0.1	341	0.1	385	<.1	436
	1980	<.1	299	<.1	346	<.1	361	<.1	518
	1981	<.1	270	<.1	287	<.1	402	<.1	418
	1982	<.1	310	0.1	320	<.1	356	<.1	445
	1983	<.1	350	<.1	330	<.1	372	<.1	417
	1984	<.1	204	0.0		<.1	386	<.1	470
	1985	<.1	342	<.1	315	<.1	346	<.1	404
	1986	<.1	379	<.1	326	0.1	361	<.1	434
	1987	<.1	520	<.1	360	<.1	372	<.1	436
	1988	<.1	376	<.1	325	<.1	375	<.1	419
Atlantic croaker	1976	0.2	285	0.5	345	0.1	360	0.0	
	1977	0.2	267	<.1	300	0.0		0.0	
	1978	0.1	276	0.0		0.0		0.0	
	1979	0.1	262	0.1	350	<.1	412	0.0	
	1980	0.1	277	<.1	354	0.0		0.0	
	1981	0.1	277	0.0		0.0		0.0	
	1982	0.2	300	0.2	367	<.1	422	<.1	343
	1983	0.2	274	0.1	374	<.1	432	0.0	
	1984	<.1	264	<.1	328	0.0		0.0	
	1985	0.1	260	<.1	355	<.1	210	0.0	
	1986	0.1	288	<.1	289	0.0		0.0	
	1987	<.1	246	<.1	312	<.1	260	0.0	
	1988	<.1	296	0.0		0.0		0.0	

Table A.9. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		<.1	245	0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	321	0.0		<.1	269	0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		<.1	308	<.1	230
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		<.1	238	0.0	
Gafftopsail catfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		<.1	471	0.0		<.1	272
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		<.1	211	0.0	
	1985	<.1	364	0.0		<.1	455	<.1	235
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		<.1	518
	1988	0.0		<.1	332	<.1	525	0.0	

Table A.9. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1976	0.0		0.0		0.0		0.0	
	1977	<.1	229	0.0		0.0		0.0	
	1978	<.1	246	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	261	<.1	212	<.1	316	0.0	
	1981	<.1		<.1	254	<.1	233	0.0	
	1982	<.1	269	<.1	330	<.1	264	<.1	243
	1983	0.1	246	<.1	345	<.1	236	<.1	232
	1984	<.1	236	0.0		<.1	269	<.1	275
	1985	0.7	254	<.1	300	<.1	271	<.1	249
	1986	<.1	242	<.1	352	<.1	245	0.0	
	1987	<.1	249	<.1	330	0.0		<.1	240
	1988	<.1	261	<.1	326	<.1	242	0.0	
Hardhead catfish	1976	0.2	310	0.1	380	0.0		0.0	
	1977	0.2	303	0.1	341	0.1	339	<.1	277
	1978	0.3	307	0.2	349	0.1	236	<.1	314
	1979	0.1	321	0.1	275	0.1	261	<.1	320
	1980	0.3	322	0.2	368	0.1	293	<.1	326
	1981	0.5	307	0.1	344	<.1	336	0.0	
	1982	1.0	321	0.5	358	0.2	340	0.1	338
	1983	1.0	325	0.6	357	0.2	346	0.1	324
	1984	0.6	318	0.6	356	0.2	323	0.1	332
	1985	0.4	322	0.4	362	<.1	319	0.1	327
	1986	0.7	343	0.5	386	0.2	383	0.1	381
	1987	0.7	347	0.6	388	0.2	406	0.1	368
	1988	0.5	356	0.7	371	0.2	395	0.1	344

Table A.9. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	165	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	200	0.0		0.0		0.0	
	1982	<.1	220	0.0		0.0		0.0	
	1983	<.1	201	<.1	190	0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	<.1	167	<.1	160	0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	<.1	184	0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1976	0.1	230	0.0		0.0		0.0	
	1977	0.1	215	0.0		0.0		0.0	
	1978	0.1	234	0.0		0.0		0.0	
	1979	0.1	245	<.1	272	0.0		0.0	
	1980	<.1	234	0.0		0.0		0.0	
	1981	<.1	241	0.0		0.0		0.0	
	1982	0.1	236	0.0		<.1	278	0.0	
	1983	0.1	238	<.1	282	<.1	194	0.0	
	1984	<.1	238	0.0		0.0		0.0	
	1985	<.1	240	0.0		<.1	230	0.0	
	1986	<.1	230	0.0		0.0		0.0	
	1987	<.1	236	0.0		0.0		0.0	
	1988	<.1	232	0.0		0.0		0.0	

Table A.9. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped mullet	1976	0.0		0.0		0.0		0.0	
	1977	0.2	330	<.1	404	0.0		0.0	
	1978	0.1	334	<.1	420	<.1		0.0	
	1979	0.1	330	<.1	406	0.0		<.1	392
	1980	0.2	344	0.1	387	0.0		0.0	
	1981	0.2	346	<.1	412	0.0		0.0	
	1982	0.2	348	<.1	417	<.1	434	0.0	
	1983	0.2	350	0.1	420	<.1	404	0.0	
	1984	0.4	333	0.1	409	0.0		0.0	
	1985	0.1	334	<.1	419	0.0		<.1	263
	1986	0.1	332	<.1	382	0.0		0.0	
	1987	0.2	331	<.1	420	0.0		0.0	
	1988	0.1	338	<.1	422	<.1	526	0.0	
Other finfishes	1976	0.0		0.0		0.0		0.0	
	1977	0.1	400	0.2	371	<.1	398	<.1	517
	1978	0.3	434	0.4	358	0.2	378	<.1	875
	1979	<.1	525	0.1	386	0.1	442	0.1	452
	1980	<.1	428	0.1	409	0.1	497	<.1	813
	1981	0.2	415	0.2	368	0.1	510	0.1	436
	1982	0.2	398	0.4	377	0.1	493	0.1	490
	1983	0.2	379	0.2	363	0.1	456	0.1	509
	1984	0.1	468	0.1	382	0.1	544	<.1	634
	1985	0.2	410	0.1	352	0.1	552	<.1	610
	1986	0.2	378	0.1	408	0.1	508	<.1	642
	1987	0.1	395	0.1	356	<.1	428	<.1	503
	1988	0.1	424	0.1	367	0.1	554	0.1	629

Table A.9. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1976	2.9	389	2.2	428	1.7	442	0.3	508
	1977	2.1	362	1.0	402	0.7	424	0.5	485
	1978	1.7	352	1.7	399	0.9	432	0.7	521
	1979	0.8	345	1.0	402	0.8	440	0.7	465
	1980	1.2	352	1.1	416	0.7	480	0.6	502
	1981	2.9	367	1.7	420	1.2	466	0.8	431
	1982	3.4	351	3.0	386	1.6	456	0.9	476
	1983	2.4	354	2.4	410	1.7	448	1.0	477
	1984	1.6	354	1.4	407	0.9	463	0.7	487
	1985	2.5	324	1.7	412	0.7	480	0.4	473
	1986	2.1	361	1.8	436	0.9	508	0.4	522
	1987	2.0	372	2.0	436	1.2	501	0.7	503
	1988	1.8	374	2.0	416	1.0	530	0.6	533
Blue crab	1983	<.1	133	0.1	147	<.1	154	<.1	158
	1984	0.1	127	0.1	145	<.1	157	<.1	132
	1985	<.1	155	0.1	157	<.1	161	<.1	153
	1986	<.1	140	<.1	150	<.1	156	<.1	126
	1987	<.1	141	<.1	145	<.1	157	<.1	126
	1988	<.1	143	<.1	155	<.1	155	<.1	155

Table A.10. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Sabine Lake system during fall 1986-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1986	0.2	368	0.1	464	0.1	594	0.1	660
	1987	0.2	353	0.1	456	0.1	585	<.1	672
	1988	0.3	368	<.1	502	<.1	553	<.1	661
Spotted seatrout	1986	0.1	372	<.1	490	<.1	420	0.0	
	1987	0.1	384	<.1	494	<.1	499	0.0	
	1988	<.1	380	<.1	517	0.0		0.0	
Black drum	1986	0.1	245	0.1	332	0.1	386	0.1	475
	1987	<.1	255	0.1	321	0.1	389	0.1	457
	1988	0.1	227	<.1	341	0.1	403	<.1	481
Sheepshead	1986	<.1	258	<.1	400	<.1	302	0.0	
	1987	0.0		0.0		<.1	376	<.1	416
	1988	0.0		0.0		0.0		0.0	
Southern flounder	1986	<.1	238	<.1	286	<.1	321	<.1	354
	1987	<.1	276	<.1	294	<.1	383	<.1	402
	1988	0.0		<.1	337	<.1	357	<.1	398
Atlantic croaker	1986	0.1	280	<.1	334	0.0		<.1	255
	1987	0.1	272	<.1	331	<.1	322	<.1	260
	1988	<.1	273	<.1	306	0.0		0.0	
Sand seatrout	1986	<.1	308	<.1	249	<.1	275	0.0	
	1987	<.1	300	0.0		0.0		0.0	
	1988	0.0		<.1	226	0.0		0.0	
Gafftopsail catfish	1986	<.1	359	<.1	453	<.1	508	<.1	491
	1987	<.1	332	<.1	469	<.1	311	<.1	489
	1988	<.1	326	<.0		<.1	424	0.0	

Table A.10. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1986	0.1	237	<.1	294	<.1	213	<.1	227
	1987	0.1	245	<.1	236	0.0		0.0	
	1988	0.1	252	<.1	328	0.0		0.0	
Hardhead catfish	1986	0.1	331	<.1	320	<.1	374	<.1	370
	1987	0.1	323	<.1	287	<.1	316	0.0	
	1988	0.2	314	<.1	324	0.0		0.0	
Pinfish	1986	<.1	51	0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1986	0.1	233	0.0				0.0	
	1987	0.1	234	<.1	210	0.0		0.0	
	1988	0.1	237	0.0		0.0		0.0	
Striped mullet	1986	<.1	322	<.1	359	0.0		0.0	
	1987	<.1	325	0.0		0.0		0.0	
	1988	<.1	325	<.1	378	0.0		0.0	
Other finfishes	1986	0.4	333	0.2	422	0.1	924	0.1	1023
	1987	0.3	452	0.3	460	0.1	897	0.1	978
	1988	0.3	382	0.1	411	0.1	789	<.1	924
Total finfishes	1986	1.3	314	0.6	392	0.4	506	0.2	641
	1987	1.1	349	0.6	421	0.3	566	0.2	665
	1988	1.3	318	0.9	368	0.2	560	0.1	643
Blue crab	1986	0.1	141	0.1	158	<.1	155	<.1	149
	1987	0.1	149	0.1	158	0.1	151	<.1	142
	1988	0.1	153	0.1	158	<.1	152	<.1	161

Table A.11. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Galveston Bay system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.6	375	0.4	427	<.1	563	<.1	620
	1976	<.1	401	0.3	413	0.3	546	0.3	597
	1977	0.2	390	0.2	431	0.1	525	<.1	660
	1978	0.2	358	0.1	422	<.1	536	<.1	633
	1979	0.6	368	0.1	446	<.1	587	<.1	622
	1980	0.3	368	0.1	460	0.1	572	<.1	608
	1981	0.3	365	0.1	465	0.1	549	<.1	622
	1982	0.4	381	0.1	454	0.1	578	<.1	610
	1983	0.4	385	0.1	463	0.1	565	<.1	628
	1984	0.4	382	0.2	449	0.1	588	0.1	646
	1985	0.5	344	0.2	437	0.1	591	0.1	634
	1986	0.2	374	0.3	456	0.2	590	<.1	661
	1987	0.2	360	0.2	471	0.1	583	<.1	611
	1988	0.3	343	0.2	447	<.1	578	<.1	661
Spotted seatrout	1975	0.1	372	<.1	540	<.1	619	<.1	465
	1976	0.2	387	0.1	476	0.1	607	0.0	
	1977	0.1	412	0.1	509	<.1	578	<.1	649
	1978	<.1	377	0.1	518	0.1	608	<.1	670
	1979	0.1	403	<.1	496	<.1	591	<.1	711
	1980	0.2	410	0.1	510	<.1	635	<.1	709
	1981	0.1	408	0.1	539	<.1	617	<.1	593
	1982	0.2	401	0.1	535	<.1	592	0.0	
	1983	0.2	396	0.1	534	<.1	612	<.1	596
	1984	0.2	398	0.1	532	<.1	616	<.1	609
	1985	0.2	390	0.1	534	<.1	627	<.1	513
	1986	0.2	386	0.1	529	<.1	592	<.1	649
	1987	0.1	384	0.1	513	<.1	627	<.1	700
	1988	0.4	392	0.1	514	<.1	616	0.0	

Table A.11. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black drum	1975	0.2	220	0.2	360	<.1	668	<.1	581
	1976	0.1	219	0.1	278	0.1	408	0.1	453
	1977	<.1	210	0.1	318	0.2	382	0.1	500
	1978	0.0		0.1	317	0.2	398	0.1	444
	1979	<.1	240	<.1	313	<.1	438	0.1	489
	1980	<.1	304	0.3	328	0.2	426	0.2	472
	1981	<.1	287	0.1	356	0.1	440	0.1	481
	1982	0.1	260	0.3	327	0.2	391	0.1	469
	1983	<.1	294	0.1	334	<.1	409	0.1	462
	1984	0.1	245	0.1	335	0.2	426	0.2	483
	1985	0.1	234	0.2	328	0.3	409	0.2	484
	1986	0.1	226	0.1	343	0.3	396	0.2	471
	1987	0.1	220	0.1	373	0.1	406	0.1	485
	1988	0.1	230	0.1	326	0.1	412	0.1	447
Sheepshead	1975	0.0		0.0		<.1	358	<.1	432
	1976	0.0		<.1	308	<.1	309	<.1	386
	1977	0.0		0.0		<.1	354	<.1	340
	1978	<.1	383	<.1	238	<.1	286	<.1	346
	1979	0.0		<.1	225	<.1	337	<.1	427
	1980	<.1	150	<.1	234	<.1	324	<.1	339
	1981	<.1	338	<.1	254	<.1	340	<.1	360
	1982	<.1	320	<.1	301	<.1	314	<.1	359
	1983	<.1	366	<.1	218	<.1	338	<.1	368
	1984	<.1	243	0.0		<.1	355	<.1	390
	1985	0.0		<.1	354	<.1	369	<.1	401
	1986	<.1	398	<.1	254	<.1	339	<.1	399
	1987	<.1	396	<.1	281	<.1	358	<.1	438
	1988	0.0		0.0		<.1	348	<.1	390

Table A.11. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	<.1	245	0.0		<.1	352	0.0	
	1976	<.1	385	<.1	270	<.1	364	<.1	421
	1977	0.1	277	0.1	312	0.1	352	<.1	391
	1978	0.0		<.1	328	<.1	362	<.1	475
	1979	<.1	272	<.1	253	<.1	478	<.1	420
	1980	<.1	354	<.1	304	0.1	373	<.1	385
	1981	<.1	290	<.1	294	<.1	336	<.1	428
	1982	<.1	351	0.1	313	<.1	361	<.1	379
	1983	<.1	272	<.1	339	<.1	350	<.1	412
	1984	<.1	270	<.1	319	<.1	370	<.1	378
	1985	<.1	250	<.1	319	<.1	363	<.1	402
	1986	<.1	280	<.1	336	<.1	386	<.1	427
	1987	<.1	277	<.1	303	<.1	358	<.1	422
	1988	<.1	270	<.1	311	<.1	382	<.1	405
Atlantic croaker	1975	<.1	245	0.0		0.0		0.0	
	1976	0.2	260	<.1	328	0.0		0.0	
	1977	0.1	261	<.1	321	<.1	388	0.0	
	1978	0.1	270	<.1	320	0.0		0.0	
	1979	<.1	268	<.1	280	0.0		0.0	
	1980	0.2	276	<.1	316	0.0		0.0	
	1981	0.2	271	<.1	342	<.1	324	<.1	263
	1982	0.3	274	<.1	329	<.1	312	0.0	
	1983	0.2	272	<.1	336	<.1	302	<.1	261
	1984	0.2	270	<.1	329	<.1	280	0.0	
	1985	0.5	264	0.1	332	<.1	231	<.1	289
	1986	0.4	274	<.1	337	<.1	265	0.0	
	1987	0.6	274	0.1	328	<.1	252	0.0	
	1988	0.4	279	0.1	327	0.0		0.0	

Table A.11. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	<.1	319	<.1	302	0.0		0.1	308
	1976	0.1	298	<.1	296	<.1	273	<.1	285
	1977	<.1	355	<.1	286	<.1	306	<.1	300
	1978	0.0		0.0		0.0		<.1	303
	1979	0.0		0.0		<.1	211	<.1	266
	1980	<.1	300	<.1	298	<.1	305	<.1	302
	1981	<.1	281	<.1	223	<.1	260	<.1	322
	1982	<.1	322	<.1	267	<.1	305	<.1	279
	1983	<.1	323	<.1	285	<.1	294	<.1	289
	1984	<.1	324	<.1	277	<.1	289	<.1	259
	1985	<.1	296	<.1	272	<.1	270	<.1	286
	1986	<.1	334	<.1	296	<.1	283	<.1	302
	1987	<.1	317	<.1	275	<.1	271	<.1	264
	1988	<.1	321	<.1	296	<.1	288	<.1	273
Gafftopsail catfish	1975	0.0		0.0		0.0		0.0	
	1976	0.0		<.1	395	<.1	498	<.1	487
	1977	0.0		0.0		<.1	444	<.1	540
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		<.1	527	0.1	562
	1981	<.1	347	<.1	454	<.1	514	<.1	547
	1982	<.1	292	<.1	419	<.1	508	<.1	440
	1983	0.0		<.1	468	<.1	498	<.1	506
	1984	0.0		<.1	447	<.1	515	<.1	549
	1985	0.0		<.1	457	<.1	525	<.1	568
	1986	0.0		<.1	434	<.1	551	<.1	558
	1987	<.1	176	<.1	397	<.1	508	<.1	542
	1988	0.0		<.1	482	<.1	532	<.1	574

Table A.11. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	238	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	157	0.0		0.0		0.0	
	1981	<.1	212	<.1	269	0.0		0.0	
	1982	<.1	207	0.0		0.0		0.0	
	1983	<.1	192	<.1		0.0		0.0	
	1984	<.1	154	0.0		0.0		0.0	
	1985	<.1	192	0.0		0.0		0.0	
	1986	<.1	195	<.1	229	0.0		0.0	
	1987	<.1	176	0.0		0.0		0.0	
	1988	<.1	204	0.0		0.0		0.0	
Spot	1975	0.0		0.0		0.0		0.0	
	1976	0.4	236	<.1	230	0.0		0.0	
	1977	0.2	234	0.0		0.0		0.0	
	1978	0.1	226	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.1	235	0.0		0.0		0.0	
	1981	0.1	240	0.0		0.0		0.0	
	1982	0.3	238	<.1	252	0.0		0.0	
	1983	0.2	242	0.0		0.0		0.0	
	1984	0.1	238	<.1	264	0.0		0.0	
	1985	0.3	233	0.0		0.0		0.0	
	1986	0.2	238	<.1	175	0.0		0.0	
	1987	0.2	234	<.1	267	0.0		0.0	
	1988	0.2	236	0.0		0.0		0.0	

Table A.11. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1975	0.3	331	0.0		0.0		0.0	
	1976	0.2	310	0.1	396	<.1	419	0.0	
	1977	0.1	320	<.1	414	0.0		0.0	
	1978	0.1	317	<.1	400	0.1	535	0.0	
	1979	<.1	334	<.1	450	0.0		0.0	
	1980	0.1	342	<.1	409	<.1	315	<.1	576
	1981	<.1	346	<.1	432	<.1	451	<.1	600
	1982	0.2	328	<.1	426	<.1	565	<.1	530
	1983	0.1	339	<.1	434	<.1	505	0.0	
	1984	0.3	336	0.1	433	<.1	516	0.0	
	1985	0.1	327	<.1	405	0.0		0.0	
	1986	0.1	324	<.1	427	<.1	515	<.1	607
	1987	0.2	334	<.1	448	<.1	528	<.1	625
	1988	0.2	331	0.1	414	0.0		0.0	
Other finfishes	1975	0.5	360	0.6	373	0.2	938	0.1	1032
	1976	0.4	273	0.5	378	0.1	573	0.1	838
	1977	0.1	510	0.2	423	0.1	453	0.1	982
	1978	0.1	284	0.4	321	<.1	348	<.1	225
	1979	0.3	356	0.3	366	<.1	822	<.1	1324
	1980	0.2	299	0.2	377	<.1	578	<.1	445
	1981	0.4	314	0.5	345	<.1	670	<.1	1022
	1982	0.4	308	0.6	368	0.1	453	<.1	746
	1983	0.5	330	0.6	432	0.1	488	<.1	852
	1984	0.5	340	0.6	402	0.1	533	<.1	807
	1985	0.4	294	0.5	371	<.1	661	<.1	938
	1986	0.2	309	0.5	360	<.1	522	<.1	792
	1987	0.2	291	0.6	361	<.1	442	<.1	769
	1988	0.3	292	0.7	356	<.1	414	<.1	564

Table A.11. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1975	2.7	331	1.6	377	0.4	679	0.3	613
	1976	3.5	270	1.8	358	1.0	420	0.9	437
	1977	4.0	285	1.2	369	0.6	417	0.4	583
	1978	2.1	292	1.1	359	0.6	438	0.2	481
	1979	2.0	344	1.1	383	0.2	429	0.1	475
	1980	1.7	321	1.2	369	0.6	439	0.5	464
	1981	2.5	313	1.1	379	0.4	480	0.2	546
	1982	3.9	316	1.5	372	0.6	430	0.3	465
	1983	4.0	318	1.3	391	0.5	445	0.2	458
	1984	4.1	323	1.5	404	0.6	467	0.3	502
	1985	4.3	290	1.6	368	0.7	445	0.4	475
	1986	3.6	299	1.4	393	0.6	448	0.3	515
	1987	3.8	296	1.4	378	0.5	441	0.2	477
	1988	3.7	305	1.6	382	0.5	458	0.4	430
Blue crab	1983	0.1	134	0.1	140	<.1	135	<.1	130
	1984	<.1	141	<.1	158	<.1	169	<.1	156
	1985	<.1	150	<.1	154	<.1	131	<.1	152
	1986	<.1	143	<.1	144	<.1	147	<.1	198
	1987	<.1	153	<.1	150	<.1	123	<.1	128
	1988	<.1	143	<.1	145	<.1	145	0.0	

Table A.12. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the East Matagorda Bay system during fall 1975-1988. Blank indicates no measurement taken; ND = no data.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	ND		ND		ND		ND	
	1976	0.1	326	0.4	463	0.5	531	0.1	601
	1977	0.7	348	0.1	442	0.1	551	<.1	662
	1978	0.5	352	0.1	390	0.1	479	0.0	
	1979	0.4	373	0.2	419	0.1	498	<.1	538
	1980	0.3	353	0.1	448	0.2	584	0.1	592
	1981	0.5	378	<.1	408	<.1	472	<.1	637
	1982	0.7	358	0.1	542	0.1	539	<.1	560
	1983	0.6	351	0.1	456	0.1	566	<.1	647
	1984	0.2	376	0.1	479	0.4	577	0.3	653
	1985	0.7	350	0.2	423	0.2	525	0.2	618
	1986	0.4	336	0.1	501	0.2	580	0.1	610
	1987	0.4	339	0.2	482	0.2	543	0.1	584
	1988	0.4	363	0.5	488	0.3	579	0.2	620
Spotted seatrout	1975	ND		ND		ND		ND	
	1976	0.3	376	0.4	460	0.1	582	0.0	
	1977	0.1	382	0.1	534	<.1	555	<.1	536
	1978	0.2	366	0.1	458	<.1	542	0.0	
	1979	0.1	374	<.1	506	0.0		<.1	
	1980	0.1	413	<.1	455	<.1	400	<.1	366
	1981	0.6	397	0.1	488	<.1	586	0.0	
	1982	0.2	418	0.1	511	<.1	601	<.1	548
	1983	0.5	407	<.1	543	<.1	558	0.0	
	1984	0.2	424	0.1	508	<.1	454	<.1	488
	1985	0.2	374	0.1	509	<.1	584	0.0	
	1986	0.3	395	0.1	504	<.1	594	<.1	406
	1987	0.3	396	0.1	510	<.1	517	<.1	530
	1988	0.5	410	0.1	504	<.1	520	0.0	

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1975	ND		ND		ND		ND	
	1976	0.1	221	0.3	290	0.2	343	0.1	442
	1977	<.1	313	0.2	324	0.2	400	0.1	425
	1978	0.2	235	0.3	330	0.4	372	0.1	462
	1979	<.1	894	<.1	306	0.1	401	<.1	496
	1980	<.1	253	0.5	298	0.2	374	0.1	480
	1981	0.1	253	0.2	310	0.1	374	0.1	441
	1982	0.1	271	1.3	321	0.7	373	0.2	439
	1983	0.2	232	0.3	342	0.2	415	0.2	460
	1984	0.2	249	0.1	303	0.2	414	0.2	476
	1985	<.1	218	0.3	319	0.2	388	0.1	457
	1986	0.2	236	0.2	307	0.1	394	0.1	434
	1987	0.1	265	0.4	339	0.7	382	0.3	439
	1988	0.1	223	0.3	300	0.3	403	0.3	476
Sheepshead	1975	ND		ND		ND		ND	
	1976	<.1	203	0.0		0.2	286	<.1	406
	1977	0.0		0.1	261	0.2	304	0.1	370
	1978	0.0		<.1	259	0.1	286	0.1	362
	1979	<.1	350	<.1	377	0.2	340	<.1	386
	1980	0.0		<.1	239	<.1	315	<.1	360
	1981	0.0		0.1	224	<.1	292	<.1	382
	1982	0.0		<.1	300	0.1	303	0.1	368
	1983	0.0		0.1	278	0.2	347	0.2	373
	1984	<.1	416	<.1	407	0.1	371	0.2	389
	1985	0.0		<.1	342	0.1	372	0.1	396
	1986	0.0		<.1	251	<.1	280	<.1	366
	1987	0.0		<.1	347	<.1	361	0.1	369
	1988	0.0		<.1	286	<.1	330	<.1	398

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	ND		ND		ND		ND	
	1976	<.1	328	0.2	274	0.3	332	0.1	429
	1977	<.1	207	0.1	317	0.1	337	0.1	406
	1978	<.1	290	<.1	372	<.1	368	<.1	437
	1979	<.1	323	<.1	271	<.1	369	<.1	530
	1980	<.1	250	0.1	341	0.1	365	0.1	428
	1981	<.1	321	<.1	296	<.1	367	<.1	385
	1982	0.0		0.1	298	0.1	347	0.1	399
	1983	<.1	237	0.1	326	0.1	362	0.1	390
	1984	<.1	292	0.1	319	0.1	379	<.1	418
	1985	<.1	338	0.1	326	0.1	374	0.1	391
	1986	<.1	371	<.1	320	<.1	396	<.1	423
	1987	<.1	380	0.1	323	<.1	347	<.1	410
	1988	<.1	350	0.1	323	<.1	366	<.1	395
Atlantic croaker	1975	ND		ND		ND		ND	
	1976	0.1	248	0.0		0.0		0.0	
	1977	0.1	276	0.0		0.0		0.0	
	1978	0.1	248	0.0		0.0		0.0	
	1979	0.2	243	<.1	335	0.0		0.0	
	1980	0.1	258	<.1	310	0.0		0.0	
	1981	0.2	254	0.0		0.0		0.0	
	1982	0.4	256	0.0		0.0		0.0	
	1983	0.4	261	<.1	276	0.0		0.0	
	1984	0.2	257	<.1	295	<.1	240	0.0	
	1985	0.4	257	<.1	276	0.0		<.1	243
	1986	0.1	258	<.1	314	0.0		0.0	
	1987	0.1	252	0.0		0.0	271	0.0	
	1988	0.1	269	0.0		0.0		0.0	

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	ND		ND		ND		ND	
	1976	0.1	302	<.1	261	0.0		<.1	302
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		<.1		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		<.1	222	<.1	268
	1982	<.1	225	0.0		<.1	249	<.1	260
	1983	0.0		<.1	206	<.1	242	<.1	244
	1984	<.1	312	0.0		<.1	316	0.0	
	1985	0.0		<.1	255	0.0		0.0	
	1986	0.0		<.1	228	0.0		<.1	263
	1987	0.0		<.0	220	0.0		<.1	221
	1988	0.0		<.1	198	0.0		0.0	
Gafftopsail catfish	1975	ND		ND		ND		ND	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		<.1	435	<.1	547	<.1	551
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		<.1	616
	1983	<.1	396	0.1	464	<.1	495	<.1	509
	1984	<.1	420	<.1	461	<.1	466	<.1	535
	1985	0.0		<.1	449	<.1	485	<.1	549
	1986	0.0		<.1	412	<.1	510	<.1	536
	1987	0.0		<.1	484	<.1	500	<.1	590
	1988	0.0		<.1	533	<.1	535	0.0	

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1975	ND		ND		ND		ND	
	1976	<.1		0.0		0.0		<.1	270
	1977	0.0		<.1	281	<.1	237	0.0	
	1978	0.4	241	0.1	275	0.0		0.0	
	1979	<.1	240	0.0		<.1	220	<.1	212
	1980	<.1		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		<.1	310	<.1		0.0	
	1983	0.1	245	<.1	276	0.0		0.0	
	1984	0.1	248	<.1	264	<.1	271	0.0	
	1985	<.1	233	0.0		0.0		0.0	
	1986	0.1	235	<.1	276	<.1	151	0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		<.1	235	0.0		0.0	
Hardhead catfish	1975	ND		ND		ND		ND	
	1976	<.1	322	0.0		0.0		0.0	
	1977	0.2	319	0.1	352	<.1	375	0.0	
	1978	0.1	308	0.0		<.1	260	0.0	
	1979	0.1	327	0.1	356	0.0		0.0	
	1980	0.3	319	0.1	367	0.0		<.1	382
	1981	0.2	322	<.1	300	<.1	350	0.0	
	1982	0.2	336	0.1	332	<.1	330	<.1	331
	1983	0.2	330	0.1	358	<.1	260	<.1	340
	1984	0.8	316	0.2	361	<.1	306	0.0	
	1985	0.2	315	0.2	352	<.1	308	<.1	304
	1986	0.3	326	0.2	370	<.1	316	<.1	314
	1987	0.3	318	0.2	333	<.1	292	<.1	305
	1988	0.5	326	0.4	358	0.1	318	<.1	306

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	ND		ND		ND		ND	
	1976	<.1	155	<.1	244	0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	168	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	<.1	227	0.0		0.0		0.0	
	1983	<.1	202	0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	<.1	170	0.0		0.0		0.0	
	1986	<.1	211	0.0		0.0		0.0	
	1987	<.1	226	0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Spot	1975	ND		ND		ND		ND	
	1976	<.1	226	<.1	294	0.0		0.0	
	1977	<.1	240	<.1	291	0.0		0.0	
	1978	0.2	234	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	222	0.0		0.0		0.0	
	1981	0.2	237	0.0		0.0		0.0	
	1982	<.1	246	0.0		0.0		0.0	
	1983	0.2	242	<.1	324	0.0		0.0	
	1984	0.1	242	0.0		0.0		0.0	
	1985	<.1	229	0.0		0.0		0.0	
	1986	0.1	239	0.0		0.0		0.0	
	1987	<.1	230	0.0		0.0		0.0	
	1988	<.1	236	0.0		0.0		0.0	

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1975	ND		ND		ND		ND	
	1976	0.2	317	<.1	360	0.0		0.0	
	1977	0.2	324	0.1	453	<.1	508	0.0	
	1978	0.5	313	0.1	404	<.1	512	0.0	
	1979	0.1	329	<.1	410	0.0		0.0	
	1980	<.1	319	0.0		0.0		0.0	
	1981	0.1	333	<.1	436	0.0		0.0	
	1982	0.4	318	<.1	405	<.1	552	0.0	
	1983	0.2	335	0.0		<.1		0.0	
	1984	0.6	318	<.1	403	<.1	461	0.0	
	1985	0.2	319	<.1	409	<.1	520	0.0	
	1986	0.3	321	<.1	425	0.0		0.0	
	1987	0.3	317	0.1	404	<.1	620	0.0	
	1988	0.3	324	0.1	415	0.0		0.0	
Other finfishes	1975	ND		ND		ND		ND	
	1976	<.1	286	0.1	331	0.0		0.0	
	1977	0.1	255	0.1	339	0.0		<.1	892
	1978	0.1	267	0.1	346	0.0		<.1	254
	1979	<.1	540	0.0		0.0		0.0	
	1980	0.1	262	<.1	297	0.0		<.1	810
	1981	0.3	285	0.1	478	<.1	666	<.1	
	1982	0.4	283	0.1	331	<.1	519	<.1	477
	1983	1.3	269	0.4	328	<.1	353	<.1	418
	1984	0.6	284	0.2	348	<.1	444	<.1	687
	1985	0.3	299	0.2	353	<.1	551	<.1	1005
	1986	0.5	359	0.4	403	0.1	722	0.1	901
	1987	0.1	444	0.2	357	<.1	374	<.1	742
	1988	0.3	412	0.2	367	0.1	663	<.1	666

Table A.12. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1975	ND		ND		ND		ND	
	1976	1.1	303	1.4	388	1.2	437	0.3	449
	1977	1.4	325	0.8	371	0.6	392	0.3	447
	1978	2.3	291	0.8	348	0.7	380	0.2	418
	1979	1.0	338	0.4	361	0.5	421	0.2	457
	1980	1.0	317	0.9	334	0.6	444	0.4	488
	1981	2.3	334	0.5	363	0.3	421	0.2	473
	1982	2.5	323	1.9	348	1.3	391	0.6	424
	1983	3.7	307	1.2	356	0.7	408	0.6	438
	1984	3.0	309	1.0	386	0.9	480	0.8	533
	1985	2.2	314	1.0	371	0.8	431	0.5	484
	1986	2.4	323	1.1	395	0.6	548	0.3	598
	1987	1.7	343	1.3	387	1.1	416	0.6	484
	1988	2.6	343	2.3	384	0.9	490	0.7	524
Blue crab	1983	<.1	132	0.1	150	0.1	163	<.1	158
	1984	<.1	137	<.1	136	<.1	138	<.1	180
	1985	<.1	154	<.1	149	<.1	156	<.1	156
	1986	<.1	130	<.1	167	<.1	149	<.1	135
	1987	<.1	178	<.1	167	<.1	144	<.1	152
	1988	<.1	141	<.1	153	<.1	152	<.1	161

Table A.13. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Matagorda Bay system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	1.1	332	0.1	409	<.1	387	<.1	312
	1976	0.3	370	0.2	460	0.0		<.1	618
	1977	0.4	350	0.2	464	0.1	567	0.1	660
	1978	0.8	358	0.1	414	0.1	545	<.1	630
	1979	1.3	338	<.1	414	<.1	567	<.1	676
	1980	0.2	346	0.2	475	0.1	565	<.1	477
	1981	0.4	337	0.1	454	0.1	514	<.1	592
	1982	0.4	332	0.1	476	0.1	538	<.1	561
	1983	0.3	359	0.2	467	<.1	538	<.1	584
	1984	0.4	358	<.1	491	<.1	594	<.1	708
	1985	0.6	332	0.1	450	0.1	584	<.1	589
	1986	0.5	341	0.1	484	0.1	544	<.1	558
	1987	0.6	324	0.1	464	<.1	557	<.1	661
	1988	0.5	353	0.3	454	0.1	551	<.1	649
Spotted seatrout	1975	0.5	385	0.1	518	<.1	570	0.0	
	1976	0.3	387	0.1	526	<.1	682	0.0	
	1977	0.2	387	0.1	492	0.1	573	<.1	661
	1978	0.6	386	0.1	506	<.1	621	0.0	
	1979	0.4	396	0.1	490	0.0		0.0	
	1980	0.2	396	0.1	446	0.0		0.0	
	1981	0.2	402	0.1	503	<.1	536	<.1	483
	1982	0.2	397	0.1	494	<.1	521	<.1	452
	1983	0.2	410	0.1	501	<.1	598	<.1	505
	1984	0.1	393	<.1	545	<.1	572	<.1	361
	1985	0.2	399	0.1	507	<.1	635	<.1	462
	1986	0.4	390	0.9	444	<.1	492	<.1	432
	1987	0.5	407	0.1	506	<.1	637	<.1	370
	1988	0.2	400	0.1	522	<.1	598	<.1	508

Table A.13. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1975	0.3	233	0.4	299	0.1	527	0.1	519
	1976	0.3	244	0.2	314	0.2	418	0.1	516
	1977	0.1	237	0.2	320	0.1	376	0.1	472
	1978	0.1	273	0.2	376	0.1	406	<.1	601
	1979	0.1	235	<.1	577	<.1	488	<.1	640
	1980	0.4	239	0.2	316	0.1	456	0.1	553
	1981	0.1	240	0.2	382	0.1	448	<.1	607
	1982	0.2	252	0.2	337	0.1	443	0.1	544
	1983	0.2	250	0.3	347	0.1	458	<.1	620
	1984	0.1	288	0.1	367	<.1	488	<.1	676
	1985	0.1	243	0.2	348	<.1	426	<.1	597
	1986	0.2	240	0.3	336	0.1	416	<.1	604
	1987	0.2	248	0.1	382	0.1	425	0.1	599
	1988	0.3	235	0.2	348	0.1	444	<.1	691
Sheepshead	1975	0.0		<.1	230	<.1	345	0.0	
	1976	<.1	165	<.1	261	0.1	282	<.1	320
	1977	0.0		<.1	262	<.1	318	<.1	406
	1978	<.1	385	<.1	336	<.1	311	<.1	407
	1979	<.1	268	<.1	273	0.1	329	<.1	356
	1980	0.0		0.0		<.1	353	0.0	
	1981	<.1	235	<.1	254	0.1	289	0.1	326
	1982	<.1	326	<.1	285	<.1	305	<.1	354
	1983	<.1	369	<.1	292	<.1	346	<.1	368
	1984	<.1	300	<.1	323	<.1	378	<.1	381
	1985	0.0		<.1	305	<.1	375	<.1	420
	1986	<.1	428	<.1	249	<.1	346	<.1	397
	1987	0.0		<.1	275	<.1	363	<.1	378
	1988	0.0		<.1	297	<.1	324	<.1	444

Table A.13. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	0.1	254	<.1	280	<.1	438	<.1	460
	1976	<.1	220	<.1	307	<.1	338	0.0	
	1977	<.1	250	0.0		<.1	326	<.1	390
	1978	0.0		0.0		<.1	284	<.1	387
	1979	<.1	240	<.1	310	<.1	437	<.1	454
	1980	<.1	202	0.1	311	0.1	343	<.1	436
	1981	<.1	271	<.1	309	<.1	398	<.1	413
	1982	<.1	281	<.1	296	<.1	369	<.1	413
	1983	<.1	308	<.1	298	<.1	345	<.1	398
	1984	<.1	224	<.1	300	<.1	350	<.1	384
	1985	<.1	307	<.1	294	<.1	360	<.1	411
	1986	<.1	280	<.1	304	<.1	387	<.1	416
	1987	<.1	272	<.1	277	<.1	325	<.1	390
	1988	0.0		<.1	292	<.1	381	<.1	405
Atlantic croaker	1975	0.0		0.0		0.0		0.0	
	1976	0.3	262	<.1	308	0.0		0.0	
	1977	0.2	265	<.1	347	0.0		0.0	
	1978	0.2	254	0.0		0.0		0.0	
	1979	0.1	285	<.1	330	0.0		0.0	
	1980	0.2	261	0.0		0.0		0.0	
	1981	0.1	270	<.1	351	0.0		0.0	
	1982	0.1	266	<.1	357	0.0		0.0	
	1983	0.2	263	0.0		0.0		0.0	
	1984	0.2	259	0.0		0.0		0.0	
	1985	0.1	255	<.1	173	0.0		0.0	
	1986	0.2	254	<.1	225	<.1	191	0.0	
	1987	0.2	252	<.1	261	0.0		0.0	
	1988	0.3	253	<.1	334	0.0		0.0	

Table A.13. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	0.0		<.1	315	0.1	262	0.2	298
	1976	0.0		<.1	270	<.1	320	<.1	308
	1977	<.1	321	0.0		0.0		0.0	
	1978	0.0		0.0		<.1	184	0.0	
	1979	0.0		<.1	269	<.1	252	<.1	235
	1980	<.1	220	0.0		0.0		0.0	
	1981	0.0		0.0		<.1	242	0.0	
	1982	<.1	258	<.1	239	<.1	251	<.1	259
	1983	<.1	325	<.1	276	<.1	265	<.1	254
	1984	<.1	312	<.1	280	<.1	260	0.0	
	1985	<.1	296	<.1	250	<.1	234	<.1	252
	1986	0.0		<.1	235	<.1	272	0.0	
	1987	0.0		<.1	225	<.1	252	<.1	250
	1988	0.0		0.0		0.0		<.1	184
Gafftopsail catfish	1975	0.0		0.0		<.1	552	0.1	581
	1976	0.0		<.1	464	0.1	540	0.1	549
	1977	0.0		0.0		0.0		<.1	499
	1978	0.0		0.0		<.1	513	<.1	516
	1979	0.0		0.0		0.0		0.0	
	1980	<.1	340	0.0		0.0		<.1	617
	1981	0.0		<.1	406	<.1	525	<.1	589
	1982	<.1	550	<.1	498	<.1	537	<.1	510
	1983	0.0		<.1	485	<.1	388	<.1	564
	1984	<.1	557	<.1	464	<.1	525	<.1	519
	1985	<.1	433	<.1	460	<.1	508	<.1	545
	1986	0.0		<.1	418	<.1	489	<.1	570
	1987	0.0		<.1	393	<.1	534	<.1	541
	1988	0.0		<.1	478	0.1	539	<.1	536

Table A.13. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf	1975	0.6	278	1.2	317	<.1	200	<.1	240
mendaden	1976	0.2	240	<.1	270	<.1	261	<.1	243
	1977	0.2	244	0.0		0.0		0.0	
	1978	<.1	229	<.1	256	<.1	263	0.0	
	1979	0.4	251	<.1	256	<.1	238	<.1	246
	1980	<.1	260	<.1	260	0.0		0.0	
	1981	0.1	249	<.1	239	<.1	233	<.1	235
	1982	<.1	255	<.1	234	<.1	205	<.1	243
	1983	<.1	248	<.1	269	<.1	227	<.1	273
	1984	0.4	248	<.1	244	<.1	258	<.1	242
	1985	0.1	254	<.1	275	<.1	249	<.1	219
	1986	0.2	241	<.1	242	<.1	224	<.1	238
	1987	0.1	245	<.1	239	<.1	215	<.1	247
	1988	0.2	239	<.1	204	<.1	215	<.1	215
Hardhead	1975	0.1	305	<.1	365	<.1	265	<.1	310
catfish	1976	0.1	283	0.1	289	<.1	304	<.1	170
	1977	0.1	306	<.1	298	<.1	318	0.0	
	1978	0.1	286	<.1	297	<.1	248	0.0	
	1979	0.1	306	<.1	388	<.1	350	0.0	
	1980	0.1	330	0.0		0.0		0.0	
	1981	0.2	316	0.1	312	<.1	249	<.1	343
	1982	0.2	325	0.1	355	<.1	284	<.1	295
	1983	0.2	325	0.1	354	<.1	304	<.1	333
	1984	0.6	314	0.2	352	<.1	323	<.1	340
	1985	0.4	325	0.2	370	<.1	332	<.1	333
	1986	0.3	317	0.2	365	<.1	328	<.1	312
	1987	0.5	323	0.2	369	<.1	376	<.1	327
	1988	0.5	333	0.5	353	<.1	322	<.1	331

Table A.13. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	181	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	230	0.0		0.0		0.0	
	1982	<.1	202	0.0		0.0		0.0	
	1983	<.1	178	0.0		0.0		0.0	
	1984	<.1	194	0.0		0.0		0.0	
	1985	<.1	177	0.0		<.1	209	0.0	
	1986	<.1	158	<.1	110	0.0		0.0	
	1987	0.1	177	0.0		0.0		0.0	
	1988	<.1	171	0.0		0.0		0.0	
Spot	1975	0.0		<.1	305	0.0		0.0	
	1976	0.2	229	0.0		0.0		0.0	
	1977	<.1	256	0.0		0.0		0.0	
	1978	0.3	235	<.1	255	0.0		0.0	
	1979	<.1	260	0.0		0.0		0.0	
	1980	0.4	235	0.0		0.0		0.0	
	1981	<.1	240	0.0		0.0		0.0	
	1982	0.1	232	0.0		0.0		0.0	
	1983	<.1	242	0.0		0.0		0.0	
	1984	0.1	239	<.1	250	0.0		0.0	
	1985	0.1	234	0.0		0.0		0.0	
	1986	0.1	237	<.1	278	0.0		0.0	
	1987	0.1	220	<.1	209	0.0		0.0	
	1988	0.2	232	0.0		<.1	192	0.0	

Table A.13. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped mullet	1975	0.3	318	0.1	411	0.0		0.0	
	1976	0.2	328	0.1	422	0.0		0.0	
	1977	0.4	323	<.1	482	0.0		0.0	
	1978	0.6	330	0.1	451	0.0		0.0	
	1979	0.3	338	<.1	430	0.0		0.0	
	1980	0.2	332	<.1	426	0.0		0.0	
	1981	0.2	320	<.1	440	0.0		0.0	
	1982	0.3	327	<.1	424	0.0		0.0	
	1983	0.2	334	<.1	408	<.1	420	0.0	
	1984	0.3	327	<.1	405	0.0		0.0	
	1985	0.2	319	<.1	430	0.0		0.0	
	1986	0.1	333	<.1	413	0.0		0.0	
	1987	0.7	315	<.1	403	0.0		0.0	
	1988	0.4	322	<.1	410	0.0		0.0	
Other finfishes	1975	0.4	309	0.4	402	0.1	908	0.1	864
	1976	0.8	307	0.2	543	0.1	862	0.2	885
	1977	1.6	355	0.8	361	0.1	771	0.2	922
	1978	0.7	281	0.3	392	0.1	579	0.1	846
	1979	0.6	311	0.1	369	<.1	624	<.1	928
	1980	0.4	277	0.2	405	<.1	869	<.1	828
	1981	0.1	371	0.1	403	0.1	828	<.1	899
	1982	0.8	430	0.1	533	0.1	794	<.1	723
	1983	1.1	305	0.2	528	0.1	868	0.1	843
	1984	1.2	459	0.2	477	0.1	783	0.1	945
	1985	0.5	344	0.1	522	0.1	861	0.1	885
	1986	0.7	389	0.3	427	0.1	816	0.1	787
	1987	0.7	291	0.1	433	<.1	758	<.1	733
	1988	0.7	301	0.2	372	0.1	713	0.1	800

Table A.13. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1975	3.3	315	2.3	342	0.5	487	0.6	510
	1976	2.7	303	1.0	415	0.6	502	0.6	611
	1977	3.3	335	1.4	371	0.4	564	0.4	700
	1978	3.5	320	0.8	395	0.5	453	0.2	654
	1979	3.4	323	0.5	410	0.2	441	0.1	637
	1980	2.2	290	0.7	394	0.3	503	0.2	570
	1981	1.8	333	0.6	399	0.4	496	0.2	560
	1982	2.3	322	0.8	410	0.4	501	0.2	534
	1983	2.5	316	0.8	410	0.4	529	0.2	621
	1984	3.3	324	0.6	416	0.3	561	0.2	686
	1985	2.4	316	0.7	407	0.4	549	0.3	656
	1986	2.7	316	1.9	408	0.5	535	0.3	643
	1987	3.8	286	0.8	398	0.2	481	0.2	517
	1988	3.4	304	1.3	388	<.1	506	0.3	639
Blue crab	1983	<.1	149	0.1	152	<.1	154	<.1	141
	1984	0.1	145	<.1	152	0.1	146	<.1	139
	1985	<.1	148	<.1	137	<.1	123	<.1	169
	1986	<.1	135	<.1	134	<.1	147	<.1	252
	1987	0.1	152	0.1	158	<.1	148	0.0	
	1988	<.1	135	<.1	140	<.1	135	0.0	

Table A.14. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the San Antonio Bay system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.8	320	0.1	408	<.1	360	<.1	310
	1976	0.9	349	0.4	487	0.2	511	<.1	361
	1977	0.6	340	0.2	414	0.1	525	<.1	602
	1978	0.5	359	0.1	414	<.1	568	<.1	630
	1979	1.3	343	0.3	409	0.2	492	0.1	588
	1980	0.4	346	0.2	447	0.2	495	<.1	609
	1981	0.5	342	0.1	436	<.1	524	<.1	576
	1982	0.4	329	0.1	417	<.1	520	<.1	478
	1983	0.4	354	0.1	490	<.1	555	<.1	631
	1984	0.5	363	0.1	430	<.1	594	<.1	678
	1985	1.0	334	0.1	432	0.1	530	<.1	529
	1986	0.5	335	0.3	484	0.3	536	0.1	507
	1987	0.3	348	0.4	475	0.3	539	0.1	611
	1988	0.5	374	0.4	470	0.2	554	0.1	570
Spotted seatrout	1975	0.9	378	0.1	471	0.0		0.0	
	1976	0.5	398	0.2	500	<.1	456	<.1	397
	1977	0.5	380	<.1	455	0.0		0.0	
	1978	0.4	369	0.1	481	0.0		0.0	
	1979	0.2	397	0.1	542	<.1	445	0.0	
	1980	0.2	409	0.1	487	<.1	477	<.1	422
	1981	0.2	398	0.1	494	<.1	549	<.1	509
	1982	0.3	409	0.1	502	<.1	434	<.1	459
	1983	0.4	406	0.1	508	<.1	461	<.1	528
	1984	0.2	391	<.1	515	<.1	636	<.1	
	1985	0.1	383	<.1	517	<.1	543	0.0	
	1986	0.2	394	0.1	500	<.1	477	<.1	476
	1987	0.2	385	0.1	506	<.1	428	<.1	441
	1988	0.3	405	0.1	511	<.1	543	<.1	417

Table A.14. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black drum	1975	0.2	227	0.3	350	0.1	387	0.0	
	1976	0.2	228	0.6	315	0.3	387	0.1	461
	1977	0.1	273	0.4	319	0.2	388	<.1	481
	1978	0.1	228	0.1	311	0.1	381	<.1	500
	1979	0.1	246	0.2	327	0.1	439	<.1	509
	1980	0.5	255	0.6	316	<.1	363	0.1	460
	1981	0.2	244	0.2	338	0.1	392	<.1	492
	1982	0.6	221	0.4	343	0.1	503	<.1	647
	1983	0.3	239	0.2	348	0.1	404	0.1	475
	1984	0.3	223	<.1	308	<.1	594	<.1	773
	1985	0.2	227	0.1	323	0.1	427	<.1	463
	1986	0.1	235	0.1	342	0.1	408	<.1	439
	1987	0.1	229	0.1	334	0.1	409	<.1	563
	1988	0.5	229	0.1	341	0.2	408	0.1	458
Sheepshead	1975	<.1	210	0.1	217	0.1	298	0.1	412
	1976	<.1	166	0.1	260	0.1	319	0.2	356
	1977	0.0		<.1	251	<.1	322	0.1	335
	1978	0.0		<.1	276	0.1	356	0.3	383
	1979	<.1	205	<.1	270	0.2	359	0.2	380
	1980	0.0		0.3	254	0.4	303	0.1	410
	1981	<.1	340	0.1	294	0.1	330	0.1	371
	1982	<.1	249	0.1	367	<.1	336	<.1	382
	1983	<.1	308	0.1	256	<.1	372	<.1	422
	1984	<.1	438	<.1	491	<.1	423	<.1	413
	1985	<.1	396	<.1	327	<.1	374	<.1	432
	1986	<.1	291	<.1	298	<.1	337	<.1	402
	1987	0.0		<.1	291	<.1	331	<.1	429
	1988	<.1	386	<.1	298	<.1	329	<.1	404

Table A.14. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	<.1	205	<.1	265	0.0		0.0	
	1976	<.1	245	<.1	318	0.1	363	0.1	413
	1977	<.1	283	0.1	289	<.1	323	<.1	393
	1978	<.1	202	0.1	300	<.1	300	<.1	412
	1979	<.1	333	<.1	328	0.1	401	0.1	421
	1980	<.1	252	<.1	310	<.1	354	<.1	390
	1981	<.1	257	0.1	299	<.1	338	<.1	372
	1982	<.1	268	0.1	307	<.1	329	<.1	367
	1983	<.1	270	0.1	304	<.1	373	<.1	425
	1984	<.1	265	<.1	292	<.1	367	<.1	367
	1985	<.1	241	<.1	288	<.1	364	<.1	403
	1986	<.1	343	<.1	292	<.1	387	<.1	442
	1987	<.1	283	0.1	312	<.1	371	<.1	409
	1988	<.1	334	0.1	311	<.1	399	<.1	395
Atlantic croaker	1975	<.1	288	<.1	336	0.0		0.0	
	1976	0.3	266	0.1	355	<.1	363	0.0	
	1977	0.1	270	<.1	337	0.0		0.0	
	1978	0.1	210	<.1	336	0.0		0.0	
	1979	0.2	263	<.1	348	0.0		0.0	
	1980	0.1	252	<.1	317	0.0		0.0	
	1981	0.2	261	<.1	314	0.0		0.0	
	1982	0.2	266	<.1	352	0.0		0.0	
	1983	0.4	272	0.1	350	0.0		0.0	
	1984	0.2	253	<.1	244	0.0		<.1	232
	1985	0.1	261	0.0		0.0		0.0	
	1986	0.2	250	<.1	314	<.1	251	0.0	
	1987	<.1	249	<.1	315	0.0		0.0	
	1988	0.2	255	<.1	228	0.0		0.0	

Table A.14. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		<.1	211
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		<.1	175	0.0		0.0	
	1982	<.1	212	<.1	282	<.1	254	0.0	
	1983	0.0		<.1	196	0.0		<.1	285
	1984	0.0		0.0		<.1	282	0.0	
	1985	<.1	332	0.0		0.0		0.0	
	1986	0.0		0.0		<.1	254	0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		<.1	284	0.0	
Gafftopsail catfish	1975	0.0		0.0		<.1	525	<.1	478
	1976	0.0		0.1	447	0.2	515	<.1	539
	1977	0.0		<.1	510	0.1	527	<.1	538
	1978	0.0		0.0		<.1	524	<.1	581
	1979	<.1	386	<.1	533	<.1	500	<.1	565
	1980	0.0		0.1	490	0.2	510	<.1	556
	1981	0.0		<.1	448	<.1	541	<.1	566
	1982	<.1	418	0.1	491	0.2	530	0.1	563
	1983	<.1	456	0.1	474	0.1	518	0.1	557
	1984	<.1	375	0.1	460	0.1	535	0.1	554
	1985	0.0		<.1	506	<.1	530	<.1	578
	1986	<.1	440	0.1	445	<.1	520	<.1	566
	1987	0.0		<.1	356	<.1	528	<.1	586
	1988	0.0		<.1	522	0.1	534	<.1	577

Table A.14. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1975	<.1	255	0.1	287	0.1	186	0.1	219
	1976	0.2	265	<.1	336	<.1	251	<.1	269
	1977	0.1	238	<.1	259	0.0		0.0	
	1978	<.1	266	0.0		<.1	240	0.1	230
	1979	<.1	246	0.0		0.0		<.1	231
	1980	0.1	255	0.0		0.0		0.0	
	1981	0.1	251	<.1	254	<.1	229	<.1	228
	1982	0.1	247	<.1	187	<.1	232	<.1	236
	1983	0.1	246	<.1	222	<.1	236	<.1	237
	1984	0.3	247	<.1	248	<.1	253	<.1	154
	1985	<.1	251	<.1	282	<.1	250	<.1	237
	1986	0.1	241	<.1	254	<.1	276	<.1	263
	1987	<.1	258	0.0		<.1	298	0.0	
	1988	0.1	248	<.1	232	<.1	239	<.1	171
Hardhead catfish	1975	0.4	312	0.1	369	<.1	295	<.1	295
	1976	0.4	318	0.2	310	0.1	301	0.1	267
	1977	0.2	308	<.1	375	0.0		<.1	304
	1978	0.1	311	<.1	368	<.1		<.1	323
	1979	0.4	328	0.2	374	0.1	316	<.1	298
	1980	0.3	318	0.2	317	0.1	296	<.1	349
	1981	0.6	337	0.3	363	<.1	335	<.1	321
	1982	0.4	336	0.3	356	0.1	312	<.1	347
	1983	0.4	324	0.1	332	<.1	320	<.1	342
	1984	0.6	327	0.3	356	0.1	326	<.1	319
	1985	0.5	339	0.3	378	0.1	340	<.1	313
	1986	0.4	327	0.5	372	<.1	322	<.1	363
	1987	0.3	334	0.5	377	0.1	339	<.1	337
	1988	0.4	346	0.5	372	0.1	301	0.1	308

Table A.14. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	0.0		0.0		0.0		0.0	
	1976	0.2	211	<.1	216	0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.1	222	0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	178	<.1	174	0.0		0.0	
	1982	<.1	187	0.0		0.0		0.0	
	1983	<.1	191	<.1	158	<.1	152	0.0	
	1984	<.1	158	<.1	128	0.0		0.0	
	1985	<.1	206	0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	<.1	143	0.0		0.0		0.0	
	1988	<.1	166	<.1	160	0.0		0.0	
Spot	1975	<.1	245	0.0		0.0		0.0	
	1976	0.3	236	<.1		0.0		0.0	
	1977	0.2	240	0.0		0.0		0.0	
	1978	<.1	220	0.1	285	<.1	300	0.0	
	1979	<.1	266	<.1	309	0.0		0.0	
	1980	0.1	246	0.0		0.0		0.0	
	1981	<.1	253	0.0		0.0		0.0	
	1982	0.1	240	<.1	343	0.0		0.0	
	1983	0.2	246	0.0		<.1	240	0.0	
	1984	0.1	241	0.0		0.0		0.0	
	1985	0.1	237	0.0		0.0		0.0	
	1986	0.1	231	<.1	266	0.0		<.1	227
	1987	<.1	225	0.0		0.0		0.0	
	1988	<.1	245	<.1	269	0.0		0.0	

Table A.14. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1975	0.6	319	<.1	395	0.0		0.0	
	1976	1.6	325	0.1	426	0.0		0.0	
	1977	0.6	318	0.2	410	0.0		0.0	
	1978	0.5	322	0.0		0.0		0.0	
	1979	0.7	327	0.1	411	<.1	477	0.0	
	1980	0.5	343	0.1	428	<.1	512	0.0	
	1981	0.5	334	<.1	403	<.1	418	0.0	
	1982	0.3	329	<.1	432	0.0		0.0	
	1983	0.3	330	<.1	420	0.0		0.0	
	1984	0.4	328	0.1	443	<.1	534	0.0	
	1985	0.4	327	0.1	427	<.1	491	<.1	305
	1986	0.2	324	0.2	420	<.1	439	<.1	602
	1987	0.7	324	0.4	406	<.1	485	0.0	
	1988	0.3	330	0.1	412	0.0		0.0	
Other finfishes	1975	0.2	300	0.1	325	<.1	537	0.2	560
	1976	0.6	282	0.2	485	0.1	784	0.2	1060
	1977	1.3	310	0.6	378	<.1	608	<.1	745
	1978	1.3	460	0.7	428	<.1	786	<.1	1012
	1979	0.4	344	0.1	516	<.1	875	0.1	628
	1980	1.0	291	0.1	354	<.1	159	<.1	828
	1981	0.5	331	0.2	530	0.1	644	0.1	817
	1982	0.8	429	0.1	548	0.1	630	0.1	835
	1983	0.7	319	0.1	488	0.1	796	0.1	946
	1984	0.1	343	0.1	470	0.1	794	0.1	857
	1985	0.2	372	0.1	494	0.1	727	0.1	920
	1986	0.2	348	0.1	552	0.1	634	0.1	772
	1987	0.4	439	0.5	462	0.2	594	0.1	881
	1988	0.8	430	0.3	449	0.2	743	0.1	809

Table A.14. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1975	3.1	325	0.9	346	0.4	312	0.5	429
	1976	5.1	311	2.1	394	1.2	461	0.7	522
	1977	3.7	314	1.7	369	0.5	460	0.3	440
	1978	3.1	365	1.1	405	0.4	435	0.5	410
	1979	3.3	335	1.1	398	0.6	429	0.5	438
	1980	3.2	308	1.7	349	1.0	391	0.3	493
	1981	3.0	318	1.0	390	0.4	430	0.3	526
	1982	3.2	311	1.2	386	0.5	478	0.2	636
	1983	3.5	309	1.1	375	0.4	481	0.3	572
	1984	2.6	301	0.7	406	0.4	552	0.2	626
	1985	2.6	320	0.9	410	0.5	491	0.2	617
	1986	2.1	328	1.4	432	0.8	503	0.4	568
	1987	2.0	364	2.0	432	0.8	496	0.4	613
	1988	3.0	331	1.6	410	0.7	502	0.5	556
Blue crab	1983	<.1	134	<.1	140	<.1	137	<.1	160
	1984	<.1	143	0.1	149	<.1	152	<.1	142
	1985	<.1	133	<.1	143	<.1	149	<.1	154
	1986	<.1	146	<.1	144	<.1	147	<.1	162
	1987	0.1	142	0.1	154	<.1	162	<.1	171
	1988	<.1	134	<.1	138	<.1	144	<.1	108

Table A.15. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Aransas Bay system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	1.0	333	0.1	375	<.1	575	0.0	
	1976	0.3	338	0.2	464	<.1	518	0.0	
	1977	0.4	346	0.1	445	<.1	542	<.1	660
	1978	0.4	381	0.5	414	<.1	456	<.1	414
	1979	0.6	345	0.1	415	0.1	550	<.1	357
	1980	0.6	336	0.3	417	0.1	542	<.1	293
	1981	0.5	348	0.1	446	0.1	526	<.1	600
	1982	0.3	328	0.1	454	0.1	504	<.1	695
	1983	0.2	360	0.1	449	<.1	523	<.1	643
	1984	0.4	350	0.1	454	<.1	531	<.1	561
	1985	0.5	356	0.1	483	0.2	559	<.1	593
	1986	0.4	340	0.2	475	0.3	544	0.1	610
	1987	0.2	361	0.2	456	0.1	567	0.1	595
	1988	0.4	360	0.3	483	0.2	557	<.1	601
Spotted seatrout	1975	0.2	411	0.3	519	0.0		0.0	
	1976	0.1	358	0.1	496	<.1	553	0.0	
	1977	<.1	356	<.1	528	<.1	528	0.0	
	1978	<.1	363	<.1	462	<.1		0.0	
	1979	<.1	421	<.1	487	<.1	628	0.0	
	1980	0.1	393	0.1	470	<.1	494	0.0	
	1981	0.1	405	0.1	492	<.1	548	<.1	511
	1982	0.1	408	0.1	505	<.1	544	<.1	534
	1983	0.1	418	0.1	514	<.1	547	0.0	
	1984	0.1	422	<.1	515	<.1	399	<.1	429
	1985	0.1	397	<.1	500	<.1	554	<.1	509
	1986	0.2	392	0.1	532	<.1	470	<.1	412
	1987	0.2	398	0.1	524	<.1	545	<.1	482
	1988	0.2	391	0.1	495	<.1	566	<.1	411

Table A.15. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1975	0.4	245	0.4	332	<.1	370	0.0	
	1976	0.1	262	0.3	305	0.2	483	<.1	632
	1977	0.1	244	0.2	310	0.1	400	<.1	623
	1978	0.2	231	0.1	325	0.1	401	<.1	490
	1979	0.1	241	0.1	310	0.1	435	0.1	553
	1980	0.2	240	0.5	303	0.1	494	0.1	614
	1981	0.1	256	0.2	329	0.1	393	0.1	450
	1982	0.2	247	0.5	314	0.2	404	0.1	492
	1983	0.2	248	0.2	331	0.2	396	0.1	490
	1984	0.1	219	<.1	327	<.1	618	<.1	701
	1985	0.1	226	0.1	334	0.1	396	<.1	630
	1986	0.1	241	0.2	343	0.1	405	<.1	504
	1987	0.1	244	0.1	344	0.2	400	0.1	485
	1988	0.3	235	0.2	336	0.2	394	0.1	492
Sheepshead	1975	0.0		0.6	265	0.4	335	0.1	340
	1976	<.1		0.6	232	0.3	271	0.1	370
	1977	0.0		0.2	234	0.2	268	0.1	335
	1978	0.0		0.2	268	0.2	321	0.1	344
	1979	0.0		0.1	282	0.4	309	0.2	351
	1980	<.1	360	0.1	246	0.2	293	0.2	356
	1981	<.1	262	<.1	288	0.1	315	0.1	365
	1982	<.1	171	<.1	284	0.1	333	0.1	371
	1983	<.1	326	<.1	281	<.1	351	0.1	394
	1984	<.1	532	<.1	448	<.1	397	<.1	459
	1985	<.1	274	<.1	256	<.1	359	<.1	406
	1986	<.1	230	<.1	279	<.1	316	<.1	375
	1987	<.1	299	<.1	321	<.1	350	0.1	390
	1988	<.1	304	<.1	242	<.1	326	<.1	398

Table A.15. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	<.1	410	<.1	280	<.1	285	0.0	
	1976	<.1	268	0.1	304	<.1	341	0.0	
	1977	<.1	250	<.1	311	<.1	355	0.1	397
	1978	<.1	215	0.0		0.1	366	0.1	416
	1979	<.1	281	<.1	348	<.1	378	<.1	353
	1980	<.1	228	<.1	336	<.1	431	0.1	453
	1981	<.1	278	<.1	323	<.1	389	<.1	398
	1982	<.1	347	<.1	303	<.1	364	<.1	432
	1983	<.1	316	<.1	318	<.1	325	<.1	401
	1984	<.1	237	<.1	327	<.1	352	<.1	405
	1985	<.1	236	<.1	306	<.1	370	<.1	383
	1986	<.1	311	<.1	337	<.1	357	<.1	426
	1987	<.1	326	<.1	314	<.1	388	<.1	445
	1988	<.1	358	<.1	309	<.1	364	<.1	437
Atlantic croaker	1975	0.1	283	0.2	355	0.0		0.0	
	1976	0.2	284	0.1	361	0.0		0.0	
	1977	0.4	266	0.4	336	<.1	394	0.0	
	1978	0.3	291	0.2	357	0.0		0.0	
	1979	0.1	272	0.1	342	<.1	382	0.0	
	1980	0.1	268	0.1	349	<.1	355	0.0	
	1981	0.3	286	0.2	351	0.1	381	<.1	368
	1982	0.1	294	0.2	344	<.1	381	<.1	324
	1983	0.2	288	0.1	340	<.1	334	0.0	
	1984	0.1	256	<.1	301	0.0		0.0	
	1985	0.3	264	<.1	332	<.1	240	0.0	
	1986	0.2	267	<.1	339	0.0		0.0	
	1987	0.2	270	<.1	334	<.1	196	0.0	
	1988	0.2	278	0.1	340	<.1	317	0.0	

Table A.15. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	<.1		<.1	290	0.0		<.1	325
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		<.1	226	0.0	
	1982	0.0		0.0		<.1	297	0.0	
	1983	0.0		<.1	263	<.1	311	0.0	
	1984	<.1	361	<.1	270	<.1	206	0.0	
	1985	0.0		<.1	237	0.0		0.0	
	1986	0.0		0.0		0.0		<.1	206
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1975	0.0		0.0		0.0		<.1	552
	1976	0.0		0.0		0.0		<.1	587
	1977	0.0		<.1	385	<.1		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		<.1	545	<.1	495
	1980	0.0		<.1	520	<.1	492	<.1	596
	1981	<.1	195	<.1	423	<.1	521	<.1	562
	1982	<.1	148	<.1	467	<.1	548	<.1	570
	1983	0.0		<.1	478	<.1	532	<.1	590
	1984	<.1	364	<.1	476	<.1	531	<.1	558
	1985	0.0		<.1	470	<.1	540	0.1	568
	1986	<.1	371	<.1	484	0.1	526	<.1	571
	1987	0.0		<.1	491	<.1	540	<.1	566
	1988	0.0		<.1	522	0.1	526	<.1	591

Table A.15. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1975	0.0		0.1	331	<.1	262	<.1	280
	1976	0.0		<.1	272	<.1	261	<.1	263
	1977	<.1	242	0.0		0.0		<.1	215
	1978	0.3	254	<.1	225	0.1	222	<.1	228
	1979	<.1	251	0.0		<.1	269	<.1	245
	1980	<.1	238	<.1	250	<.1	265	<.1	230
	1981	<.1	251	<.1	232	<.1	234	<.1	224
	1982	<.1	243	<.1	225	<.1	236	0.0	
	1983	0.1	248	<.1	255	<.1	214	<.1	232
	1984	0.5	250	<.1	271	<.1	240	<.1	250
	1985	0.1	249	<.1	326	<.1	243	0.0	
	1986	0.1	244	<.1	278	<.1	223	<.1	232
	1987	<.1	250	0.0		0.0		0.0	
	1988	<.1	232	<.1	345	<.1	246	0.0	
Hardhead catfish	1975	0.1	302	<.1		0.0		<.1	305
	1976	0.1	285	<.1	310	<.1	277	0.0	
	1977	<.1	297	<.1	334	<.1	412	0.0	
	1978	0.1	316	0.1	369	0.0		<.1	284
	1979	0.1	324	0.1	372	<.1	390	<.1	255
	1980	0.2	311	0.1	373	<.1	309	0.0	
	1981	0.2	334	0.1	366	<.1	363	<.1	329
	1982	0.2	333	0.1	378	<.1	340	<.1	323
	1983	0.2	326	0.2	372	<.1	378	<.1	359
	1984	0.3	321	0.3	363	<.1	341	<.1	321
	1985	0.2	330	0.2	376	<.1	348	<.1	374
	1986	0.3	328	0.3	376	0.1	401	<.1	320
	1987	0.1	339	0.2	372	<.1	335	<.1	373
	1988	0.2	328	0.2	364	<.1	348	<.1	339

Table A.15. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	<.1	210	0.0		0.0		0.0	
	1978	<.1	247	0.0		0.0		<.1	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	217	<.1	196	0.0		0.0	
	1982	<.1	216	<.1	219	0.0		0.0	
	1983	<.1	174	0.0		0.0		0.0	
	1984	<.1	196	<.1	135	0.0		0.0	
	1985	<.1	167	<.1	138	0.0		0.0	
	1986	<.1	196	<.1	307	0.0		0.0	
	1987	<.1	182	<.1	168	0.0		0.0	
	1988	<.1	170	<.1	165	0.0		0.0	
Spot	1975	0.1	236	<.1	300	0.0		0.0	
	1976	<.1	216	<.1	305	0.0		0.0	
	1977	0.1	242	<.1	248	0.0		0.0	
	1978	0.1	259	0.0		0.0		0.0	
	1979	<.1	249	<.1	300	0.0		0.0	
	1980	<.1	217	0.0		0.0		0.0	
	1981	<.1	257	<.1	285	0.0		0.0	
	1982	0.1	240	<.1	290	0.0		0.0	
	1983	0.1	241	<.1	292	0.0		0.0	
	1984	<.1	239	<.1	304	0.0		0.0	
	1985	0.1	237	0.0		0.0		0.0	
	1986	0.1	237	<.1	225	0.0		0.0	
	1987	0.1	232	0.0		0.0		0.0	
	1988	0.1	232	<.1	268	0.0		0.0	

Table A.15. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped mullet	1975	2.3	320	0.2	409	<.1	515	0.0	
	1976	0.3	318	0.1	417	<.1	528	0.0	
	1977	0.3	316	<.1	373	0.0		0.0	
	1978	1.0	334	<.1	406	<.1	346	0.0	
	1979	0.6	328	0.1	420	0.0		0.0	
	1980	0.4	329	0.2	408	<.1	523	0.0	
	1981	0.5	325	<.1	397	<.1	540	0.0	
	1982	0.7	323	0.1	403	<.1	400	0.0	
	1983	0.4	334	0.1	399	<.1	471	<.1	411
	1984	0.6	326	0.1	421	0.0		0.0	
	1985	0.2	323	0.1	428	0.0		0.0	
	1986	0.2	327	<.1	433	<.1	505	0.0	
	1987	0.5	325	0.1	409	<.1	505	0.0	
	1988	0.3	335	0.2	420	<.1	488	0.0	
Other finfishes	1975	0.6	306	0.4	338	<.1	1258	0.1	843
	1976	0.3	435	1.1	339	0.2	620	0.1	1059
	1977	0.2	252	<.1	509	0.1	982	<.1	1120
	1978	0.3	282	0.2	421	<.1	1160	<.1	1042
	1979	0.2	388	0.2	392	<.1	998	<.1	1051
	1980	0.5	264	0.1	296	<.1	885	<.1	786
	1981	0.7	372	0.1	552	0.1	718	<.1	946
	1982	0.6	338	0.1	543	0.1	730	0.1	763
	1983	0.5	479	0.2	512	0.1	822	0.1	971
	1984	0.2	461	0.2	572	0.2	916	0.1	996
	1985	0.1	368	0.1	671	0.1	857	0.1	1080
	1986	0.5	390	0.1	426	<.1	871	<.1	988
	1987	0.2	311	0.1	416	<.1	768	<.1	1023
	1988	0.7	505	0.1	443	<.1	899	<.1	922

Table A.15. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1975	4.8	318	2.2	355	0.6	442	0.3	509
	1976	1.3	336	2.6	328	0.8	421	0.3	647
	1977	1.6	288	1.2	335	0.5	451	0.3	491
	1978	3.0	309	1.4	373	0.5	371	0.4	426
	1979	1.8	333	0.9	369	0.7	426	0.4	459
	1980	2.1	303	1.6	354	0.8	431	0.4	443
	1981	2.5	333	1.0	395	0.6	442	0.3	522
	1982	2.4	319	1.2	375	0.6	452	0.4	504
	1983	2.0	342	1.1	395	0.5	493	0.3	613
	1984	2.4	314	0.8	426	0.4	676	0.2	710
	1985	1.8	306	0.7	412	0.5	532	0.3	710
	1986	2.0	307	1.1	399	0.6	493	0.2	592
	1987	1.5	323	0.9	407	0.5	470	0.4	533
	1988	2.3	323	1.1	396	0.6	501	0.3	583
Blue crab	1983	0.1	137	0.1	149	<.1	155	<.1	153
	1984	<.1	140	0.1	143	0.1	151	<.1	156
	1985	<.1	134	<.1	138	<.1	147	<.1	148
	1986	<.1	156	<.1	133	<.1	137	<.1	112
	1987	<.1	143	<.1	159	<.1	158	<.1	174
	1988	<.1	170	<.1	146	<.1	141	<.1	179

Table A.16. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the Corpus Christi Bay system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.3	326	0.1	344	<.1	370	<.1	290
	1976	0.2	357	0.1	486	0.2	544	<.1	638
	1977	0.2	330	0.1	430	0.1	555	<.1	554
	1978	0.2	346	0.1	432	0.1	561	<.1	592
	1979	0.6	328	0.1	398	<.1	587	<.1	673
	1980	0.6	327	0.1	480	<.1	554	<.1	540
	1981	0.3	337	0.1	432	0.1	508	<.1	494
	1982	0.2	330	<.1	454	0.1	544	<.1	678
	1983	0.1	348	0.1	456	0.1	549	<.1	529
	1984	0.6	360	0.1	466	0.1	577	<.1	671
	1985	0.4	339	0.2	494	0.2	551	<.1	616
	1986	0.2	326	0.2	481	0.1	549	<.1	640
	1987	0.2	330	0.1	463	0.1	559	<.1	621
	1988	0.2	352	0.2	471	0.1	554	<.1	661
Spotted seatrout	1975	0.2	388	0.2	497	0.1	606	<.1	680
	1976	0.4	367	0.1	443	<.1	418	<.1	645
	1977	0.1	403	0.1	516	<.1	657	<.1	655
	1978	0.1	385	<.1	533	0.0		0.0	
	1979	0.2	381	<.1	508	<.1	592	<.1	431
	1980	0.2	373	0.1	535	<.1	624	<.1	577
	1981	0.3	402	0.1	474	<.1	577	<.1	589
	1982	0.1	396	0.1	535	<.1	584	<.1	577
	1983	0.2	399	0.1	487	<.1	600	<.1	467
	1984	0.1	410	0.1	529	<.1	529	<.1	436
	1985	0.2	384	0.1	508	<.1	505	<.1	546
	1986	0.2	388	0.2	550	<.1	588	<.1	647
	1987	0.3	400	0.2	527	<.1	588	<.1	392
	1988	0.3	402	0.1	517	<.1	516	<.1	576

Table A.16. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1975	<.1	232	0.1	311	0.2	387	0.1	445
	1976	<.1	220	0.1	329	0.2	374	<.1	488
	1977	<.1		0.1	307	0.1	377	<.1	479
	1978	<.1	358	<.1	343	<.1	419	<.1	438
	1979	0.1	222	0.1	308	0.1	393	<.1	504
	1980	0.1	243	0.1	337	0.3	383	0.1	438
	1981	0.1	241	0.2	321	0.1	391	0.1	473
	1982	<.1	243	0.2	337	0.2	399	0.1	470
	1983	<.1	323	0.2	337	0.3	415	0.2	481
	1984	<.1	232	0.1	362	0.1	413	<.1	486
	1985	0.1	232	<.1	396	0.1	415	<.1	478
	1986	0.1	265	0.1	358	0.2	407	0.1	499
	1987	<.1	215	<.1	370	0.1	424	<.1	492
	1988	0.2	244	0.2	342	0.3	384	<.1	443
Sheepshead	1975	0.0		0.0		<.1	390	0.1	373
	1976	0.0		0.0		<.1	306	<.1	371
	1977	0.0		<.1	252	0.1	339	<.1	339
	1978	<.1	274	0.0		0.1	363	<.1	376
	1979	0.0		<.1	284	0.1	327	0.1	368
	1980	<.1	288	<.1	320	0.1	364	0.1	390
	1981	<.1	324	<.1	299	0.1	326	<.1	390
	1982	0.0		<.1	328	<.1	345	<.1	394
	1983	<.1	406	<.1	341	<.1	357	<.1	380
	1984	<.1	433	<.1	351	<.1	377	<.1	426
	1985	<.1	188	<.1	339	<.1	347	<.1	395
	1986	<.1	304	<.1	329	<.1	349	<.1	390
	1987	0.0		<.1	292	<.1	336	<.1	371
	1988	<.1	398	<.1	268	<.1	348	<.1	380

Table A.16. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	<.1	485	0.1	271	<.1	445	<.1	430
	1976	<.1	344	<.1	306	0.1	348	0.1	383
	1977	0.0		<.1	245	<.1	324	0.1	429
	1978	<.1	306	<.1	358	0.1	388	<.1	399
	1979	<.1	294	<.1	307	<.1	388	<.1	427
	1980	<.1	234	0.1	346	<.1	345	<.1	454
	1981	<.1	322	<.1	328	<.1	353	<.1	415
	1982	<.1	254	<.1	311	<.1	381	<.1	438
	1983	<.1	328	<.1	315	<.1	361	<.1	420
	1984	<.1	275	<.1	306	<.1	369	<.1	417
	1985	<.1	328	<.1	307	<.1	370	<.1	405
	1986	<.1	340	<.1	333	<.1	399	<.1	434
	1987	<.1	317	<.1	308	<.1	347	<.1	453
	1988	<.1	268	<.1	354	<.1	339	<.1	426
Atlantic croaker	1975	0.1	269	0.3	340	<.1	285	0.0	
	1976	0.2	273	0.3	343	0.1	352	<.1	280
	1977	0.1	292	0.4	354	0.1	377	0.0	
	1978	0.3	285	0.1	342	<.1	283	0.0	
	1979	0.1	270	0.4	349	<.1	368	0.0	
	1980	0.6	280	1.0	348	<.1	316	0.0	
	1981	0.4	283	0.3	349	<.1	389	<.1	348
	1982	0.5	294	0.5	349	0.1	383	<.1	324
	1983	0.4	297	0.5	341	<.1	346	<.1	314
	1984	0.4	267	<.1	321	<.1	249	0.0	
	1985	0.5	266	0.1	327	<.1	319	0.0	
	1986	1.0	279	0.3	341	<.1	292	0.0	
	1987	0.5	289	1.0	340	0.1	346	<.1	298
	1988	0.5	296	0.2	347	<.1	353	0.0	

Table A.16. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	<.1	360	<.1	280	0.0		<.1	225
	1976	<.1	345	0.1	287	0.1	304	0.1	304
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	312	<.1	275	0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	318	<.1	231	<.1	250	0.0	
	1982	<.1	302	<.1	324	<.1	271	<.1	315
	1983	0.0		<.1	252	<.1	271	<.1	300
	1984	<.1	331	<.1	285	<.1	272	<.1	282
	1985	<.1	271	<.1	223	<.1	235	<.1	312
	1986	<.1	291	<.1	258	<.1	226	0.0	
	1987	0.0		<.1	280	<.1	255	<.1	215
	1988	0.0		0.0		0.0		<.1	319
Gafftopsail catfish	1975	0.0		0.0		<.1	570	<.1	577
	1976	0.0		0.0		0.0		<.1	476
	1977	0.0		0.0		0.0		<.1	600
	1978	0.0		0.0		<.1	538	<.1	569
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		<.1	507	<.1	592
	1981	<.1	339	<.1	485	<.1	543	<.1	545
	1982	0.0		<.1	496	<.1	516	<.1	571
	1983	<.1	333	<.1	466	<.1	535	<.1	570
	1984	<.1	318	<.1	430	<.1	454	<.1	578
	1985	<.1	324	<.1	505	<.1	550	<.1	558
	1986	<.1	266	<.1	467	<.1	522	<.1	560
	1987	0.0		<.1	369	<.1	508	<.1	587
	1988	0.0		<.1	390	<.1	503	0.1	549

Table A.16. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf menhaden	1975	0.2	269	0.2	300	<.1	275	<.1	275
	1976	0.1	253	0.2	294	<.1	262	0.1	259
	1977	1.6	251	0.2	279	0.1	262	0.1	251
	1978	1.3	250	0.1	252	<.1	259	<.1	246
	1979	0.2	251	<.1	243	<.1	250	<.1	273
	1980	<.1	240	0.0		0.0		<.1	262
	1981	0.2	254	<.1	268	<.1	250	<.1	258
	1982	0.6	256	<.1	250	<.1	260	<.1	252
	1983	0.2	250	<.1	301	<.1	240	<.1	294
	1984	0.3	259	0.2	322	<.1	274	<.1	270
	1985	0.3	249	0.1	288	<.1	254	<.1	252
	1986	0.6	250	0.1	307	<.1	244	<.1	261
	1987	0.1	245	0.1	282	<.1	251	<.1	229
	1988	0.1	240	<.1	291	<.1	257	<.1	235
Hardhead catfish	1975	0.2	316	0.1	342	<.1	340	<.1	320
	1976	0.2	316	<.1	270	0.1	277	0.1	295
	1977	0.1	304	0.1	366	<.1	276	<.1	298
	1978	0.1	325	0.1	319	<.1	274	<.1	328
	1979	0.1	334	0.1	336	0.1	321	<.1	325
	1980	0.1	324	0.2	372	<.1	368	0.0	
	1981	0.2	329	0.1	375	<.1	360	<.1	365
	1982	0.2	330	0.1	369	<.1	353	<.1	358
	1983	0.3	333	0.1	362	<.1	343	<.1	308
	1984	0.2	333	0.1	354	<.1	356	<.1	356
	1985	0.3	329	0.2	380	<.1	357	<.1	379
	1986	0.2	332	0.2	379	<.1	378	<.1	370
	1987	0.2	326	0.2	285	0.1	403	<.1	380
	1988	0.4	321	0.3	374	0.1	362	<.1	361

Table A.16. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	0.0		<.1	180	0.0		0.0	
	1976	<.1	193	<.1	218	0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	222	<.1	201	0.0		0.0	
	1979	<.1	211	<.1	269	0.0		0.0	
	1980	0.1	227	<.1	279	<.1	215	0.0	
	1981	<.1	225	<.1	272	0.0		0.0	
	1982	0.1	219	<.1	280	<.1	328	<.1	291
	1983	0.1	224	<.1	265	<.1	222	<.1	251
	1984	<.1	212	<.1	248	0.0		0.0	
	1985	<.1	191	<.1	182	0.0		0.0	
	1986	<.1	176	<.1	181	0.0		0.0	
	1987	0.2	224	<.1	229	<.1	218	0.0	
	1988	<.1	222	<.1	268	0.0		0.0	
Spot	1975	0.7	232	0.2	306	<.1	275	0.0	
	1976	0.3	228	0.0		0.0		0.0	
	1977	0.2	222	<.1	289	0.0		0.0	
	1978	0.2	245	<.1	261	0.0		0.0	
	1979	<.1	235	<.1	294	0.0		0.0	
	1980	0.2	235	0.1	280	0.0		0.0	
	1981	0.1	242	<.1	278	0.0		0.0	
	1982	0.4	245	0.1	301	0.0		<.1	303
	1983	0.2	252	0.1	278	0.0		<.1	274
	1984	0.4	248	<.1	299	0.0		0.0	
	1985	0.3	239	<.1	276	0.0		0.0	
	1986	0.4	240	<.1	279	0.0		0.0	
	1987	0.3	245	<.1	271	<.1	263	0.0	
	1988	0.4	249	<.1	277	<.1	273	0.0	

Table A.16. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped mullet	1975	0.4	337	0.5	409	0.1	424	<.1	390
	1976	0.3	316	<.1	418	<.1	463	0.0	
	1977	0.1	312	0.2	404	<.1	440	0.0	
	1978	0.1	331	<.1	377	<.1	327	<.1	353
	1979	0.2	330	0.1	411	<.1	344	<.1	347
	1980	0.2	319	<.1	426	0.0		<.1	460
	1981	0.2	329	<.1	415	<.1	497	<.1	327
	1982	0.2	330	<.1	399	<.1	370	<.1	375
	1983	0.2	331	0.1	396	<.1	374	<.1	386
	1984	0.2	329	0.1	426	<.1	415	<.1	500
	1985	0.2	325	<.1	388	<.1	386	<.1	349
	1986	0.1	327	<.1	418	<.1	505	0.0	
	1987	0.3	323	0.1	394	<.1	525	0.0	
	1988	0.2	335	0.1	418	<.1	430	0.0	
Other finfishes	1975	0.1	278	0.8	347	0.1	567	<.1	240
	1976	0.3	293	0.4	338	0.2	368	0.1	763
	1977	0.4	269	0.7	334	<.1	373	<.1	1180
	1978	<.1	284	0.1	350	<.1	248	<.1	453
	1979	0.1	294	0.2	312	0.1	371	<.1	455
	1980	0.2	242	0.1	316	0.1	341	<.1	769
	1981	0.4	326	0.5	396	0.1	496	0.1	655
	1982	0.4	323	0.3	360	0.1	466	0.1	617
	1983	0.4	307	1.2	360	0.1	428	<.1	661
	1984	0.2	324	0.4	425	<.1	514	<.1	659
	1985	0.2	337	0.1	376	<.1	652	<.1	696
	1986	0.3	287	0.2	301	0.1	529	<.1	656
	1987	0.3	303	0.2	330	<.1	404	<.1	740
	1988	0.5	271	0.2	339	0.1	544	0.1	632

Table A.16. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1975	2.2	290	2.8	358	0.6	438	0.4	407
	1976	2.0	305	1.4	350	1.0	383	0.5	458
	1977	2.8	280	2.0	352	0.7	379	0.4	440
	1978	2.5	291	0.6	345	0.4	398	0.3	429
	1979	1.8	303	1.0	328	0.5	379	0.2	405
	1980	2.3	291	1.8	351	0.7	403	0.3	450
	1981	2.3	316	1.6	380	0.6	427	0.4	496
	1982	2.7	294	1.5	355	0.6	414	0.3	476
	1983	2.2	312	2.5	351	0.8	420	0.4	499
	1984	2.6	308	1.1	384	0.3	442	0.2	504
	1985	2.4	306	0.9	396	0.5	472	0.2	531
	1986	3.3	306	1.3	384	0.5	457	0.2	476
	1987	2.4	308	1.9	381	0.5	419	0.2	469
	1988	2.6	309	1.5	380	0.2	425	0.3	534
Blue crab	1983	0.1	139	0.1	150	0.1	147	<.1	142
	1984	0.1	137	0.1	140	<.1	148	<.1	150
	1985	<.1	139	<.1	145	<.1	156	<.1	145
	1986	<.1	144	<.1	148	<.1	135	<.1	129
	1987	0.1	151	<.1	160	<.1	162	<.1	175
	1988	<.1	145	<.1	142	<.1	158	<.1	144

Table A.17. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the upper Laguna Madre system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.1	309	<.1	415	0.1	589	0.1	525
	1976	0.1	317	0.1	387	0.2	559	<.1	569
	1977	0.2	353	<.1	409	0.0		0.0	
	1978	0.2	379	<.1	549	<.1	519	<.1	637
	1979	0.4	351	0.1	450	<.1	518	<.1	610
	1980	0.1	316	0.3	487	0.1	522	<.1	493
	1981	0.1	381	0.1	467	0.1	562	0.1	617
	1982	0.1	336	<.1	480	0.1	562	<.1	648
	1983	0.1	352	<.1	483	0.1	560	<.1	587
	1984	0.2	402	0.3	453	0.1	544	<.1	591
	1985	0.1	328	0.1	472	0.1	584	<.1	535
	1986	0.1	361	0.2	486	0.1	560	<.1	592
	1987	<.1	371	0.1	495	0.1	572	0.1	649
	1988	0.1	360	0.1	508	0.1	595	<.1	634
Spotted seatrout	1975	0.2	423	<.1	543	<.1	620	0.0	
	1976	0.1	396	<.1	465	<.1	668	0.0	
	1977	0.4	373	0.1	485	<.1	612	<.1	588
	1978	0.3	403	0.1	509	<.1	635	<.1	670
	1979	0.1	408	<.1	522	<.1	549	0.0	
	1980	0.1	407	<.1	465	<.1	532	0.0	
	1981	0.1	403	0.1	511	<.1	576	<.1	518
	1982	0.3	395	0.1	528	<.1	510	<.1	478
	1983	0.2	409	0.1	502	<.1	630	<.1	687
	1984	0.1	382	<.1	512	<.1	620	<.1	505
	1985	0.1	405	<.1	516	<.1	515	<.1	496
	1986	0.2	399	<.1	541	<.1	575	<.1	469
	1987	0.1	397	<.1	539	<.1	636	<.1	552
	1988	0.2	392	0.1	527	<.1	640	<.1	490

Table A.17. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Black drum	1975	0.1	244	0.1	338	0.5	443	0.5	456
	1976	<.1	230	0.1	476	0.4	469	0.5	535
	1977	<.1	210	0.2	326	0.3	419	0.2	468
	1978	<.1	414	0.1	430	0.5	410	0.2	460
	1979	<.1	232	0.2	394	0.1	362	0.1	474
	1980	0.1	254	0.1	347	0.3	391	0.1	473
	1981	0.1	225	<.1	362	0.2	414	0.2	466
	1982	<.1	262	0.2	347	0.5	385	0.1	489
	1983	<.1	254	0.1	368	0.2	412	0.2	471
	1984	<.1	298	<.1	444	0.2	435	0.1	495
	1985	0.1	314	0.3	362	0.5	399	0.1	490
	1986	<.1	228	0.1	359	0.3	418	0.1	477
	1987	<.1	215	0.1	365	0.2	404	0.1	478
	1988	0.2	237	0.1	367	0.7	408	0.1	461
Sheepshead	1975	0.0		<.1	412	0.1	378	0.2	420
	1976	0.0		<.1	233	<.1	358	0.2	383
	1977	0.0		<.1	252	0.1	364	0.1	448
	1978	0.0		0.0		0.1	345	0.1	400
	1979	0.0		<.1	358	<.1	368	0.1	416
	1980	0.0		<.1	346	0.1	361	0.1	422
	1981	<.1	390	<.1	320	<.1	379	0.1	392
	1982	0.0		<.1	356	<.1	358	0.1	396
	1983	0.0		<.1	374	0.1	380	0.1	406
	1984	<.1	404	<.1	432	<.1	398	0.1	428
	1985	0.0		<.1	432	<.1	291	<.1	453
	1986	0.0		0.0		<.1	332	<.1	444
	1987	<.1	234	0.0		<.1	350	<.1	424
	1988	<.1	398	0.0		<.1	379	<.1	421

Table A.17. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	<.1	223	0.0		<.1	510	0.1	489
	1976	<.1	231	<.1	295	<.1	330	<.1	448
	1977	0.0		0.0		<.1	491	0.0	
	1978	<.1	235	<.1	362	<.1	330	<.1	416
	1979	<.1	209	0.0		<.1	386	<.1	458
	1980	<.1	190	0.0		<.1	344	<.1	457
	1981	<.1	279	<.1	346	<.1	414	<.1	451
	1982	<.1	270	<.1	302	<.1	376	<.1	429
	1983	<.1	315	<.1	296	<.1	355	<.1	444
	1984	<.1	225	<.1	313	<.1	358	<.1	407
	1985	<.1	270	<.1	312	<.1	357	<.1	420
	1986	<.1	277	<.1	356	<.1	380	<.1	425
	1987	<.1	216	<.1	278	<.1	400	<.1	453
	1988	<.1	376	<.1	287	<.1	390	<.1	461
Atlantic croaker	1975	0.1	272	<.1	342	<.1	420	0.0	
	1976	0.1	265	0.3	346	0.1	361	0.0	
	1977	0.1	277	0.6	349	0.1	399	0.0	
	1978	0.3	265	0.1	336	0.0		0.0	
	1979	<.1	271	<.1	361	0.0		0.0	
	1980	0.1	258	<.1	350	<.1	270	0.0	
	1981	0.1	260	0.1	347	<.1	378	<.1	454
	1982	0.2	298	0.2	357	<.1	384	<.1	395
	1983	<.1	265	<.1	358	<.1	480	0.0	
	1984	0.1	262	<.1	278	0.0		0.0	
	1985	0.1	292	<.1	345	<.1	376	0.0	
	1986	<.1	291	0.1	339	<.1	269	<.1	286
	1987	<.1	269	<.1	342	0.0		<.1	304
	1988	<.1	296	<.1	370	<.1	402	0.0	

Table A.17. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	0.0		0.0		0.0		0.0	
	1976	<.1	378	<.1	412	0.0		0.0	
	1977	0.0		0.0		<.1	377	0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	268	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	320	0.0		<.1	350	0.0	
	1982	0.0		0.0		<.1	265	0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0	
	1986	0.0		0.0		<.1	249	0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		0.0		0.0	
Gafftopsail catfish	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		<.1	516	<.1	539
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		<.1	541	0.0	
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
	1985	0.0		<.1	578	<.1	534	0.0	
	1986	0.0		0.0		0.0		0.0	
	1987	0.0		0.0		0.0		0.0	
	1988	0.0		0.0		<.1	495	0.0	

Table A.17. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1975	0.2	263	0.1	317	0.0		0.0	
	1976	<.1	244	1.1	303	0.1	325	0.0	
	1977	0.8	244	0.5	293	0.1	225	<.1	290
	1978	0.2	249	<.1	325	0.0		0.0	
	1979	0.1	256	<.1	289	0.0		<.1	273
	1980	0.4	250	0.1	248	0.1	247	<.1	242
	1981	0.6	259	0.1	278	<.1	251	<.1	252
	1982	<.1	264	<.1	280	<.1	245	<.1	237
	1983	<.1	272	<.1	310	<.1	240	0.0	
	1984	0.1	268	<.1	294	<.1	265	<.1	280
	1985	0.3	257	0.1	292	<.1	263	<.1	270
	1986	0.6	236	<.1	292	0.0		0.0	
	1987	<.1	266	<.1	238	0.0		0.0	
	1988	0.0		0.0		0.0		<.1	249
Hardhead catfish	1975	0.4	306	0.1	326	<.1	255	<.1	245
	1976	0.3	304	0.1	269	<.1	259	<.1	267
	1977	0.2	305	<.1	325	<.1	304	<.1	380
	1978	0.3	292	<.1	240	<.1	259	0.0	
	1979	0.2	302	0.1	264	0.1	279	0.0	
	1980	0.2	309	0.1	283	<.1	262	<.1	300
	1981	0.2	310	<.1	330	<.1	289	<.1	280
	1982	0.4	310	0.1	294	<.1	285	<.1	313
	1983	0.8	321	0.2	326	0.1	284	<.1	293
	1984	0.6	311	0.2	310	0.1	284	<.1	285
	1985	0.5	314	0.2	323	<.1	281	<.1	293
	1986	0.3	310	0.1	302	0.1	271	<.1	267
	1987	0.2	317	0.1	321	<.1	296	<.1	279
	1988	0.2	318	0.1	348	<.1	274	<.1	283

Table A.17. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Pinfish	1975	<.1	178	0.0		0.0		0.0	
	1976	0.0		<.1	240	0.0		0.0	
	1977	<.1	191	<.1	294	0.0		0.0	
	1978	<.1	190	<.1	189	0.0		0.0	
	1979	<.1	155	0.0		0.0		0.0	
	1980	<.1	161	0.0		<.1	210	0.0	
	1981	<.1	217	<.1	339	0.0		0.0	
	1982	<.1	207	<.1	284	<.1	185	0.0	
	1983	0.1	178	<.1	326	0.0		0.0	
	1984	<.1	179	<.1	284	0.0		0.0	
	1985	<.1	180	0.0		<.1	195	0.0	
	1986	<.1	188	0.0		0.0		0.0	
	1987	<.1	189	<.1	135	0.0		0.0	
	1988	<.1	182	<.1	185	0.0		0.0	
Spot	1975	0.2	238	0.2	302	0.0		0.0	
	1976	0.1	226	<.1	288	0.0		0.0	
	1977	0.1	234	0.1	289	0.0		0.0	
	1978	0.2	242	0.1	290	0.0		0.0	
	1979	0.1	236	<.1	315	<.1	302	0.0	
	1980	0.2	240	0.0		0.0		0.0	
	1981	0.2	242	<.1	280	0.0		0.0	
	1982	0.2	239	<.1	264	0.0		0.0	
	1983	0.1	233	<.1	298	0.0		0.0	
	1984	<.1	230	0.0		0.0		0.0	
	1985	0.4	229	<.1	270	0.0		<.1	215
	1986	0.1	224	<.1	292	0.0		0.0	
	1987	<.1	227	<.1	270	0.0		0.0	
	1988	0.1	235	<.1	282	<.1	310	0.0	

Table A.17. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1975	0.4	326	0.1	414	0.0		0.0	
	1976	0.3	336	0.5	415	<.1	500	0.0	
	1977	0.1	332	0.2	414	<.1	481	<.1	382
	1978	0.1	348	<.1	390	0.0		0.0	
	1979	0.2	348	0.5	422	<.1	430	0.0	
	1980	0.2	334	0.1	422	<.1	362	0.0	
	1981	0.2	344	0.1	427	<.1	348	<.1	384
	1982	0.2	338	<.1	377	<.1	345	0.0	
	1983	0.2	334	0.2	414	0.0		<.1	383
	1984	0.2	347	0.2	408	0.0		<.1	458
	1985	0.1	348	0.2	419	<.1	426	0.0	
	1986	<.1	331	<.1	421	<.1		0.0	
	1987	<.1	334	0.1	425	<.1	401	0.0	
	1988	<.1	340	0.4	421	<.1	484	<.1	412
Other finfishes	1975	0.1	398	0.3	351	0.1	389	<.1	625
	1976	<.1	970	0.1	367	<.1	369	<.1	380
	1977	0.1	273	0.2	321	<.1	396	<.1	187
	1978	<.1	497	0.4	327	<.1	327	0.0	
	1979	<.1	332	0.1	350	0.1	390	<.1	455
	1980	0.1	436	0.1	371	0.1	404	<.1	597
	1981	<.1	316	0.1	372	<.1	425	<.1	584
	1982	0.1	328	0.1	403	<.1	510	<.1	479
	1983	0.1	400	<.1	339	<.1	424	<.1	462
	1984	<.1	316	<.1	469	<.1	526	<.1	472
	1985	<.1	381	<.1	355	<.1	407	<.1	367
	1986	<.1	397	<.1	325	<.1	501	<.1	512
	1987	<.1	393	<.1	420	<.1	602	<.1	491
	1988	<.1	476	<.1	271	<.1	409	<.1	395

Table A.17. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1975	1.6	304	1.0	355	0.9	440	0.9	456
	1976	1.0	317	2.5	354	0.8	449	0.7	495
	1977	2.0	296	2.1	343	0.7	397	0.5	463
	1978	1.6	319	1.0	363	0.8	392	0.4	450
	1979	1.0	322	0.9	394	0.4	370	0.2	468
	1980	1.5	300	1.0	390	0.8	374	0.3	451
	1981	1.6	294	0.6	383	0.5	441	0.4	466
	1982	1.4	318	1.0	369	0.8	400	0.3	458
	1983	1.5	312	0.6	381	0.4	427	0.4	449
	1984	1.5	327	0.9	396	0.4	424	0.3	468
	1985	1.6	313	0.9	378	0.7	438	0.2	429
	1986	0.8	319	1.7	402	0.5	405	0.3	462
	1987	0.5	328	0.5	411	0.4	455	0.2	508
	1988	0.7	321	0.9	394	0.9	416	0.6	457
Blue crab	1983	0.1	140	0.1	146	<.1	153	<.1	162
	1984	0.1	135	0.1	139	<.1	135	<.1	143
	1985	0.1	147	0.1	145	<.1	150	<.1	151
	1986	<.1	146	<.1	148	<.1	143	<.1	152
	1987	0.1	154	0.2	156	0.1	165	<.1	154
	1988	<.1	128	<.1	130	0.0		0.0	

Table A.18. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes and blue crab caught with gill nets in the lower Laguna Madre system during fall 1975-1988. Blank indicates no measurement taken.

		Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
Species	Year	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.2	364	0.3	433	0.2	532	0.1	666
	1976	0.4	351	0.4	418	0.3	549	0.2	651
	1977	0.1	356	0.2	472	0.1	508	<.1	576
	1978	0.1	364	0.1	458	<.1	537	0.1	688
	1979	0.2	349	0.1	426	0.1	603	0.1	650
	1980	0.2	358	0.3	459	0.2	500	<.1	505
	1981	0.2	357	0.2	461	0.2	559	0.2	619
	1982	0.2	344	0.1	450	0.1	551	<.1	606
	1983	0.2	345	0.1	474	0.3	564	0.1	599
	1984	0.3	357	0.1	447	0.1	590	0.1	673
	1985	0.2	364	0.4	472	0.2	575	0.1	648
	1986	0.3	348	0.3	479	0.2	580	0.1	666
	1987	0.1	358	0.6	491	0.5	574	0.2	622
	1988	0.2	351	0.5	480	0.5	585	0.2	632
Spotted seatrout	1975	0.5	374	0.1	491	0.1	489	<.1	602
	1976	1.5	374	0.9	474	0.2	613	0.1	663
	1977	0.6	414	0.1	509	0.1	620	<.1	498
	1978	0.4	377	<.1	453	0.1	616	<.1	721
	1979	0.2	394	0.1	501	<.1	580	<.1	692
	1980	0.2	406	0.1	476	0.1	594	<.1	642
	1981	0.4	406	0.2	525	0.1	612	<.1	557
	1982	0.3	387	0.1	513	0.1	609	<.1	570
	1983	0.3	409	0.2	524	0.1	621	<.1	584
	1984	0.3	391	0.1	522	<.1	619	<.1	607
	1985	0.3	392	0.2	531	0.1	619	<.1	556
	1986	0.6	389	0.3	537	0.1	631	<.1	579
	1987	0.4	387	0.2	535	0.1	637	<.1	572
	1988	0.4	390	0.4	530	0.1	610	<.1	560

Table A.18. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Black drum	1975	<.1	218	0.2	371	0.2	394	0.6	508
	1976	0.1	297	0.2	344	1.1	395	1.0	473
	1977	0.2	241	0.2	360	0.8	403	1.0	482
	1978	<.1	214	0.1	332	0.2	382	0.1	461
	1979	<.1	243	0.1	378	0.2	417	0.2	487
	1980	<.1	236	0.4	346	0.4	405	0.2	496
	1981	0.1	248	0.1	365	0.3	401	0.2	462
	1982	0.1	267	0.8	337	0.7	403	0.3	497
	1983	0.1	288	0.2	365	0.3	432	0.3	479
	1984	<.1	260	0.1	353	0.1	465	0.2	506
	1985	<.1	306	0.1	369	0.2	422	0.2	514
	1986	<.1	271	0.1	380	0.2	439	0.2	491
	1987	<.1	292	0.1	359	0.2	442	0.3	516
	1988	0.1	233	0.1	365	0.2	446	0.2	517
Sheepshead	1975	0.0		0.0		<.1	330	0.1	365
	1976	0.0		0.1	274	0.1	318	0.2	372
	1977	0.0		<.1	256	0.1	333	0.2	384
	1978	<.1	162	<.1	276	<.1	306	<.1	349
	1979	0.0		<.1	280	<.1	361	0.1	373
	1980	<.1	248	0.1	262	0.2	327	0.1	368
	1981	<.1	205	0.1	297	0.1	327	0.1	361
	1982	<.1	266	0.1	289	0.2	333	0.1	357
	1983	<.1	225	<.1	313	0.2	333	0.1	368
	1984	<.1	355	<.1	306	<.1	333	<.1	380
	1985	<.1	324	<.1	304	<.1	352	<.1	413
	1986	<.1	398	<.1	274	<.1	334	<.1	403
	1987	<.1	318	<.1	260	0.1	326	0.1	389
	1988	0.0		<.1	307	0.1	354	0.1	422

Table A.18. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Southern flounder	1975	<.1	205	<.1	278	0.1	355	<.1	462
	1976	0.0		<.1	362	0.1	388	<.1	419
	1977	0.0		<.1	367	<.1	330	<.1	373
	1978	0.0		<.1	281	<.1	348	0.0	
	1979	<.1	370	<.1	279	<.1	361	0.1	417
	1980	<.1	224	<.1	628	0.1	374	<.1	446
	1981	<.1	300	<.1	336	<.1	387	<.1	410
	1982	<.1	283	0.1	314	0.1	373	<.1	433
	1983	<.1	363	<.1	356	<.1	377	<.1	424
	1984	<.1	225	<.1	283	<.1	321	<.1	396
	1985	<.1	269	<.1	305	<.1	358	<.1	387
	1986	<.1	344	0.1	321	<.1	380	<.1	419
	1987	<.1	435	<.1	373	<.1	392	<.1	434
	1988	<.1	456	<.1	344	<.1	377	<.1	451
Atlantic croaker	1975	<.1	312	0.1	351	0.0		0.0	
	1976	0.1	278	0.2	345	<.1	377	0.0	
	1977	<.1	295	0.1	355	0.0		<.1	386
	1978	<.1	240	<.1	377	0.0		0.0	
	1979	<.1	273	0.1	344	<.1	404	0.0	
	1980	0.2	273	<.1	366	<.1	406	0.0	
	1981	0.3	295	0.1	348	<.1	375	<.1	276
	1982	0.1	296	0.1	354	<.1	393	0.0	
	1983	0.3	286	0.2	348	<.1	435	0.0	
	1984	0.1	262	<.1	312	<.1	237	0.0	
	1985	0.3	269	<.1	378	<.1	330	0.0	
	1986	0.2	282	0.1	340	<.1	308	<.1	302
	1987	0.1	287	0.2	376	<.1	281	0.0	
	1988	0.1	286	0.2	343	<.1	308	<.1	246

Table A.18. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Sand seatrout	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		<.1	326
	1981	<.1	341	<.1	292	<.1	300	0.0	
	1982	<.1	307	<.1	306	<.1	303	0.0	
	1983	<.1	325	<.1	237	<.1	361	<.1	293
	1984	<.1	323	<.1	288	<.1	296	<.1	290
	1985	<.1	332	<.1	329	<.1	302	0.0	
	1986	0.0		0.0		<.1	282	<.1	276
	1987	0.0		<.1	367	<.1	324	0.0	
	1988	0.0		<.1		<.1	328	0.0	
Gafftopsail catfish	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		<.1	282
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	322	<.1	313	<.1	316	<.1	262
	1982	0.0		0.0		0.0		0.0	
	1983	0.0		<.1	385	<.1	480	0.0	
	1984	0.0		0.0		<.1	315	0.0	
	1985	0.0		0.0		<.1	511	0.0	
	1986	<.1	346	<.1	371	0.0		0.0	
	1987	0.0		<.1	366	<.1	508	<.1	321
	1988	0.0		0.0		0.0		0.0	

Table A.18. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Gulf menhaden	1975	0.0		0.1	312	0.0		0.0	
	1976	<.1	258	<.1	310	<.1	255	0.0	
	1977	0.1	217	<.1	170	0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	<.1	266	<.1	321	0.0		0.0	
	1980	0.0		0.1	325	0.0		0.0	
	1981	<.1	253	<.1	327	<.1	268	<.1	255
	1982	<.1	257	<.1	221	0.0		0.0	
	1983	<.1	248	<.1	287	0.0		<.1	280
	1984	0.1	245	0.1	322	<.1	271	<.1	293
	1985	<.1	250	<.1	319	<.1	259	0.0	
	1986	<.1	210	<.1	336	<.1	256	<.1	260
	1987	0.0		<.1	336	<.1	220	<.1	222
	1988	<.1	254	<.1	329	<.1	454	0.0	
Hardhead catfish	1975	0.2	304	0.0		0.1	282	0.0	
	1976	0.3	318	0.2	242	0.1	294	<.1	307
	1977	0.4	309	0.2	323	0.1	373	0.0	
	1978	0.4	325	0.1	347	0.1	413	<.1	375
	1979	0.3	332	0.1	351	<.1	309	<.1	340
	1980	0.2	331	0.2	343	0.1	304	<.1	307
	1981	0.3	329	0.2	369	0.1	374	0.1	329
	1982	0.3	317	0.3	349	0.1	327	0.1	328
	1983	0.5	337	0.3	380	0.1	353	<.1	344
	1984	0.4	321	0.3	345	0.1	322	0.1	316
	1985	0.5	321	0.3	320	0.1	297	<.1	315
	1986	0.4	330	0.3	382	0.1	375	<.1	336
	1987	0.1	338	0.2	377	0.1	378	0.1	368
	1988	0.4	328	0.5	349	0.2	345	0.1	340

Table A.18. (Cont'd.)

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pinfish	1975	0.0		0.0		0.0		0.0	
	1976	<.1	220	0.0		0.0		0.0	
	1977	0.1	209	0.0		0.0		0.0	
	1978	0.0		<.1	230	0.0		0.0	
	1979	<.1	218	0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	<.1	198	<.1	268	<.1	285	0.0	
	1982	<.1	239	0.0		0.0		0.0	
	1983	<.1	212	<.1	155	0.0		0.0	
	1984	<.1	172	0.0		0.0		0.0	
	1985	<.1	182	0.0		0.0		0.0	
	1986	<.1	143	0.0		0.0		0.0	
	1987	<.1	192	<.1	157	<.1	211	0.0	
	1988	<.1	170	<.1	185	<.1	271	0.0	
Spot	1975	0.2	236	0.0		0.0		0.0	
	1976	0.3	235	0.2	291	0.0		0.0	
	1977	0.3	245	<.1	294	0.0		0.0	
	1978	0.1	223	0.0		0.0		0.0	
	1979	0.1	241	<.1	316	0.0		0.0	
	1980	<.1	250	0.0		0.0		0.0	
	1981	0.1	234	<.1	271	0.0		0.0	
	1982	0.2	242	<.1	294	0.0		0.0	
	1983	0.1	239	<.1	273	<.1	259	0.0	
	1984	<.1	231	0.0		0.0		0.0	
	1985	0.3	230	<.1	257	0.0		0.0	
	1986	0.2	241	<.1	282	0.0		0.0	
	1987	0.1	235	<.1	266	0.0		0.0	
	1988	0.2	237	<.1	293	<.1	230	<.1	217

Table A.18. (Cont'd.)

Species	Year	Mesh size: 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Striped mullet	1975	0.4	321	0.1	406	0.0		0.0	
	1976	0.6	329	1.2	414	0.2	497	0.0	
	1977	0.4	327	0.2	407	0.0		0.0	
	1978	0.1	318	0.2	417	0.0		<.1	342
	1979	0.2	338	0.1	413	<.1	401	0.0	
	1980	0.3	330	0.1	402	0.0		<.1	330
	1981	0.6	341	0.3	408	<.1	358	<.1	382
	1982	0.2	346	0.2	408	<.1	380	<.1	374
	1983	0.3	341	0.3	409	<.1	448	<.1	350
	1984	0.3	333	0.1	419	<.1	371	<.1	300
	1985	0.2	331	0.1	428	<.1	434	0.0	
	1986	0.4	330	0.2	414	<.1	466	0.0	
	1987	0.2	330	0.2	420	<.1	391	0.0	
	1988	0.1	341	0.3	420	0.0		<.1	412
Other finfishes	1975	<.1	423	0.8	348	0.1	475	<.1	452
	1976	0.3	356	0.6	370	0.2	445	0.1	425
	1977	0.5	351	0.3	363	0.1	548	0.1	516
	1978	0.2	354	0.4	335	0.1	602	0.1	711
	1979	0.2	395	0.2	364	0.1	499	<.1	731
	1980	0.1	350	<.1	436	0.1	384	<.1	463
	1981	0.2	354	0.2	353	0.1	474	0.1	605
	1982	0.2	442	0.3	379	0.1	472	0.1	490
	1983	0.2	426	0.2	366	0.1	451	0.1	447
	1984	0.2	428	0.2	420	0.1	794	0.1	720
	1985	0.2	401	0.2	386	0.1	527	0.1	523
	1986	0.2	391	0.2	341	0.1	423	0.1	620
	1987	0.1	430	0.1	395	0.1	446	0.1	565
	1988	0.2	387	0.2	366	0.1	460	<.1	509

Table A.18. (Cont'd.)

Species	Year	Mesh size 7.6-cm No./h	7.6-cm Length	10.2-cm No./h	10.2-cm Length	12.7-cm No./h	12.7-cm Length	15.2-cm No./h	15.2-cm Length
Total finfishes	1975	1.6	331	1.7	373	0.6	426	0.9	514
	1976	3.5	341	3.8	394	2.2	442	1.6	482
	1977	2.6	327	1.3	380	1.2	428	1.3	446
	1978	1.3	336	1.0	374	0.5	466	0.3	562
	1979	1.4	340	1.0	379	0.6	454	0.5	513
	1980	1.3	338	1.2	390	1.1	418	0.6	452
	1981	2.3	331	1.4	393	1.0	443	0.8	474
	1982	1.8	338	2.0	370	1.4	418	0.6	457
	1983	2.0	340	1.5	396	1.2	463	0.8	466
	1984	1.9	344	1.2	397	0.6	500	0.5	542
	1985	2.1	331	1.4	404	0.8	463	0.4	512
	1986	2.3	333	1.6	427	0.8	488	0.5	525
	1987	1.1	352	1.6	431	1.1	497	0.8	527
	1988	1.7	326	2.1	404	1.2	476	0.8	512
Blue crab	1983	0.1	143	0.1	145	0.1	151	<.1	150
	1984	<.1	143	0.1	148	0.1	149	<.1	161
	1985	<.1	137	<.1	155	<.1	167	<.1	157
	1986	<.1	148	<.1	145	<.1	153	<.1	156
	1987	<.1	152	0.1	152	<.1	153	<.1	148
	1988	<.1	148	<.1	161	<.1	148	<.1	140

Table A.19. Mean abundances (No./ha) and mean total lengths (mm) of selected finfishes and shellfishes caught with bag seines by bay system during 1988. Blank indicates no measurement taken.

		Bay system																			
		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Species	Month	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	Jan	0		3	32	23	56	0		13	36	3	55	0		0		113	35	18	36
	Feb	7	74	13	74	103	64	10	78	20	77	33	73	0		0		0		15	72
	Mar	10	127	23	75	10	81	17	93	23	64	0		110	37	3	90	63	100	29	71
	Apr	33	106	3	129	11	93	0		8	133	17	111	0		3	101	6	147	6	117
	May	0		0		25	166	8	165	3	90	11	144	6	107	3	150	14	151	6	148
	Jun	17	89	14	173	39	173	3	177	11	177	6	160	3	123	8	140	3	184	9	162
	Jul	8	136	0		0		0		0		6	99	6	152	0		3	179	2	133
	Aug	0		0		0		0		0		0		0		0		0		0	
	Sep	0		0		0		0		0		0		0		0		0		0	
	Oct	11	102	0		75	34	0		0		22	40	0		0		0		6	42
	Nov	14	35	14	46	42	56	0		0		14	42	3	50	0		58	41	14	44
	Dec	50	46	31	52	11	66	0		3	71	11	50	0		31	34	14	43	16	47
Spotted seatrout	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		3	187	3	134	0		1	157
	Apr	0		0		0		0		0		3	112	0		0		0		<1	112
	May	0		0		0		3	160	0		0		0		11	98	8	67	3	95
	Jun	0		0		0		0		0		8	69	0		19	40	0		3	50
	Jul	0		6	59	11	53	14	85	6	42	19	61	19	41	11	44	11	53	10	58
	Aug	0		8	79	58	69	22	82	22	50	22	41	14	59	0		6	140	14	67
	Sep	11	77	8	120	67	69	3	58	17	86	78	50	6	103	0		8	104	19	68
	Oct	25	80	39	83	22	108	11	109	14	77	189	78	6	69	6	61	8	54	40	80
	Nov	44	96	6	114	6	96	0		22	71	0		33	65	8	89	0		9	81
	Dec	0		8	94	3	112	3	170	0		0		0		0		0		2	108
Black drum	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		0		0		0		0		3	195	0		0		<1	195
	May	0		0		0		3	45	0		0		0		14	99	0		2	88
	Jun	0		11	72	22	61	6	71	0		0		6	69	33	75	0		8	72
	Jul	0		31	103	14	109	14	115	6	96	19	116	3	117	14	67	11	129	15	106
	Aug	3	128	14	135	8	102	33	136	0		3	110	6	160	19	92	6	178	12	127
	Sep	3	132	6	122	3	110	11	160	14	139	6	179	0		11	146	6	175	7	149
	Oct	8	146	0		6	171	3	95	0		0		0		0		0		1	129
	Nov	0		0		0		0		3	170	C		6	122	C		3	204	1	160
	Dec	6	162	0		0		3	156	0		0		0		0		0		<1	158

Table A.19. (Cont'd.)

Species	Month	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Sheeps-head	Jan	0		0		0		3	120	0		0		0		0		0		<1	120
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		0		0		0		0		0		0		0		0	
	May	0		0		0		0		0		0		0		0		0		0	
	Jun	0		0		14	30	0		0		0		0		0		0		<1	30
	Jul	0		3	60	0		0		11	40	6	48	36	35	0		0		6	40
	Aug	0		0		3	71	0		0		3	70	0		0		3	40	1	57
	Sep	0		0		6	146	0		6	92	0		0		0		0		1	104
	Oct	0		0		0		3	127	0		0		0		0		0		<1	127
	Nov	0		0		3	107	0		3	63	0		0		0		0		<1	73
	Dec	0		0		0		0		0		0		0		0		0		0	
Southern flounder	Jan	0		0		0		0		3	141	0		0		0		0		<1	141
	Feb	0		33	45	0		0		0		0		0		0		33	27	11	38
	Mar	53	39	70	43	10	54	3	45	3	45	50	41	3	28	0		13	43	26	42
	Apr	19	53	31	63	17	62	11	72	11	41	8	55	0		0		6	40	12	59
	May	11	50	25	58	0		3	49	6	49	6	44	3	62	6	60	0		8	55
	Jun	14	74	8	118	3	99	6	74	6	88	3	59	0		0		17	132	6	107
	Jul	42	74	6	128	0		6	124	0		0		0		0		0		4	103
	Aug	33	82	0		6	84	6	102	0		0		0		0		0		2	90
	Sep	8	120	3	95	3	185	3	125	0		3	121	3	105	0		0		2	115
	Oct	3	109	3	190	0		0		3	137	0		0		0		0		1	165
	Nov	0		3	156	0		0		0		0		0		0				1	156
	Dec	3	112	0		0		0		0		0		0		0		0		<1	112
Atlantic croaker	Jan	43	47	10	24	583	38	56	29	0		0		0		0		3	45	31	36
	Feb	123	43	667	40	213	40	70	36	7	34	3	21	13	28	0		3	46	164	40
	Mar	127	45	3877	44	290	43	53	67	7	48	7	32	20	48	0		127	64	850	45
	Apr	850	62	94	51	608	64	93	67	67	63	0		8	51	0		14	75	94	60
	May	272	78	1175	72	86	75	183	75	0		25	63	6	90	0		22	59	292	72
	Jun	142	73	189	94	75	72	69	106	33	103	0		3	139	0		3	70	62	94
	Jul	169	87	78	122	11	96	111	126	0		0		0		0		6	131	40	118
	Aug	61	107	64	127	3	161	36	152	0		0		0		0		0		21	131
	Sep	14	127	14	153	0		3	185	0		0		0		0		0		4	153
	Oct	14	130	0		14	136	3	120	11	44	0		6	94	0		14	34	5	69
	Nov	6	90	0		31	45	17	36	19	48	3	25	14	41	0		0		7	42
	Dec	0		167	32	111	30	33	27	3	34	3	26	25	38	0		0		46	32

Table A.19. (Cont'd.)

Species	Month	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Sand seatrout	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		306	33	3	88	0		0		0		0		0		10	36
	May	6	49	42	46	56	55	47	64	0		0		0		0		0		17	54
	Jun	39	50	11	65	6	58	3	88	0		0		0		0		0		4	61
	Jul	8	63	0		8	56	3	73	0		0		0		0		0		1	65
	Aug	0		0		3	111	0		0		0		0		0		0		<1	111
	Sep	3	32	3	95	17	53	3	72	0		0		0		0		0		2	71
	Oct	0		3	62	39	52	11	61	6	68	0		0		0		0		4	60
	Nov	6	82	0				0		0		0		0		0		0		<1	82
	Dec	0		0		0		0		0		0		0		0		0		0	
Gafftopsail catfish	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		0		0		0		0		0		0		0		0	
	May	0		0		0		0		0		0		0		0		0		0	
	Jun	0		0		0		0		0		0		0		0		0		0	
	Jul	3	107	0		0		0		0		0		0		0		0		<1	107
	Aug	0		0		0		0		0		0		0		0		0		0	
	Sep	0		0		0		0		0		0		0		0		0		0	
	Oct	0		0		0		0		0		0		0		0		0		0	
	Nov	0		0		0		0		0		0		0		0		0		0	
	Dec	0		0		0		0		0		0		0		0		0		0	
Gulf menhaden	Jan					3	33	0		0		0		0		0		0		<1	33
	Feb	0		387	35	0		0		0		0		0		140	31	0		96	34
	Mar	23	32	60	29	0		170	42	0		0		0		47	30	40	28	48	35
	Apr	817	43	78	49	564	33	6	34	3	43	61	32	0		0		44	29	81	40
	May	4917	39	29333	45	836	35	6	50	0		778	27	3	27	3	22	344	34	6487	44
	Jun	397	39	58	52	3603	43	1125	62	0		3	33	0		0		511	38	374	50
	Jul	681	48	275	65	25	53	428	68	0		69	60	3	60	0		0		156	63
	Aug	33	55	36	47	0		444	54	0		6	40	0		0		0		74	54
	Sep	14	73	36	57	0		0		0		3	31	0		0		0		8	57
	Oct	25	82	3	84	8	61	0		0		3	53	0		0		0		2	75
	Nov	0		0		0		0		0		0		0		0		0		0	
	Dec	0		0		0		2022	60	0		0		0		0		0		292	60

Table A.19. (Cont'd.)

Species	Month	Bay system																	
		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
Hardhead catfish	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		3	153	0		0		0		0		0		<1	153
	Apr	0		0		36	113	56	103	0		0		0		0		6	94	10	104
	May	0		3	100	0		11	159	0		6	142	0		0		31	138	7	140
	Jun	19	157	3	139	14	117	3	118	0		25	127	0		0		8	142	7	133
	Jul	3	197	8	68	6	111	64	131	0		0		0		0		3	77	12	120
	Aug	33	73	186	95	25	116	64	131	6	168	0		11	84	0		267	77	86	92
	Sep	0		17	142	103	142	89	103	8	100	17	94	33	93	0		81	101	36	109
	Oct	0		28	91	69	116	19	118	3	96	8	92	0		0		69	89	19	95
	Nov	0		0		0		3	100	0		0		0		0		3	95	1	98
	Dec	0		0		0		0		0		0		0		0		0		0	
Pinfish	Jan	0		0		3	30	0		7	34	7	31	0		0		20	22	4	26
	Feb	0		20	34	13	36	43	32	0		3	34	40	30	3	93	17	35	17	34
	Mar	0		193	39	70	34	0		273	33	0		27	32	93	28	153	44	106	37
	Apr	3	31	439	45	367	37	33	37	106	47	1706	39	492	39	542	38	361	49	499	41
	May	17	53	133	56	994	48	67	54	469	57	867	41	628	46	342	49	1436	60	517	52
	Jun	3	93	467	67	1781	65	72	66	1131	66	1214	71	1031	55	1303	47	2686	54	1038	59
	Jul	25	87	53	85	714	77	114	78	436	69	772	73	7903	54	497	66	1181	64	1099	60
	Aug	17	84	125	104	164	73	97	105	161	66	1600	76	536	66	161	87	408	66	396	76
	Sep	22	109	39	101	186	94	36	110	186	92	311	93	456	67	592	97	825	66	295	81
	Oct	0		28	100	8	89	39	105	47	90	133	96	131	79	64	106	361	77	100	86
	Nov	0		3	120	3	125	0		58	87	164	78	67	92	8	107	156	71	56	79
	Dec	0		6	70	0		3	100	0		0		8	69	0		14	65	4	71
Spot	Jan	7	29	0		7	36	0		0		0		0		0		3	20	1	26
	Feb	0		0		0		143	39	10	38	0		0		7	22	87	24	34	34
	Mar	13	42	0		17	44	77	54	1007	41	147	40	33	48	487	30	1513	45	398	42
	Apr	17	62	769	59	950	56	463	55	163	51	1675	49	213	50	1081	40	586	60	717	52
	May	83	73	1317	67	447	64	425	70	83	58	986	55	522	61	256	67	919	72	687	65
	Jun	89	70	150	70	447	71	142	75	308	75	839	66	464	70	556	84	147	83	339	73
	Jul	103	73	122	87	131	79	75	87	75	79	372	89	208	71	11	100	28	99	126	85
	Aug	50	93	67	90	283	81	44	102	3	31	79	80	328	70	33	90	8	116	76	82
	Sep	58	96	161	94	78	86	0		39	117	72	100	36	78	78	90	72	109	74	97
	Oct	42	105	22	98	0		0		0		0		8	116	8	97	3	80	8	100
	Nov	50	104	22	116	53	106	0		3	98	11	94	3	99	0		0		10	108
	Dec	0		0		3	95	0		0		0		6	105	0		0		1	103

Table A.19. (Cont'd.)

Species	Month	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
Striped mullet	Jan	33	39	7	28	107	90	30	35	17	130	480	33	63	26	20	26	0		84	37
	Feb	7	150	40	57	33	31	170	26	0		27	28	563	31	320	31	17	29	125	32
	Mar	0		13	62	7	33	30	147	7	136	277	41	153	71	113	33	3	133	72	54
	Apr	25	104	22	74	17	55	147	41	0		53	28	6	96	11	77	0		36	47
	May	96	66	406	137	14	167	11	106	3	153	8	153	8	38	75	61	67	69	108	123
	Jun	92	64	594	98	306	73	69	90	11	112	103	43	39	78	150	84	19	95	185	90
	Jul	153	76	28	119	25	139	14	128	36	93	44	108	1378	48	31	136	122	159	163	69
	Aug	44	109	28	137	136	90	50	116	44	101	56	115	28	109	28	134	39	147	42	118
	Sep	6	91	3	117	42	133	6	118	58	131	44	124	17	124	56	130	31	126	27	127
	Oct	19	83	94	124	8	158	0		0		3	133	11	132	0		8	179	23	126
	Nov	31	130	94	152	114	112	3	95	6	144	3	130	33	123	8	137	3	182	30	143
	Dec	8	122	6	167	11	114	14	141	3	162	0		0		0		0		4	146
Other finfishes	Jan	48	71	10	30	860	53	160	45	950	45	720	35	160	41	570	63	383	52	387	47
	Feb	117	81	583	74	320	49	70	71	1267	43	727	47	490	62	1037	52	1283	41	712	52
	Mar	113	52	167	57	263	41	80	108	817	56	827	48	943	52	500	42	2913	58	774	55
	Apr	133	81	1881	63	211	68	161	100	517	66	6864	83	819	42	4181	43	353	70	1993	67
	May	208	63	761	84	297	69	672	84	986	64	1589	35	300	86	775	58	764	72	810	64
	Jun	219	66	1044	48	1406	68	253	80	336	68	1031	51	431	65	4611	41	1392	62	1221	50
	Jul	128	100	1131	59	1292	60	269	102	894	58	2647	60	2808	52	1019	47	1408	74	1385	60
	Aug	328	57	358	91	1164	59	328	127	547	79	2142	57	3497	56	1086	48	1747	71	1172	65
	Sep	867	66	967	79	603	77	72	95	453	63	1500	53	950	52	1372	60	942	76	875	65
	Oct	589	51	294	73	350	67	78	83	372	57	1628	53	319	60	1086	56	767	67	615	59
	Nov	192	71	600	75	278	56	283	66	3308	49	1675	49	339	57	906	45	356	90	962	55
	Dec	75	59	428	61	869	44	342	76	1128	52	1808	45	475	50	1608	38	186	51	787	49
Total finfishes	Jan	130	52	30	28	1587	52	250	41	990	46	1210	37	223	36	590	62	523	47	527	45
	Feb	253	64	1743	56	683	47	507	39	1303	44	793	48	1107	45	1507	46	1440	39	1175	47
	Mar	340	48	4403	47	667	42	433	71	2137	50	1307	46	1293	51	1247	40	4826	40	2306	50
	Apr	1897	59	3317	57	3086	55	964	76	875	61	10386	50	1542	44	5817	42	1375	59	3460	52
	May	5583	56	33194	74	2756	61	1439	79	1550	62	4275	41	1475	65	1483	60	3606	69	8945	70
	Jun	1031	63	2550	73	7714	67	1750	81	1836	68	3231	61	1975	63	6681	49	4786	59	3256	62
	Jul	1322	80	1739	70	2236	70	1111	102	1464	65	3956	66	12364	55	2183	53	2761	76	3018	65
	Aug	603	73	886	97	1853	68	1125	111	783	78	3908	65	4419	59	1328	56	2483	74	1895	72
	Sep	1006	71	1256	83	1106	88	225	106	781	80	2033	70	1500	60	2108	71	1964	79	1350	76
	Oct	736	61	514	88	547	69	167	94	456	62	1986	59	481	68	1163	60	1231	72	826	68
	Nov	342	83	741	88	528	74	306	66	3422	50	1869	52	497	67	930	47	578	80	1093	60
	Dec	142	63	644	54	1008	42	2419	80	1136	53	1822	45	514	51	1639	38	214	52	1153	67

Table A.19. (Cont'd.)

Species	Month	Bay system: Sabine Lake No./ha	Sabine Lake Length	Galveston No./ha	Galveston Length	East Matagorda No./ha	East Matagorda Length	Matagorda No./ha	Matagorda Length	San Antonio No./ha	San Antonio Length	Aransas No./ha	Aransas Length	Corpus Christi No./ha	Corpus Christi Length	Upper Laguna Madre No./ha	Upper Laguna Madre Length	Lower Laguna Madre No./ha	Lower Laguna Madre Length	Coastwide No./ha	Coastwide Length
SHELLFISHES																					
Blue crab	Jan	0		33	17	47	19	7	23	7	24	0		0		0		3	16	11	18
	Feb	17	33	83	30	90	24	13	12	7	22	30	27	37	30	0		7	24	32	28
	Mar	33	35	233	42	83	18	0		107	33	53	28	247	54	83	47	220	38	131	41
	Apr	61	63	161	51	508	26	150	31	83	30	47	26	56	37	42	58	278	30	135	36
	May	47	77	619	47	392	39	81	33	178	39	72	39	114	41	81	43	100	45	217	45
	Jun	31	73	117	68	53	87	33	68	31	70	47	47	19	75	128	45	67	35	66	58
	Jul	58	74	61	51	39	59	28	57	86	43	61	43	239	39	36	37	19	73	66	46
	Aug	100	75	258	42	100	46	0		42	52	67	49	72	53	36	35	17	29	87	45
	Sep	11	128	178	43	6	43	0		19	95	117	36	58	62	6	66	61	40	69	45
	Oct	14	64	14	48	228	20	6	32	3	32	81	23	53	43	3	59	111	35	42	32
	Nov	58	47	69	44	100	17	6	21	6	69	61	22	119	34	11	31	39	51	52	38
	Dec	89	51	42	32	8	17	11	16	0		0		61	38	25	16	11	21	24	32
Brown shrimp	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		3	34	3	57	0		23	53	0		3	64	43	53	0		9	52
	Apr	0		64	50	200	37	67	45	6	32	300	38	58	37	358	41	975	52	240	47
	May	761	53	2075	58	1581	51	1261	57	422	57	581	50	1594	67	2125	70	2419	66	1510	62
	Jun	1622	62	2628	68	1919	63	483	74	203	66	1878	62	147	52	5689	78	383	65	1721	71
	Jul	406	73	422	65	744	62	322	69	247	57	611	57	1867	65	414	60	547	70	564	64
	Aug	33	64	569	59	947	59	14	56	169	61	289	63	25	45	69	62	128	58	237	55
	Sep	6	52	117	50	653	57	47	49	253	59	206	62	228	60	0		86	53	140	57
	Oct	22	65	33	63	325	52	117	48	794	43	203	60	350	56	0		319	61	225	52
	Nov	0		6	58	175	51	75	42	253	50	33	55	253	57	0		428	57	128	54
	Dec	3	62	17	49	11	45	3	33	3	50	3	43	11	52	8	47	14	37	872	46
Pink shrimp	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		C		3	29	33	53	7	56	83	53	15	52
	Apr	0		0		0		C		3	38	11	51	13	56	0		0		3	52
	May	0		0		0		0		0		0		0		0		0		0	
	Jun	0		0		0		0		0		0		0		0		0		0	
	Jul	0		0		0		0		0		347	44	36	40	0		0		50	44
	Aug	0		0		0		0		0		0		0		0		0		0	
	Sep	0		0		0		0		0		108	38	17	49	0		3	79	16	40
	Oct	0		0		0		0		0		794	52	253	51	0		0		128	51
	Nov	0		0		0		0		0		292	54	486	51	0		0		81	53
	Dec	0		0		0		0		0		0		381	49	0		0		33	49

Table A.19. (Cont'd.)

Species	Month	Bay system																			
		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
White	Jan	0		0		3	59	0		0		0		0		0		3	21	1	29
shrimp	Feb	0		3	64	0		0		0		0		0		0		0		1	64
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		50	48	0		0		0		0		0		0		0		10	48
	May	14	82	0		0		0		0		0		0		0		0		1	82
	Jun	36	73	0		0		0		3	32	279	38	0		3	161	6	38	40	40
	Jul	392	64	667	60	572	61	597	60	208	44	822	44	558	58	31	40	3797	76	931	66
	Aug	367	66	781	72	1622	68	1664	72	411	51	592	53	194	65	800	51	8	52	705	65
	Sep	3436	53	444	58	1058	68	394	69	317	57	894	62	317	84	0		3	88	500	61
	Oct	1419	76	1147	65	1044	72	933	73	567	52	2139	42	567	52	6	36	1506	71	1056	60
	Nov	3314	67	1719	74	622	54	58	58	425	52	156	55	139	49	0		817	63	701	67
	Dec	181	64	736	57	14	79	275	57	3	33	6	55	3	57	3	26	0		202	57

Table A.20. Monthly mean catch rates (No./h) and mean total lengths (mm) of select finfishes and shellfishes caught with 6.1-m trawls in Texas bay systems during January-December 1988. Blank indicates no measurement taken.

Species	Month	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
FINFISHES																					
Atlantic croaker	Jan	26	153	<1	62	1	57	0		24	66	2	66	11	151	0		<1	146	6	100
	Feb	18	121	1	106	0		<1	140	10	70	35	57	5	95	1	34	1	72	6	75
	Mar	54	151	26	71	<1	33	2	66	41	81	87	79	18	104	0		10	111	26	85
	Apr	120	129	137	91	8	109	15	104	327	110	146	92	44	101	6	57	34	113	114	100
	May	32	140	302	94	54	127	168	114	544	110	355	108	84	116	6	148	41	121	248	105
	Jun	51	114	115	93	14	134	195	121	57	106	300	96	81	120	20	137	82	141	126	108
	Jul	18	136	36	125	39	131	98	129	50	125	154	112	112	130	10	139	16	139	65	125
	Aug	27	132	30	135	25	137	26	133	24	141	77	126	48	140	4	170	34	159	32	136
	Sep	66	135	9	157	8	150	8	153	<1	160	35	139	36	140	5	165	9	142	15	145
	Oct	39	135	8	160	5	174	3	108	1	41	6	150	14	157	2	175	9	178	8	148
	Nov	49	138	10	159	4	131	2	136	<1	49	1	156	3	151	2	155	10	169	7	151
	Dec	36	144	4	57	1	162	0		1	39	1	65	2	102	2	207	<1	285	3	107
Black drum	Jan	<1	259	1	299	0		0		0		0		<1	192	0		0		<1	286
	Feb	<1	358	1	285	0		0		0		0		1	197	<1	242	0		<1	267
	Mar	<1	192	0		0		0		0		0		1	414	1	201	0		<1	297
	Apr	1	350	0		0		0		0		0		0		0		0		<1	350
	May	0		0		0		0		0		0		0		0		0		0	
	Jun	0		0		0		0		0		0		0		0		0		0	
	Jul	0		<1	123	0		0		0		0		0		0		0		<1	123
	Aug	0		0		<1	161	0		<1	154	0		0		4	161	0		<1	161
	Sep	1	190	0		0		0		0		<1	204	0		<1	171	0		<1	183
	Oct	2	254	0		2	202	0		0		0		0		<1	249	0		<1	250
	Nov	<1	487	<1	233	0		<1	170	0		0		<1	353	1	264	0		<1	254
	Dec	3	262	0		0		0		0		0		0		0		0		<1	262
Gafftopsail catfish	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		<1	190	<1	158	0		0		<1	206	0		0		<1	174
	May	0		<1	557	0		0		0		0		0		0		0		<1	557
	Jun	0		0		0		0		0		0		<1	133	0		0		<1	133
	Jul	0		1	100	3	107	14	93	6	104	16	111	<1	60	0		0		6	99
	Aug	0		3	126	10	130	18	121	30	133	15	132	0		0		0		10	127
	Sep	0		0		3	167	4	152	2	151	6	150	0		0		0		2	151
	Oct	0		0		0		<1	192	2	176	1	169	0		0		0		<1	177
	Nov	0		0		0		0		0		0		0		0		0		0	
	Dec	0		0		0		0		0		0		0		0		0		0	

Table A.20. (Cont'd.)

Species	Month	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	Jan	1	118	8	85	4	93	162	90	24	95	22	117	8	130	0		0		43	92
menhaden	Feb	3	98	16	89	<1	105	1	84	5	80	1	83	<1	156	0		0		6	88
	Mar	2	115	9	78	1	90	3	125	3	68	10	54	0		0		0		5	81
	Apr	4	61	63	70	0		8	145	4	85	1	69	1	144	11	53	0		24	75
	May	1	34	88	69	2	101	8	127	10	98	6	141	<1	124	0		0		33	74
	Jun	0		6	90	0		1	147	27	100	3	140	<1	143	0		<1	117	6	100
	Jul	4	67	2	115	1	94	1	123	6	89	1	94	<1	175	0		0		2	101
	Aug	0		10	105	<1	103	3	135	17	96	1	94	1	109	0		0		6	104
	Sep	2	112	17	101	0		5	94	4	101	1	124	4	101	0		0		8	100
	Oct	8	109	3	104	0		2	125	17	111	2	100	<1	116	<1	143	0		4	110
	Nov	2	106	23	99	<1	93	0		4	128	1	134	0		0		0		8	101
	Dec	4	102	21	86	2	102	2	169	11	103	<1	120	0		0		<1	104	9	93
Hardhead	Jan	0		0		0		<1	90	0		0		0		0		0		<1	90
catfish	Feb	0		0		0		0		1	166	1	139	<1	88	0		<1	316	<1	164
	Mar	<1	170	3	184	<1	165	13	117	9	226	16	170	20	202	0		<1	230	8	170
	Apr	3	171	7	172	11	201	13	222	9	196	10	174	21	175	2	224	<1	246	10	192
	May	18	198	3	185	6	196	16	199	2	185	14	224	16	173	6	272	<1	350	8	201
	Jun	25	199	2	203	4	161	9	228	7	197	11	215	24	153	4	213	12	154	9	193
	Jul	9	245	3	193	1	157	20	179	9	189	10	185	32	159	5	206	5	159	11	179
	Aug	5	227	8	136	6	148	15	165	13	159	7	195	16	177	15	152	2	203	11	160
	Sep	8	226	5	96	6	149	6	199	7	153	25	108	17	170	2	226	2	276	8	148
	Oct	2	239	5	111	6	179	7	128	18	122	15	122	26	158	8	237	4	165	10	141
	Nov	0		<1	275	1	380	29	112	8	124	10	124	18	146	0		1	165	10	122
	Dec	0		0		0		0		0		<1	320	1	166	0		<1	240	<1	198
Pinfish	Jan	0		<1	118	<1	105	3	94	3	93	1	84	702	122	10	100	15	105	73	121
	Feb	0		<1	119	<1	112	0		1	98	6	87	280	112	36	130	65	107	34	113
	Mar	0		<1	108	0		2	108	1	97	67	99	90	121	4	106	61	97	18	110
	Apr	0		<1	145	<1	130	4	112	5	104	27	103	140	116	3	117	35	103	19	113
	May	0		0		0		11	118	29	76	33	119	95	120	2	159	142	94	24	107
	Jun	8	92	1	93	4	83	18	107	46	90	113	96	93	121	11	106	35	119	31	105
	Jul	6	104	12	99	1	106	74	106	88	100	429	95	466	100	31	112	146	84	120	99
	Aug	11	132	4	111	18	96	13	108	127	102	268	98	123	108	30	123	48	108	58	104
	Sep	8	143	1	127	10	117	40	114	86	102	208	106	192	112	69	101	60	102	62	108
	Oct	7	153	6	134	14	111	34	118	93	101	163	104	325	122	16	110	118	108	73	114
	Nov	1	163	4	142	10	115	10	122	593	108	129	109	194	118	27	109	25	113	113	111
	Dec	0		0		<1	135	6	102	34	104	224	96	560	112	3	123	35	112	82	108

Table A.20. (Cont'd.)

Species	Month	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	Jan	0		0		0		0		0		0		0		0		<1	65	<1	65
	Feb	0		4	53	0		0		0		0		0		0		0		1	53
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		0		0		0		0		0		0		0		0	
	May	0		0		0		0		0		0		0		0		0		0	
	Jun	0		0		0		0		0		0		0		0		0		0	
	Jul	<1	272	0		0		0		0		0		0		0		0		<1	272
	Aug	0		0		0		0		0		0		0		0		0		0	
	Sep	0		0		0		0		0		0		0		0		0		0	
	Oct	0		0		0		0		0		0		0		0		<1	349	<1	349
	Nov	0		0		0		0		0		0		0		0		1	408	<1	408
	Dec	0		0		0		0		0		<1	23	0		0		0		<1	23
Sand seatrout	Jan	<1	132	0		0		0		<1	111	0		4	173	0		0		<1	167
	Feb	0		0		0		0		0		<1	173	<1	165	0		0		<1	167
	Mar	0		<1	128	0		<1	140	<1	131	<1	90	<1	120	0		0		<1	130
	Apr	0		2	137	0		7	125	0		2	133	<1	140	0		<1	83	2	128
	May	<1	198	2	108	1	56	4	127	<1	120	2	122	6	147	0		2	187	2	128
	Jun	2	122	2	76	0		3	151	1	87	6	91	10	90	0		0		3	101
	Jul	<1	102	6	142	4	79	7	99	<1	154	5	132	13	121	0		0		6	124
	Aug	1	134	2	159	6	113	1	142	0		0		2	157	0		0		1	153
	Sep	4	156	4	106	2	152	2	143	0		1	115	1	174	0		0		2	123
	Oct	1	109	6	85	4	166	1	169	<1	248	4	81	<1	96	0		1	51	3	94
	Nov	<1	171	11	92	<1	156	<1	97	1	101	1	96	2	104	0		0		4	94
	Dec	0		1	99	0		<1	213	<1	110	0		1	123	<1	109	<1	86	1	114
Sheepshead	Jan	0		<1	473	0		0		0		0		<1	203	0		<1	138	<1	367
	Feb	<1	360	0		0		0		0		0		0		0		0		<1	360
	Mar	0		0		0		0		0		<1	79	0		0		<1	165	<1	123
	Apr	<1	285	0		0		0		0		0		<1	132	0		0		<1	159
	May	<1	224	0		0		0		0		0		0		1	178	0		<1	182
	Jun	2	310	0		0		0		<1	36	0		0		0		0		<1	218
	Jul	0		<1	159	0		0		0		0		0		0		0		<1	159
	Aug	0		0		0		0		0		0		0		0		0		0	
	Sep	0		0		0		0		<1	83	0		0		0		0		<1	83
	Oct	1	388	0		0		<1	112	0		0		0		<1	475	0		<1	323
	Nov	<1	348	0		0		0		1	80	<1	102	0		0		0		<1	110
	Dec	0		<1	530	0		0		<1	100	0		0		<1	157	0		<1	359

Table A.20. (Cont'd.)

Species	Month	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	Jan	<1	292	1	262	0		0		0		<1	210	<1	290	<1	192	<1	171	<1	248
	Feb	<1	279	0		<1	180	0		<1	248	<1	220	1	254	0		0		<1	245
	Mar	<1	260	0		0		0		1	192	1	211	0		0		0		<1	207
	Apr	1	121	0		<1	100	0		1	91	2	101	0		0		0		<1	101
	May	1	128	0		0		0		10	97	1	137	1	185	0		0		2	109
	Jun	1	110	0		0		0		3	118	3	132	1	178	<1	268	<1	110	1	140
	Jul	1	126	<1	142	1	124	0		1	122	5	156	1	210	0		<1	150	1	152
	Aug	<1	116	<1	82	0		<1	138	1	184	<1	175	0		<1	266	0		<1	157
	Sep	4	117	0		0		0		1	177	2	218	<1	201	0		<1	390	<1	182
	Oct	2	132	0		0		<1	169	0		1	203	0		1	254	0		<1	196
	Nov	0		<1	183	0		0		1	133	1	216	0		0		0		<1	170
	Dec	2	176	<1	225	0		0		0		<1	143	0		1	176	0		<1	187
Spanish mackerel	Jan	0		0		0		0		0		0		0		0		0		0	
	Feb	0		0		0		0		0		0		0		0		0		0	
	Mar	0		0		0		0		0		0		0		0		0		0	
	Apr	0		0		0		0		0		0		0		0		0		0	
	May	0		0		0		0		0		0		0		0		0		0	
	Jun	0		<1	67	0		0		0		0		0		0		0		<1	67
	Jul	<1	155	<1	194	0		0		0		0		0		0		0		<1	192
	Aug	<1	178	<1	178	0		0		0		0		0		0		0		<1	178
	Sep	0		0		0		0		0		0		0		0		0		0	
	Oct	0		1	164	0		0		0		0		0		0		0		<1	164
	Nov	0		0		0		0		0		0		0		0		0		0	
	Dec	0		0		0		0		0		0		0		0		0		0	
Spot	Jan	9	149	4	136	0		2	124	0		5	143	471	147	<1	175	<1	155	50	146
	Feb	3	147	1	148	1	129	<1	124	1	135	27	132	236	144	1	183	15	146	27	143
	Mar	9	150	17	145	<1	122	30	143	13	139	53	143	49	143	<1	217	25	126	24	143
	Apr	4	152	8	79	1	107	30	146	45	94	134	108	46	146	6	98	10	116	31	116
	May	17	93	40	92	23	96	57	115	313	89	269	100	248	106	2	112	24	104	115	98
	Jun	105	101	11	100	2	104	111	119	141	95	172	99	230	103	6	116	56	107	90	105
	Jul	21	111	10	103	2	114	57	117	280	102	516	112	315	112	9	132	20	116	127	110
	Aug	9	118	20	116	15	105	24	127	156	116	178	117	222	111	4	139	36	114	71	116
	Sep	25	110	2	140	4	126	54	124	250	120	201	133	282	124	3	179	5	116	91	124
	Oct	50	122	8	119	4	120	28	133	32	129	97	136	368	132	2	185	9	150	60	132
	Nov	14	129	19	138	6	129	9	140	131	135	70	139	69	138	4	150	8	135	39	137
	Dec	17	121	26	138	2	107	98	139	32	126	86	137	284	133	10	157	2	143	71	136

Table A.20. (Cont'd.)

Species	Month	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	Jan	1	188	0		<1	341	<1	250	0		8	181	2	168	2	152	<1	148	1	177
	Feb	0		0		0		0		<1	184	2	150	<1	151	<1	167	0		<1	160
	Mar	<1	79	0		0		0		<1	104	3	153	<1	245	1	161	0		<1	155
	Apr	<1	194	0		0		0		0		<1	188	<1	168	<1	180	0		<1	180
	May	<1	154	0		0		<1	315	0		1	181	0		0		0		<1	229
	Jun	0		0		0		0		0		0		0		<1	187	0		<1	187
	Jul	0		0		0		0		0		<1	125	0		0		0		<1	125
	Aug	0		0		0		0		0		0		0		0		0		0	
	Sep	0		0		1	81	0		<1	128	0		0		1	206	0		<1	186
	Oct	0		0		0		0		1	155	<1	111	0		<1	169	<1	42	<1	140
	Nov	0		<1	172	<1	160	0		1	175	4	165	0		0		0		1	169
	Dec	<1	256	0		0		<1	182	<1	166	<1	105	<1	180	<1	215	0		<1	189
Striped mullet	Jan	17	242	16	301	3	153	0		4	135	1	123	20	181	0		0		9	256
	Feb	0		7	264	0		0		0		0		2	173	0		0		2	255
	Mar	<1	243	2	321	<1	204	<1	138	0		3	165	<1	154	0		0		1	259
	Apr	0		<1	359	0		0		0		<1	169	4	228	<1	334	0		1	258
	May	0		0		0		0		0		<1	193	9	179	0		0		1	180
	Jun	0		0		0		0		0		0		<1	170	0		0		<1	170
	Jul	0		0		0		0		3	123	<1	112	0		0		0		<1	122
	Aug	0		0		0		0		<1	132	0		0		0		0		<1	132
	Sep	0		0		0		0		0		<1	208	<1	210	0		0		<1	209
	Oct	0		0		0		0		<1	132	<1	171	0		0		0		<1	147
	Nov	0		<1	401	<1	200	0		0		<1	219	0		0		0		<1	363
	Dec	1	207	0		0		0		0		0		1	158	0		0		<1	179
Other finfishes	Jan	2	72	7	68	4	46	35	75	16	64	36	90	72	106	38	62	23	86	25	82
	Feb	11	46	12	52	4	44	5	90	6	58	96	55	29	99	64	84	48	88	22	71
	Mar	1	124	12	92	4	95	34	77	19	85	102	80	26	102	98	61	58	119	32	80
	Apr	18	30	34	93	10	91	51	100	24	84	53	86	99	82	26	96	38	131	44	92
	May	5	226	49	137	8	112	125	112	31	78	71	91	74	105	22	91	88	120	65	113
	Jun	13	95	30	79	7	147	69	119	40	88	135	80	55	143	24	131	94	143	52	105
	Jul	24	85	52	89	18	113	70	125	42	106	124	102	65	124	21	86	94	147	60	108
	Aug	29	99	43	76	31	149	68	108	65	137	47	115	26	151	31	69	39	141	48	105
	Sep	28	111	30	75	30	94	41	112	61	89	155	84	78	136	59	68	41	135	53	95
	Oct	19	81	27	74	27	118	40	90	82	79	161	78	108	106	22	93	98	121	58	88
	Nov	17	104	60	71	48	97	46	81	63	86	165	82	67	130	39	89	70	122	64	86
	Dec	12	82	38	61	24	102	30	89	26	70	46	78	21	142	36	92	35	124	32	80

Table A.20. (Cont'd.)

Species	Month	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	Jan	59	177	39	191	13	102	202	89	70	80	76	117	1293	138	51	76	42	97	209	127
finfishes	Feb	37	106	43	111	6	90	7	92	26	82	169	69	557	122	103	104	129	105	101	109
	Mar	68	151	69	105	8	105	85	109	88	106	343	101	205	132	104	68	155	114	116	107
	Apr	152	119	251	91	32	137	129	126	415	109	376	105	358	118	56	94	119	116	246	106
	May	76	149	485	101	93	121	388	119	940	100	753	109	534	118	39	134	298	110	499	107
	Jun	209	121	167	91	30	132	407	128	323	102	742	99	497	121	67	134	280	132	318	112
	Jul	85	123	124	109	71	121	341	124	487	111	1261	110	1005	121	77	117	281	115	399	116
	Aug	84	124	122	109	113	129	168	122	434	121	594	117	438	130	88	114	158	129	240	120
	Sep	148	131	70	98	63	117	159	122	413	110	635	120	611	129	140	93	118	121	242	117
	Oct	132	128	64	102	61	132	116	112	247	102	453	107	842	128	54	137	239	121	218	116
	Nov	84	132	130	99	71	110	97	102	805	113	383	105	353	130	74	102	116	129	248	111
	Dec	77	143	91	91	29	105	136	120	107	100	360	107	870	125	54	114	75	121	139	115
SHELLFISHES																					
Blue crab	Jan	2	105	5	75	<1	88	<1	25	9	62	20	42	5	44	4	89	1	162	5	61
	Feb	11	126	7	42	2	127	1	39	59	47	113	47	3	97	8	89	5	132	21	52
	Mar	8	121	8	55	6	58	4	44	214	56	178	46	8	59	7	114	49	76	49	55
	Apr	4	101	34	69	18	67	1	102	193	68	71	65	10	63	5	112	57	63	46	68
	May	5	153	14	68	39	79	4	95	383	85	77	66	20	88	16	89	32	75	66	82
	Jun	10	151	10	90	25	105	5	100	103	84	117	97	18	104	14	112	19	106	31	93
	Jul	1	88	10	88	38	96	11	97	20	108	48	79	7	97	12	87	13	91	14	91
	Aug	3	153	4	82	8	100	<1	108	29	93	10	80	5	103	10	110	16	116	8	95
	Sep	8	154	3	89	4	69	<1	120	18	89	19	79	4	110	0		8	117	6	94
	Oct	3	158	3	81	10	124	11	56	8	93	10	91	2	122	2	81	8	105	6	79
	Nov	4	167	8	62	2	87	2	42	18	98	19	44	3	104	4	101	2	104	8	74
	Dec	4	116	5	68	2	157	<1	110	8	88	6	67	<1	162	2	73	0		4	79
Brown	Jan	0		0		<1	60	0		1	63	<1	89	5	93	5	85	1	70	1	85
shrimp	Feb	0		0		0		0		<1	75	<1	84	<1	88	<1	82	0		<1	84
	Mar	0		0		0		<1	77	3	83	4	80	4	94	6	94	0		1	89
	Apr	0		2	75	0		4	106	50	68	5	94	5	107	5	96	2	80	9	77
	May	2	66	167	75	19	85	69	93	872	91	480	82	45	83	23	93	5	66	228	86
	Jun	12	88	56	94	16	82	56	95	231	93	516	88	55	88	2	108	6	85	108	91
	Jul	6	90	28	109	78	96	197	107	156	103	134	89	39	90	3	106	3	84	88	103
	Aug	2	108	7	109	1	92	11	106	25	102	53	88	5	98	1	108	0		13	100
	Sep	1	87	11	89	0		3	89	22	89	72	88	10	97	2	92	6	68	14	89
	Oct	6	76	4	96	2	65	17	92	48	88	116	91	10	92	6	104	9	65	23	91
	Nov	3	77	12	84	2	59	10	85	61	86	261	86	12	90	8	83	2	69	37	86
	Dec	<1	70	0		0		11	80	18	85	19	86	9	91	2	65	2	88	8	84

Table A.20. (Cont'd.)

Species	Month	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
Pink shrimp	Jan	0		0		0		0		0		1	58	1	94	<1	58	<1	73	<1	71
	Feb	0		0		0		0		<1	64	12	88	5	93	0		0		2	89
	Mar	0		0		0		<1	53	13	77	20	72	20	94	3	69	11	79	6	81
	Apr	0		0		2	110	1	106	6	94	42	86	30	96	0		<1	91	8	92
	May	0		0		0		1	125	19	90	46	82	9	101	<1	123	8	69	7	88
	Jun	0		0		0		0		0		0		1	83	0		0		<1	83
	Jul	0		0		0		0		0		0		0		0		0		0	
	Aug	0		0		0		0		<1	102	0		0		0		0		<1	102
	Sep	0		0		0		0		<1	84	11	86	<1	82	<1	83	<1	106	1	86
	Oct	0		0		0		3	67	0		47	82	10	91	0		2	75	5	82
	Nov	0		7	79	0		14	90	27	87	56	79	17	85	0		2	94	15	84
	Dec	0		0		0		0		3	71	9	78	7	86	<1	76	0		2	80
White shrimp	Jan	0		1	75	0		<1	66	2	72	4	73	14	106	0		0		2	92
	Feb	0		<1	98	0		0		0		<1	76	4	100	<1	109	0		1	99
	Mar	1	82	2	90	0		0		0		1	71	4	96	0		0		1	90
	Apr	3	80	5	114	4	115	<1	126	1	98	<1	122	7	116	1	116	0		3	113
	May	5	99	4	130	<1	135	1	128	2	71	<1	165	<1	152	0		0		2	121
	Jun	0		8	115	0		0		0		<1	163	<1	156	0		0		3	116
	Jul	<1	86	6	97	4	75	0		1	80	11	80	39	81	0		0		7	85
	Aug	86	104	22	101	17	93	26	95	232	97	5	95	3	98	<1	90	0		48	98
	Sep	240	113	13	103	16	101	20	113	55	100	20	102	18	103	8	98	0		30	107
	Oct	93	104	25	95	22	104	50	107	12	111	14	108	9	109	13	120	0		27	104
	Nov	6	82	158	86	28	87	79	89	108	90	91	90	40	93	11	90	<1	89	96	88
	Dec	31	86	11	82	4	74	12	93	74	83	40	86	9	90	4	77	3	77	22	85

Table A.21. Monthly mean catch rates (No./h) and mean total lengths (mm) of select finfishes and shellfishes caught with 6.1-m trawls in the Texas Territorial Sea during January-December 1988.

Species	Month	Sabine		Galveston		Port O'Connor		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	Jan	4	78	1	138	5	72	0		0		2	80
	Feb	12	86	1	58	1	173	0		0		3	91
	Mar	3	82	3	62	0		0		0		1	72
	Apr	42	87	2	73	5	81	1	80	0		10	86
	May	29	106	39	96	15	101	1	148	0		17	101
	Jun	411	116	220	116	479	125	215	125	20	126	274	121
	Jul	284	128	539	117	449	136	22	132	0		267	126
	Aug	43	130	112	134	64	149	26	151	4	136	51	139
	Sep	112	143	14	142	46	159	6	171	0		36	148
	Oct	4	161	1	185	6	103	2	178	<1	176	3	142
	Nov	1	94	0		1	165	4	163	0		1	156
	Dec	<1	161	<1	32	1	166	0		0		<1	131
Black drum	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		<1	752	0		0		0		<1	752
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Gafftopsail catfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		<1	180	<1	180
	Mar	0		<1	194	0		0		0		<1	194
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	7	103	0		0		0		0		1	103
	Aug	9	120	0		0		0		0		2	120
	Sep	4	140	1	153	1	168	0		0		1	148
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
										0		0	

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf menhaden	Jan	6	118	1	118	46	97	0		0		11	100
	Feb	2	156	1	95	5	101	0		0		2	115
	Mar	4	121	<1	135	0		0		0		1	122
	Apr	15	118	7	116	0		2	111	0		5	117
	May	1	138	0		1	205	1	143	0		<1	160
	Jun	14	116	<1	140	1	162	0		0		3	121
	Jul	2	122	107	49	2	158	0		0		23	52
	Aug	0		0		0		0		0		0	
	Sep	8	122	2	125	13	125	0		0		5	124
	Oct	4	154	0		1	71	0		0		1	133
	Nov	1	143	<1	123	0		0		0		<1	138
	Dec	1	156	1	105	1	114	0		0		1	127
Hardhead catfish	Jan	0		0		9	100	2	149	<1	258	2	114
	Feb	0		0		3	100	12	191	0		3	171
	Mar	<1	176	1	162	48	144	15	162	0		13	148
	Apr	3	170	1	261	<1	250	0		0		1	201
	May	15	256	2	254	<1	348	<1	261	0		3	258
	Jun	49	163	<1	124	0		0		0		10	162
	Jul	4	124	<1	187	0		<1	208	0		1	136
	Aug	5	248	2	226	0		0		0		1	240
	Sep	2	137	11	149	2	229	2	265	0		4	173
	Oct	13	212	<1	137	0		2	226	0		3	212
	Nov	1	100	8	112	2	146	7	118	0		4	118
	Dec	0		1	95	64	104	<1	173	<1	154	14	105
King mackerel	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Pinfish	Jan	0		0		2	98	14	101	13	102	6	101
	Feb	0		0		<1	90	7	106	0		2	105
	Mar	0		0		8	113	8	105	<1	124	3	109
	Apr	0		0		1	114	1	80	1	115	<1	106
	May	<1	109	0		<1	111	8	107	0		2	108
	Jun	<1	77	0		<1	130	20	114	2	111	4	114
	Jul	0		2	106	69	99	5	111	2	100	17	100
	Aug	0		2	119	10	124	1	94	6	113	4	118
	Sep	0		<1	120	4	122	1	116	2	105	2	117
	Oct	0		0		0		2	109	2	113	1	111
	Nov	0		0		2	128	19	115	0		4	117
	Dec	0		0		2	119	9	115	3	94	3	111
Red drum	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Red snapper	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		<1	65	0		<1	65
	May	0		0		0		1	92	0		<1	92
	Jun	0		0		0		1	122	4	116	1	118
	Jul	0		0		0		6	130	0		1	130
	Aug	0		0		0		<1		<1	136	<1	136
	Sep	0		0		0		<1	59	1	102	<1	87
	Oct	0		0		0		1	62	2	92	<1	84
	Nov	0		0		0		<1	76	1	59	<1	65
	Dec	0		0		0		2	94	0		<1	94

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand seatrout	Jan	6	157	7	130	15	164	1	182	0		6	155
	Feb	6	152	1	206	3	115	2	162	0		8	124
	Mar	9	99	2	130	1	82	0		0		2	102
	Apr	1	104	0		28	119	2	194	0		6	122
	May	2	132	1	128	32	127	1	174	<1	145	8	130
	Jun	7	143	<1	186	3	147	0		0		2	146
	Jul	2	172	8	151	5	128	<1	230	0		3	148
	Aug	1	167	4	160	6	141	0		0		2	151
	Sep	1	192	4	166	7	141	2	218	0		3	163
	Oct	4	190	1	110	2	132	0		0		1	165
	Nov	0		35	86	2	170	1	133	1	179	8	95
	Dec	3	209	<1	150	1	148	0		<1	45	1	175
Sheepshead	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Southern flounder	Jan	0		0		<1	207	0		0		<1	207
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		<1	225	0		<1	225
	Apr	0		0		0		0		0		0	
	May	0		0		<1	325	0		0		<1	325
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	<1	204	0		0		0		0		<1	204
	Dec	0		0		<1	109	0		0		<1	109

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Spanish mackerel	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		<1	214	<1	110	0		<1	163
	Aug	1	166	1	170	0		0		0		<1	168
	Sep	0		0		<1	159	0		0		<1	159
	Oct	0		<1	194	4	183	0		1	200	1	187
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Spot	Jan	4	146	2	138	81	138	15	139	<1	124	21	138
	Feb	6	139	1	138	7	140	32	139	1	141	9	139
	Mar	0		<1	150	1	160	4	130	0		1	139
	Apr	0		0		3	166	1	145	0		1	161
	May	<1	91	0		25	109	11	150	<1	113	8	121
	Jun	28	102	15	125	29	118	174	115	37	109	56	114
	Jul	1	125	56	111	107	123	20	115	0		38	119
	Aug	2	109	8	121	21	141	6	126	0		8	133
	Sep	1	158	<1	135	3	145	2	160	1	116	1	148
	Oct	0		0		0		1	164	<1	101	<1	144
	Nov	1	138	0		1	141	6	149	0		2	146
	Dec	0		0		0		1	154	0		<1	154
Spotted seatrout	Jan	0		0		<1	110	0		0		<1	110
	Feb	0		<1	65	0		0		0		<1	65
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Striped mullet	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Other finfishes	Jan	19	96	84	78	254	97	77	98	14	95	92	93
	Feb	36	105	20	82	184	96	138	100	47	98	86	97
	Mar	28	96	52	79	91	96	389	104	38	99	119	100
	Apr	64	97	464	89	125	98	350	107	46	100	213	97
	May	45	105	147	96	374	96	270	97	34	105	178	97
	Jun	119	115	279	102	202	117	257	108	80	90	190	108
	Jul	64	100	267	114	504	118	538	93	48	100	289	107
	Aug	131	93	292	101	189	120	134	103	75	98	167	104
	Sep	30	113	194	124	517	111	288	105	38	103	219	112
	Oct	27	108	76	70	136	111	161	101	36	105	88	99
	Nov	29	93	69	86	77	92	127	95	18	105	65	93
	Dec	33	97	93	70	110	81	50	88	30	105	64	82
Total finfishes	Jan	40	112	94	84	412	107	110	106	28	101	141	104
	Feb	62	111	25	88	232	101	191	114	48	99	113	106
	Mar	45	98	60	87	150	113	417	106	39	99	142	105
	Apr	125	98	474	92	162	103	357	107	46	100	236	99
	May	93	130	189	98	447	101	295	100	35	105	216	103
	Jun	629	123	516	107	716	119	668	114	142	103	539	115
	Jul	365	122	981	109	1137	120	593	97	50	100	641	112
	Aug	193	113	420	115	289	129	168	109	85	103	235	116
	Sep	159	135	228	128	594	117	302	112	42	104	271	120
	Oct	52	148	79	73	149	113	169	103	43	109	99	106
	Nov	33	98	113	88	86	98	165	102	20	108	84	98
	Dec	38	111	95	70	179	89	62	94	34	104	84	88

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
SHELLFISHES													
Blue crab	Jan	0		0		0		0		0		0	
	Feb	2	59	0		0		<1	181	0		<1	77
	Mar	1	121	0		0		<1	150	0		<1	128
	Apr	6	80	1	171	2	99	2	168	0		2	108
	May	4	66	0		1	174	1	152	0		1	101
	Jun	7	100	0		3	132	7	110	<1	156	4	111
	Jul	0		2	85	2	102	1	138	0		1	101
	Aug	<1	61	<1	165	1	93	1	150	<1	165	1	117
	Sep	1	94	0		<1	79	<1	152	0		<1	101
	Oct	1	28	0		<1	151	0		0		<1	72
	Nov	0		0		1	48	0		0		<1	48
	Dec	1	158	0		0		<1	50	0		<1	121
Brown shrimp	Jan	0		0		1	90	1	106	0		<1	98
	Feb	1	92	0		<1	88	<1	83	<1	62	<1	85
	Mar	2	92	0		<1	116	1	112	0		1	99
	Apr	6	109	0		6	108	10	117	0		4	112
	May	0		0		65	97	3	103	0		14	97
	Jun	97	99	15	109	181	105	241	106	4	114	108	105
	Jul	60	106	24	120	28	110	34	110	1	135	29	111
	Aug	2	106	0		2	125	11	104	0		3	108
	Sep	1	96	4	103	5	102	10	111	0		4	106
	Oct	4	95	0		3	80	5	94	0		2	91
	Nov	2	82	15	93	1	98	20	97	1	112	8	95
	Dec	0		0		1	90	1	102	0		<1	97
Pink shrimp	Jan	0		0		0		1	106	1	119	<1	113
	Feb	0		0		<1	87	3	115	1	122	1	114
	Mar	<1	87	0		0		1	96	0		<1	95
	Apr	<1	87	0		6	108	12	111	1	119	4	110
	May	0		0		3	115	10	99	0		3	103
	Jun	0		0		4	119	36	102	<1	162	8	105
	Jul	0		0		0		1	121	<1	114	<1	120
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		1	105	1	144	<1	124
	Oct	0		0		1	59	<1	113	0		<1	72
	Nov	0		0		0		18	98	0		3	98
	Dec	0		0		0		<1	90	6	124	1	121

Table A.21. (Cont'd.)

Species	Month	Sabine		Galveston		Port O'Connor		Aransas		Port Isabel		Coastwide	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
White shrimp	Jan	4	95	56	87	38	105	25	101	0		25	96
	Feb	17	107	1	118	42	110	25	103	<1	141	17	108
	Mar	21	105	7	113	2	119	6	108	<1	165	7	109
	Apr	9	124	0		11	121	11	141	<1	142	6	129
	May	<1	140	<1	178	3	157	1	148	0		1	156
	Jun	12	130	2	153	2	160	1	156	0		3	139
	Jul	7	154	4	144	<1	165	1	170	0		2	151
	Aug	10	96	0		1	170	0		0		2	101
	Sep	25	110	11	121	7	117	2	138	0		9	115
	Oct	5	106	1	116	7	142	1	140	<1	115	3	128
	Nov	21	94	44	112	29	111	26	126	0		24	112
	Dec	34	86	82	95	80	102	7	114	2	127	43	97

Table A.22. Monthly mean catch rates (No./h) and mean total lengths (mm)[a] by size class (mm)[b] of Eastern oyster caught with 46.0-cm wide dredges on reef stations in Texas bay systems during January-December 1988.

Size		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Lower Laguna Madre		Coastwide	
Class	Month	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
Spat	Jan	380		384		1384		129		28		4781		12		0		854	
	Feb	300		1150		272		1298		5		2246		269		200		949	
	Mar	212		1103		1198		446		0		3125		14		518		916	
	Apr	162		1058		812		56		78		1695		113		58		624	
	May	112		663		624		279		16		855		10		150		412	
	Jun	612		327		847		0		467		1985		5		12		497	
	Jul	30		1375		187		981		136		921		19		0		745	
	Aug	102		2896		1188		1007		204		1567		0		0		1357	
	Sep	282		1756		448		2907		387		158		88		0		1190	
	Oct	372		1074		2093		2615		490		1878		152		0		1257	
	Nov	0		2995		786		175		2158		1180		5		0		1367	
	Dec	132		2503		1032		1388		1299		832		41		0		1333	
Small	Jan	1112	55	1371	54	1366	50	187	45	14	34	3716	50	295	54	0		1116	52
	Feb	1074	54	928	52	1474	49	1027	55	14	45	3275	51	254	53	100	34	1084	52
	Mar	634	54	1519	53	741	47	363	53	5	43	3122	49	215	62	150	44	1044	52
	Apr	870	59	1178	52	984	51	62	44	96	46	2153	54	742	58	0		851	53
	May	659	55	1626	51	753	53	1004	54	53	54	2725	53	310	57	0		1156	53
	Jun	789	61	1761	53	1006	50	557	57	144	52	2254	54	1485	62	0		1208	55
	Jul	717	53	1325	52	488	52	505	56	115	38	1821	55	176	63	12	47	842	53
	Aug	1719	56	1217	54	713	55	565	57	77	45	2219	56	296	61	0		973	55
	Sep	14433	56	1815	52	558	44	666	46	145	55	725	45	207	56	0		951	51
	Oct	1487	54	2356	51	740	42	1003	45	716	35	1557	49	295	60	75	48	1370	49
	Nov	964	58	1470	57	293	45	184	46	876	41	1320	52	203	59	0		858	54
	Dec	475	56	1430	53	828	44	828	53	561	45	1327	53	401	58	0		940	53
Market	Jan	663	95	457	91	168	85	39	92	0		449	85	66	84	0		273	90
	Feb	601	98	244	91	137	86	410	95	24	96	1024	92	73	87	0		347	93
	Mar	338	101	371	89	37	84	214	103	0		320	84	35	89	138	93	232	92
	Apr	468	100	404	90	199	92	77	100	0		316	86	157	88	12	92	242	91
	May	491	90	418	89	122	84	172	91	14	85	600	85	65	88	0		290	88
	Jun	849	97	360	86	172	84	268	91	19	82	523	88	87	82	12	98	315	90
	Jul	233	95	287	87	27	83	208	89	0		262	85	171	86	12	131	197	88
	Aug	606	89	366	86	80	81	194	86	24	100	529	84	103	89	0		281	86
	Sep	417	92	426	88	38	83	151	89	33	83	34	84	153	87	12	78	218	89
	Oct	438	90	584	87	24	94	415	87	19	86	250	83	258	89	0		352	87
	Nov	699	93	590	89	53	82	28	96	96	92	229	85	76	92	0		292	90
	Dec	425	90	262	89	76	89	244	87	45	85	280	87	498	92	0		255	89

[a]All oysters except spat were measured.
[b]Spat (5-25 mm), small (26-75 mm), market (>76 mm).

Table A.23. Monthly mean catch rates (No./h) and mean total lengths (mm)[a] by size class (mm)[b] of Eastern oyster caught with 46.0-cm wide dredges on non-reef stations in Texas bay systems during January-December 1988.

Size Class	Month	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
Spat	Jan	0		0		981		76		0		6		44		0		0		63	
	Feb	10		0		0		964		15		731		12		0		0		263	
	Mar	0		0		0		108		356		188		0		0		19		74	
	Apr	293		0		19		12		0		0		0		0		0		31	
	May	0		6		0		0		0		12		6		0		0		4	
	Jun	6		0		6		0		19		0		0		0		0		2	
	Jul	0		19		442		6		0		214		6		0		0		49	
	Aug	0		0		358		69		0		0		25		0		0		31	
	Sep	0		0		89		0		19		0		12		0		0		7	
	Oct	0		0		25		0		0		142		0		0		0		16	
	Nov	0		0		0		0		0		0		0		0		0		0	
	Dec	31		0		81		0		38		0		0		0		0		31	
Small	Jan	12	61	0		349	59	44	32	0		6	35	131	53	0		0		38	51
	Feb	25	66	6	34	0		244	48	6	70	210	58	0		0		0		73	51
	Mar	292	57	255	56	188	49	112	52	12	36	274	47	0		0		0		157	53
	Apr	174	59	19	45	100	52	38	42	12	29	0		12	63	0		0		35	52
	May	44	58	0		75	56	0		0		81	44	100	62	0		0		26	54
	Jun	25	53	119	54	31	49	119	50	0		0		31	64	0		0		61	53
	Jul	44	57	106	54	318	52	6	71	0		836	59	0		0		0		138	57
	Aug	25	64	0		585	53	6	64	0		25	59	0		0		0		32	54
	Sep	138	54	0		144	50	0		0		0		6	42	0		0		20	53
	Oct	6	56	31	47	88	50	0		0		285	46	0		0		0		44	47
	Nov	0		12	52	0		0		0		437	58	0		0		0		50	58
	Dec	81	51	0		295	56	112	44	0		38	53	19	59	0		0		48	49
Market	Jan	0		0		245	95	0		0		0		6	95	0		0		11	95
	Feb	106	102	12	114	0		112	86	6	87	152	86	0		0		0		52	91
	Mar	289	94	33	80	12	90	0		0		51	81	0		0		0		42	89
	Apr	164	92	0		56	96	0		0		0		56	84	0		0		23	90
	May	38	96	0		19	90	6	120	0		0		6	80	0		0		6	98
	Jun	69	94	0		19	108	12	77	0		0		19	81	0		0		11	90
	Jul	31	94	0		19	85	0		0		314	88	0		0		0		38	88
	Aug	62	90	0		209	87	6	122	0		25	81	0		0		0		19	89
	Sep	6	93	0		106	86	0		0		6	150	0		0		0		6	94
	Oct	0		12	84	38	91	0		0		64	95	0		0		0		12	91
	Nov	0		12	114	0		0		0		51	84	0		0		0		9	95
	Dec	19	86	0		161	96	6	85	0		12	88	62	93	0		0		17	92

[a]All oysters except spat were measured.
[b]Spat (5-25 mm), small (26-75 mm), market (≥76 mm).

Table A.24. Monthly mean catch rates (No./ha) and mean total lengths (mm) of select finfishes and shellfishes caught with 60.9-m beach seines in five Texas gulf shoreline areas during January-December 1988.

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
FINFISHES													
Atlantic croaker	Jan	0		2	244	0		0		0		<1	244
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		<1	343	0		0		<1	343
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	4	258	1	257	0		0		<1	315	1	260
	Oct	11	266	4	256	<1	242	0		1	294	3	264
	Nov	0		0		1	251	0		<1	265	<1	253
	Dec	0		<1	201	0		0		0		<1	201
Black drum	Jan	0		0		<1	442	1	282	0		<1	335
	Feb	0		6	230	0		0		0		1	230
	Mar	0		1	260	<1	188	0		0		<1	227
	Apr	1	225	0		0		<1	601	0		<1	296
	May	0		0		<1	236	0		0		<1	236
	Jun	0		0		0		0		0		0	
	Jul	0		<1	274	1	373	<1	448	0		<1	369
	Aug	0		<1	195	1	301	<1	221	0		1	289
	Sep	3	259	3	221	<1	196	<1	353	0		1	245
	Oct	3	221	2	229	1	232	1	221	0		2	225
	Nov	0		2	224	1	287	0		0		1	261
	Dec	<1	220	<1	253	0		<1	270	0		<1	239
Gafftopsail catfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Gulf menhaden	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		1	197	0		0		<1	197
	Jun	43	158	9	157	0		0		0		11	158
	Jul	0		0		0		0		<1	226	<1	226
	Aug	0		<1	264	0		0		0		<1	264
	Sep	0		1	224	0		0		0		<1	224
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		<1	197	0		<1	197
	Dec	0		0		0		0		0		0	
Hardhead catfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	4	338	0		0		0		0		1	338
	Apr	5	332	0		3	329	1	302	0		2	328
	May	0		1	314	7	302	1	349	0		3	306
	Jun	44	323	4	332	2	334	0		0		11	324
	Jul	21	322	1	310	1	327	1	342	0		6	323
	Aug	18	332	4	324	1	309	1	349	0		5	331
	Sep	17	336	1	334	1	345	<1	245	0		4	336
	Oct	8	367	0		0		0		0		2	367
	Nov	0		0		<1	365	0		0		<1	365
	Dec	0		0		0		0		0		0	
King mackerel	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Pinfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		<1	247	0		<1	247
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		1	155	<1	154	0		<1	155
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Red drum	Jan	0		0		<1	744	0		1	340	<1	548
	Feb	0		<1	456	1	451	0		0		<1	451
	Mar	0		<1	583	<1	550	<1	390	0		<1	492
	Apr	0		0		0		<1	425	0		<1	425
	May	0		0		<1	438	0		0		<1	438
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	1	281	<1	270	0		<1	305	0		<1	282
	Sep	1	338	<1	327	<1	618	0		<1	702	<1	480
	Oct	2	560	<1	429	0		0		0		<1	548
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Red snapper	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Sand seatrout	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		1	269	0		0		0		<1	269
	Jul	0		0		0		0		<1	286	<1	286
	Aug	1	282	<1	315	1	321	0		0		<1	299
	Sep	0		<1	56	0		0		0		<1	56
	Oct	1	333	2	311	<1	262	0		0		1	305
	Nov	1	352	0		0		0		0		<1	352
	Dec	0		0		0		0		0		0	
Sheepshead	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		1	420	<1	420
	Apr	0		2	358	<1	316	0		0		<1	344
	May	<1	347	<1	397	<1	178	0		0		<1	312
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	1	486	<1	494	<1	350	0		0		<1	446
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		1	288	0		<1	288
	Dec	0		0		0		0		0		0	
Southern flounder	Jan	0		0		0		0		0		0	
	Feb	0		<1	381	0		<1	529	0		<1	468
	Mar	0		1	224	0		0		0		<1	224
	Apr	1	544	2	256	0		0		0		<1	386
	May	<1	350	1	265	0		0		0		<1	296
	Jun	0		0		0		<1	163			<1	163
	Jul	1	209	0		0		0		0		<1	209
	Aug	0		1	202	<1	203	<1	252	0		<1	210
	Sep	0		1	270	0		0		0		<1	270
	Oct	0		1	295	0		0		<1	434	<1	322
	Nov	0		<1	269	0		0		0		<1	269
	Dec	0		1	219	0		0		0		<1	219

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Spanish mackerel	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		1	431	<1	431
	Aug	0		0		0		0		<1	315	<1	315
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Spot	Jan	0		<1	251	<1	262	<1	252	0		<1	256
	Feb	0		<1	253	0		0		<1	266	<1	260
	Mar	0		0		0		<1	260	0		<1	260
	Apr	0		0		0		0		1	227	<1	227
	May	<1	227	0		<1	258	0		1	215	<1	227
	Jun	0		<1	205	0		<1	234	0		<1	220
	Jul	1	224	<1	215	0		0		0		<1	223
	Aug	1	229	0		<1	144	0		0		<1	213
	Sep	1	249	<1	211	0		0		0		<1	240
	Oct	16	247	6	239	<1	250	0		0		5	246
	Nov	0		1	230	<1	236	6	244	1	259	1	244
	Dec	0		0		0		0		1	260	<1	260
Spotted seatrout	Jan	<1	446	0		1	484	<1	410	0		<1	466
	Feb	0		<1	384	0		0		<1	538	<1	445
	Mar	0		0		<1	374	0		1	539	<1	425
	Apr	2	396	2	436	1	542	1	416	<1	380	1	432
	May	9	380	<1	441	2	377	0		1	441	3	383
	Jun	2	497	2	420	<1	367	0		1	465	1	457
	Jul	4	453	7	449	1	379	<1	409	0		2	439
	Aug	8	396	2	410	3	413	<1	453	<1	515	3	405
	Sep	2	409	3	416	1	393	0		<1	512	1	410
	Oct	0		1	436	1	421	0		<1	448	<1	431
	Nov	0		0		1	400	<1	460	0		<1	413
	Dec	0		0		0		0		1	640	<1	640

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Striped mullet	Jan	1	338	10	345	2	372	37	348	6	343	9	348
	Feb	0		11	386	24	375	2	232	6	361	11	370
	Mar	7	400	1	403	3	392	1	326	3	364	3	388
	Apr	4	338	3	366	1	355	3	371	9	350	3	353
	May	25	366	30	360	25	350	21	350	15	347	24	355
	Jun	8	403	2	411	2	340	0		0		3	386
	Jul	25	349	64	342	10	339	<1	370	0		18	344
	Aug	100	354	24	331	1	339	10	367	<1	352	29	352
	Sep	11	372	3	357	7	318	1	374	6	325	6	346
	Oct	1	342	7	344	<1	348	51	357	0		11	356
	Nov	4	373	90	339	3	376	11	350	11	357	18	345
	Dec	1	342	3	304	4	355	8	375	3	356	4	357
Other finfishes	Jan	0		<1	281	<1	402	0		0		<1	345
	Feb	0		0		<1	95	0		0		<1	195
	Mar	1	324	1	330	0		0		1	147	<1	298
	Apr	0		2	267	1	263	10	131	2	295	2	174
	May	1	192	0		4	278	32	191	10	430	8	236
	Jun	<1	147	8	259	190	43	125	50	5	257	89	49
	Jul	2	232	<1	241	3	216	7	192	10	271	4	226
	Aug	2	174	2	197	5	242	8	132	4	315	4	201
	Sep	2	243	6	173	5	184	2	214	5	362	4	214
	Oct	1	290	1	254	<1	274	2	231	1	382	1	274
	Nov	0		1	311	1	247	2	218	2	298	1	255
	Dec	0		2	221	<1	304	<1	470	0		<1	273
Total finfishes	Jan	1	374	13	325	3	411	38	344	7	342	11	349
	Feb	0		18	333	25	377	3	261	7	366	12	363
	Mar	12	374	3	342	4	387	2	324	5	366	5	370
	Apr	13	352	10	341	6	348	15	229	12	334	10	314
	May	37	362	34	356	39	325	54	257	27	372	39	323
	Jun	98	292	27	267	194	65	125	50	6	289	116	115
	Jul	54	337	73	354	15	318	9	238	12	283	31	332
	Aug	133	346	35	326	13	300	20	264	5	337	44	333
	Sep	40	330	20	268	14	281	3	255	12	358	19	308
	Oct	42	292	25	291	3	290	54	334	3	374	24	310
	Nov	5	370	93	332	7	327	20	308	15	337	22	329
	Dec	1	301	6	256	5	351	8	374	5	368	5	339

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
SHELLFISHES													
Blue crab	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		<1	29	0		<1	29
	Apr	2	116	0		1	144	0		0		1	127
	May	7	109	0		2	130	0		0		2	115
	Jun	1	141	0		<1	188	<1	115	0		<1	150
	Jul	1	78	1	134	<1	165	1	144	<1	160	<1	132
	Aug	0		1	149	1	140	<1	156	<1	130	<1	144
	Sep	1	156	1	139	<1	100	0		0		<1	139
	Oct	1	116	<1	162	<1	132	<1	100	1	108	1	118
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Brown shrimp	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Pink shrimp	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.24. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
White shrimp	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		1	163	0		0		0		<1	163
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		<1	135	0		0		<1	135
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. Monthly mean catch rates (No./ha) and mean total lengths (mm) of select finfishes and shellfishes caught with 18.3-m bag seines in five Texas gulf shoreline areas during January-December 1988.

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
FINFISHES													
Atlantic croaker	Jan	0		19	38	0		0		0		3	38
	Feb	0		0		2	28	0		0		1	28
	Mar	75	38	0		0		12	22	0		19	36
	Apr	0		0		5	39	23	30	0		6	33
	May	0		0		0		0		0		0	
	Jun	87	40	5	62	0		0		0		21	41
	Jul	0		0		0		0		0		0	
	Aug	0		0		3	128	0		0		1	128
	Sep	92	33	0		4	32	0		0		23	33
	Oct	8	37	0		0		0		0		2	37
	Nov	0		0		0		0		0		0	
	Dec	6633	28	0		0		0		0		1526	28
Black drum	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		3	104	3	168	0		0		1	146
	Sep	8	111	0		0		0		6	182	3	128
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Gafftopsail catfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Gulf menhaden	Jan	13	114	0		2	54	0		0		4	101
	Feb	0		0		0		0		0		0	
	Mar	8	59	0		0		0		0		2	59
	Apr	0		0		0		0		6	75	1	75
	May	0		43	49	2	50	0		0		7	49
	Jun	13	93	129	101	0		0		0		21	100
	Jul	0		0		3	46	45	43	0		9	44
	Aug	0		0		10	70	124	34	0		26	39
	Sep	0		4	65	0		0		0		1	65
	Oct	0		0		24	102	0		0		8	102
	Nov	0		0		0		0		0		0	
	Dec	0		5	54	0		0		0		1	54
Hardhead catfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		4	117	0		0		0		1	117
	May	0		0		2	71	0		0		1	71
	Jun	0		62	124	4	108	0		0		10	122
	Jul	8	119	4	122	0		0		0		2	120
	Aug	133	58	7	56	0		0		0		32	58
	Sep	0		4	84	7	107	0		0		3	103
	Oct	8	84	17	83	0		0		0		4	83
	Nov	0		4	96	0		0		0		1	96
	Dec	0		0		0		0		0		0	
King mackerel	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		17	67	2	67
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Pinfish	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		694	107	76	107
	Jun	0		0		2	151	0		0		1	151
	Jul	0		4	100	3	94	0		0		1	96
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		28	51	3	51
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Red drum	Jan	0		0		0		0		0		0	
	Feb	0		3	66	0		0		0		<1	66
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Red snapper	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Sand seatrout	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		2	50	0		0		1	50
	Jun	0		14	93	2	72	0		0		3	88
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		71	41	0		0		0		10	41
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Sheepshead	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		2	40	0		0		1	40
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Southern flounder	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	67	42	0		5	38	30	37	0		23	41
	Apr	89	72	48	64	7	84	20	64	0		33	70
	May	0		24	81	2	114	0		0		4	87
	Jun	0		10	142	2	138	0		0		2	141
	Jul	0		4	166	0		0		0		1	166
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Spanish mackerel	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		5	59	0		0		0		1	59
	Jul	0		0		3	79	0		0		1	79
	Aug	0		0		0		0		6	175	1	175
	Sep	0		0		0		0		6	46	1	46
	Oct	0		0		12	48	0		0		4	48
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Spot	Jan	0		0		5	149	0		0		2	149
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		6	69	1	69
	May	0		0		0		0		361	92	40	92
	Jun	0		10	80	0		0		0		1	80
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Spotted seatrout	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Striped mullet	Jan	0		19	144	12	126	47	40	17	155	17	89
	Feb	0		3	29	4	114	256	28	0		48	31
	Mar	8	36	0		0		3	26	0		2	34
	Apr	0		0		0		0		0		0	
	May	7	170	5	28	133		0		0		48	127
	Jun	80	34	0		8	32	4	31	0		22	33
	Jul	233	118	12	89	3	124	0		0		56	117
	Aug	17	197	183	116	3	103	0		0		30	126
	Sep	0		8	155	0		0		0		1	155
	Oct	0		0		0		7	30	0		1	30
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		3	137	0		1	137
Other finfishes	Jan	27	70	38	118	131	270	60	82	0		67	209
	Feb	83	64	157	81	80	140	48	76	6	361	78	99
	Mar	83	111	121	77	144	101	33	69	33	117	95	97
	Apr	1589	81	63	88	800	89	333	71	2283	68	957	79
	May	2807	63	490	49	1307	80	819	29	8172	115	2205	85
	Jun	1667	64	45081	91	2398	60	4975	46	1122	88	8529	82
	Jul	500	47	604	71	2269	62	2942	47	750	67	1583	57
	Aug	350	106	1220	50	1515	50	2209	57	6433	65	1872	60
	Sep	108	58	912	99	8020	52	744	51	2156	67	3251	55
	Oct	158	79	196	73	350	65	127	58	2306	76	459	72
	Nov	125	63	146	53	104	55	33	49	89	88	100	60
	Dec	60	85	57	62	100	61	160	46	22	89	87	61
Total finfishes	Jan	40	84	76	105	150	262	107	63	17	155	92	182
	Feb	83	64	163	79	87	135	304	36	6	361	127	73
	Mar	242	65	121	77	149	99	79	48	33	117	141	78
	Apr	1678	80	115	79	812	89	377	68	2295	68	998	79
	May	2813	65	562	50	1449	87	819	29	9228	105	2381	84
	Jun	1847	60	45314	99	2417	60	4979	46	1122	88	8610	88
	Jul	742	70	629	73	2279	62	2988	47	750	67	1654	59
	Aug	500	96	1413	58	1533	51	2333	56	6439	66	1962	61
	Sep	208	49	1000	94	8033	51	744	51	2211	67	3296	54
	Oct	175	77	212	74	386	66	133	57	2306	76	479	72
	Nov	125	63	150	54	104	55	33	49	89	88	101	60
	Dec	6693	28	62	62	100	61	163	48	22	89	1614	29

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
SHELLFISHES													
Blue crab	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	58	56	0		0		3	27	0		14	55
	Apr	189	89	0		0		0		0		43	89
	May	53	101	0		18	89	0		0		18	97
	Jun	7	121	5	32	2	118	0		0		3	100
	Jul	0		4	18	5	34	0		0		2	30
	Aug	0		0		0		0		0		0	
	Sep	17	76	0		2	103	0		0		5	80
	Oct	8	132	0		0		0		0		2	132
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Brown shrimp	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	13	38	0		17	76	0		0		9	62
	Jul	25	54	0		0		0		0		6	54
	Aug	17	70	0		0		0		0		4	70
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		6	46	1	46
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	
Pink shrimp	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	0		0		0		0		0		0	
	Aug	0		0		0		0		0		0	
	Sep	0		0		0		0		0		0	
	Oct	0		0		0		0		0		0	
	Nov	0		0		0		0		0		0	
	Dec	0		0		0		0		0		0	

Table A.25. (Cont'd.)

Species	Month	Gulf-17		Gulf-18		Gulf-19		Gulf-20		Gulf-21		Coastwide	
		No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
White shrimp	Jan	0		0		0		0		0		0	
	Feb	0		0		0		0		0		0	
	Mar	0		0		0		0		0		0	
	Apr	0		0		0		0		0		0	
	May	0		0		0		0		0		0	
	Jun	0		0		0		0		0		0	
	Jul	50	55	0		3	50	3	45	0		13	54
	Aug	100	71	3	76	0		0		0		23	71
	Sep	75	55	25	78	0		0		0		21	59
	Oct	67	75	8	72	10	64	0		0		20	73
	Nov	0		4	78	0		0		6	69	1	73
	Dec	20	71	0		0		0		0		5	71

Appendix B. Hydrological summary for gill net, bay bag seine, bay and gulf trawl, reef and non-reef oyster dredge, and beach seine and beach bag seine samples.

Table B.1. Mean surface salinity (o/oo) at sampled gill net sites by bay system during spring and fall, 1975-1988. ND = no data.

	Bay system																			
	Sabine		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Year	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	ND	ND	14.9	ND	ND	ND	20.8	ND	18.0	ND	16.7	ND	16.0	ND	34.3	ND	25.0	ND	20.3
1976	ND	ND	12.2	15.9	ND	19.8	14.0	19.0	29.4	14.6	15.0	9.9	18.0	16.1	35.0	22.7	29.0	23.8	20.6	17.4
1977	ND	ND	10.9	25.7	14.6	18.5	18.0	15.4	12.5	19.2	6.8	19.9	16.0	33.8	24.8	39.4	29.3	31.0	16.2	25.4
1978	ND	ND	20.6	22.0	22.2	18.9	22.0	14.4	24.0	13.6	22.0	13.4	30.0	25.8	41.2	38.6	32.2	17.1	26.3	20.2
1979	ND	ND	5.7	12.6	12.8	11.8	9.5	9.9	7.2	13.5	7.4	6.9	17.6	23.1	33.5	28.4	29.5	26.1	14.4	16.1
1980	ND	ND	13.4	23.7	17.3	24.9	15.1	22.9	20.7	18.6	18.7	21.6	29.5	27.2	37.8	24.7	31.8	33.0	22.2	24.3
1981	ND	ND	27.1	9.5	29.7	15.9	20.4	13.8	23.2	9.6	19.4	8.0	30.9	21.3	29.2	23.9	29.7	31.3	25.6	15.9
1982	ND	ND	12.6	20.3	14.5	25.1	12.4	23.0	17.0	27.2	11.9	25.6	22.7	33.1	24.4	39.5	25.9	36.1	17.1	27.9
1983	ND	ND	14.4	11.4	19.1	12.6	19.6	11.8	19.3	17.4	22.4	7.5	30.0	24.5	40.0	34.0	33.5	31.0	24.0	18.1
1984	ND	ND	21.7	18.7	23.7	15.6	24.0	18.7	27.4	29.4	22.5	26.4	31.8	33.9	39.0	44.4	35.2	22.9	27.6	25.9
1985	ND	ND	18.5	22.8	15.1	23.4	11.0	23.6	13.1	23.6	13.1	23.6	22.5	29.9	34.8	39.5	32.5	31.8	20.0	26.9
1986	11.7	13.0	15.4	20.8	25.2	13.8	23.5	22.0	20.9	21.8	21.5	24.7	30.9	37.0	41.8	46.8	33.7	38.0	24.8	27.6
1987	8.2	14.3	19.7	21.5	16.2	14.4	16.1	20.6	12.3	16.5	16.7	13.4	32.8	33.2	28.8	37.6	28.2	34.2	20.6	23.6
1988	7.8	12.1	18.3	21.8	24.3	27.1	25.4	32.4	23.8	23.0	21.3	24.8	33.6	36.8	42.3	47.9	32.8	31.0	26.0	29.1

Table B.2. Mean surface water temperature (C) at sampled gill net sites by bay system during spring and fall, 1975-1988. ND = no data.

	Bay system																			
	Sabine		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Year	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	ND	ND	20.2	ND	ND	ND	21.1	ND	22.4	ND	22.7	ND	23.3	ND	22.7	ND	24.0	ND	22.1
1976	ND	ND	28.5	17.2	ND	14.5	28.5	24.9	28.0	24.2	29.0	24.1	26.0	24.2	29.0	18.6	26.5	19.8	25.0	21.2
1977	ND	ND	24.6	21.4	25.4	22.7	24.9	22.8	25.2	23.0	24.8	22.6	25.4	23.1	25.7	21.9	27.0	24.9	25.3	22.7
1978	ND	ND	26.7	21.1	26.0	23.5	26.2	23.9	25.2	24.0	26.6	23.9	27.7	23.5	27.0	23.1	27.1	24.2	26.6	23.2
1979	ND	ND	26.9	22.9	27.4	23.6	27.3	24.0	27.5	24.7	27.2	24.5	27.1	24.7	28.2	25.5	27.6	25.9	27.4	24.4
1980	ND	ND	25.9	24.4	26.1	22.9	26.1	24.6	27.0	23.3	26.7	22.8	27.0	24.1	29.0	27.2	28.8	25.6	27.0	24.5
1981	ND	ND	26.4	25.6	26.8	24.4	25.1	24.9	26.6	25.2	27.2	25.0	26.8	25.4	26.6	25.8	26.6	26.3	26.4	25.4
1982	ND	ND	26.2	24.5	27.1	24.7	27.3	24.5	25.8	25.2	26.2	23.8	26.4	24.0	27.6	24.7	27.6	25.4	26.7	24.6
1983	ND	ND	25.6	25.3	25.8	26.2	24.9	25.6	25.6	25.5	26.1	25.3	26.5	25.6	27.4	27.0	26.5	26.8	26.0	25.8
1984	ND	ND	26.6	25.3	25.7	26.4	25.0	25.2	26.0	25.0	25.8	25.2	26.2	25.1	27.3	25.9	27.4	26.9	26.3	25.5
1985	ND	ND	27.8	25.4	28.6	25.4	27.3	25.0	26.3	27.4	27.5	25.7	26.4	25.6	27.6	26.2	28.3	27.1	27.4	26.0
1986	27.0	26.2	26.6	25.3	27.2	23.6	26.5	25.2	27.5	25.2	28.0	24.2	26.5	24.5	26.4	26.4	28.0	26.0	27.0	25.2
1987	25.7	23.7	26.4	23.8	26.9	24.5	26.4	25.2	26.7	26.5	26.4	24.9	25.9	24.8	27.6	26.2	25.2	25.1	26.4	25.0
1988	25.4	26.2	25.3	25.8	25.9	26.5	25.1	26.9	24.9	27.3	26.7	25.9	24.4	25.8	26.6	27.4	27.4	27.5	25.8	26.6

Table B.3. Mean surface turbidity at sampled gill net sites by bay system during spring and fall, 1975-1988. ND = no data.

	Bay system																			
	Sabine		Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Year[a]	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	ND	ND	57	ND	ND	ND	29	ND	40	ND	24	ND	21	ND	41	ND	30	ND	37
1976	ND	ND	91	66	ND	91	80	32	5	22	24	65	118	70	24	54	24	37	54	52
1977	ND	ND	81	67	117	32	39	80	52	19	44	55	172	46	39	46	40	31	65	51
1978	ND	ND	79	43	20	14	67	67	61	18	65	45	47	40	61	60	40	41	61	44
1979	ND	ND	146	72	39	29	74	64	76	21	67	44	65	52	57	33	33	89	80	55
1980	ND	ND	102	72	75	50	85	33	44	17	47	35	59	33	45	58	62	69	68	48
1981	ND	ND	53	67	58	65	62	65	47	24	43	60	57	39	243	46	126	66	85	56
1982	ND	ND	66	59	86	56	76	46	35	28	89	32	52	38	54	32	131	78	74	47
1983	ND	ND	57	60	50	25	55	43	43	31	43	41	39	42	49	37	49	63	49	46
1984	ND	ND	45	35	29	25	36	48	46	40	40	41	53	39	71	57	115	92	56	49
1985	ND	ND	25	29	62	35	53	49	52	49	47	44	56	41	72	41	100	61	55	43
1986	45	28	31	34	55	37	57	31	49	31	37	36	62	26	61	85	50	57	48	41
1987[b]	30	18	18	17	43	19	28	19	26	15	11	6	22	6	14	11	23	12	21	13
1988[b]	21	11	16	11	31	15	16	19	22	21	13	16	24	10	18	14	26	29	19	17

[a] Turbidity values recorded in JTU 1975-1986.
[b] Turbidity values recorded in NTU.

Table B.4. Mean surface salinity (o/oo) at sampled bag seine sites by bay system during 1988.

	Bay system								
Month	Sabine	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	2.0	12.0	22.2	18.7	19.8	15.7	28.6	41.7	24.9	20.8
Feb	0.7	18.0	26.0	22.9	19.8	17.8	30.8	35.9	27.6	22.8
Mar	3.0	18.9	23.7	17.6	23.0	22.5	32.9	40.6	27.4	23.9
Apr	2.6	18.1	27.3	24.9	26.4	23.2	24.1	40.3	30.7	25.9
May	9.1	15.6	26.9	24.2	25.8	21.9	33.0	39.9	31.1	25.2
Jun	9.0	22.9	25.6	23.2	29.8	23.1	35.1	46.0	30.8	28.0
Jul	11.2	21.6	22.6	29.5	29.2	26.6	38.1	48.5	38.0	30.5
Aug	10.2	22.8	29.1	26.8	19.9	25.3	38.5	50.1	39.8	29.8
Sep	10.6	21.8	29.8	33.4	23.1	26.6	37.9	48.1	34.4	30.1
Oct	11.6	21.6	30.1	32.9	21.2	27.0	37.6	48.4	29.0	29.2
Nov	13.5	23.8	23.1	32.7	18.2	27.7	36.9	54.9	31.8	30.2
Dec	10.5	26.3	31.8	33.2	22.4	27.9	37.6	46.7	38.0	31.4

Table B.5. Mean surface temperature (C) at sampled bag seine sites by bay system during 1988.

Month	Bay system									
	Sabine	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	9.3	11.3	11.1	9.3	11.8	9.0	12.1	14.4	11.1	11.1
Feb	14.2	17.0	17.3	15.7	15.3	17.8	17.2	16.3	19.4	16.9
Mar	18.3	17.9	19.0	17.9	17.5	21.1	20.2	20.3	19.8	19.0
Apr	23.9	22.5	23.3	24.4	22.6	25.2	20.5	24.1	24.6	23.5
May	23.6	23.5	26.4	26.2	27.6	28.7	24.6	27.4	27.8	26.1
Jun	27.9	30.0	28.9	28.9	28.9	28.9	26.5	30.5	30.0	29.1
Jul	30.2	30.6	30.2	29.2	31.9	30.8	30.0	30.3	30.8	30.5
Aug	30.5	31.9	31.2	30.5	31.0	31.1	28.0	30.8	30.0	30.7
Sep	28.3	29.1	29.2	29.6	28.4	29.9	28.6	29.0	30.0	29.2
Oct	23.2	25.4	27.4	25.0	25.8	24.8	26.6	25.3	27.0	25.6
Nov	18.4	19.9	20.5	20.5	17.4	19.5	22.2	19.6	22.8	20.1
Dec	14.9	18.4	15.1	17.7	16.2	17.3	13.4	21.2	18.7	17.6

Table B.6. Mean surface turbidity (NTU) at sampled bag seine sites by bay system during 1988.

Month	Bay system									
	Sabine	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	27	26	22	12	19	20	19	25	18	21
Feb	39	22	14	33	39	15	7	20	23	24
Mar	46	44	16	31	44	12	28	55	53	38
Apr	30	43	26	30	42	14	26	11	31	30
May	37	15	45	40	22	14	30	15	17	22
Jun	23	14	24	52	10	76	19	24	13	30
Jul	29	36	31	23	14	16	9	22	19	22
Aug	15	40	30	22	38	16	23	14	13	25
Sep	15	31	21	40	34	55	10	13	31	31
Oct	19	16	9	35	18	18	10	9	26	19
Nov	13	30	46	16	27	26	15	39	32	27
Dec	26	14	49	8	22	11	41	10	20	18

Table B.7. Monthly mean bottom salinity (o/oo) at sampled oyster dredge reef sites in Texas bay systems during January-December 1988. No samples were collected in upper Laguna Madre.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Lower Laguna Madre	Coastwide
Jan	0.9	11.8	22.0	20.8	20.8	13.1	31.3	27.0	16.8
Feb	7.3	18.7	25.7	24.8	23.4	18.0	30.9	28.0	21.3
Mar	5.1	18.7	25.2	25.0	21.0	20.2	31.5	33.5	21.4
Apr	10.9	17.0	27.4	26.1	23.7	24.9	32.0	37.5	22.8
May	16.1	13.5	28.7	23.2	22.9	23.0	29.9	37.0	21.1
Jun	19.2	20.9	31.0	25.9	24.3	23.2	32.9	38.0	24.8
Jul	17.7	22.1	28.5	29.6	22.6	26.8	40.5	45.0	26.9
Aug	15.3	22.7	33.2	29.4	23.0	29.7	38.2	40.5	27.1
Sep	14.7	20.2	31.2	33.3	22.4	30.0	35.7	35.5	26.4
Oct	12.8	21.3	31.5	32.7	24.6	29.4	36.3	40.0	26.9
Nov	18.3	23.7	29.8	34.3	21.6	28.7	36.8	40.5	27.9
Dec	16.0	23.2	32.0	32.8	24.6	29.8	36.5	39.5	27.8

Table B.8. Monthly mean bottom temperature (C) at sampled oyster dredge reef sites in Texas bay systems during January-December 1988. No samples were collected in upper Laguna Madre.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Lower Laguna Madre	Coastwide
Jan	9.9	10.1	9.0	8.4	10.2	12.1	9.9	15.2	10.2
Feb	13.2	12.7	14.7	13.5	14.7	14.0	15.0	11.9	13.6
Mar	15.9	16.3	17.7	17.7	18.5	16.1	18.4	20.0	17.2
Apr	20.7	20.6	22.4	21.7	20.4	21.2	22.2	25.5	21.3
May	22.9	24.9	24.7	25.5	25.0	23.6	23.5	26.6	24.6
Jun	27.2	28.0	28.3	27.9	27.6	27.3	27.5	28.6	27.8
Jul	29.9	29.4	28.9	29.1	29.1	29.8	30.4	30.0	29.5
Aug	30.0	30.3	30.6	30.1	30.7	29.4	29.7	31.0	30.1
Sep	28.5	27.7	27.0	28.8	28.2	28.2	27.8	30.0	28.1
Oct	23.6	23.8	24.8	23.8	24.8	24.8	24.6	26.9	24.3
Nov	20.3	20.3	21.6	19.5	18.6	18.4	21.6	22.8	20.0
Dec	13.3	13.6	15.4	16.1	14.8	15.2	16.3	18.8	15.0

Table B.9. Monthly mean bottom turbidity (NTU) at sampled oyster dredge reef sites in Texas bay systems during January-December 1988. No samples were collected in upper Laguna Madre.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Lower Laguna Madre	Coastwide
Jan	21	14	8	7	12	16	13	12	13
Feb	20	27	8	20	9	19	9	22	19
Mar	13	11	26	28	24	19	20	26	19
Apr	24	19	16	15	17	17	11	18	17
May	15	16	22	15	19	11	15	6	15
Jun	8	8	21	16	11	8	16	21	12
Jul	13	23	29	49	17	31	17	11	27
Aug	10	16	27	15	11	10	20	4	14
Sep	9	14	13	39	18	15	9	10	18
Oct	9	11	20	22	15	13	21	10	15
Nov	13	16	19	16	18	36	18	42	20
Dec	10	9	13	7	21	12	10	6	11

Table B.10. Monthly mean bottom salinity (o/oo) at sampled oyster dredge non-reef sites in Texas bay systems during January-December 1988.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	1.9	15.2	22.2	23.4	17.7	18.1	30.3	37.4	31.6	19.9
Feb	2.0	17.8	26.3	24.7	21.2	22.1	31.2	37.5	30.6	21.8
Mar	3.2	19.2	25.1	23.2	20.7	18.8	32.2	38.2	31.3	21.8
Apr	2.5	13.2	27.8	26.4	25.0	24.2	31.7	41.1	32.6	21.9
May	6.9	16.2	28.3	26.4	24.6	23.1	33.1	43.4	34.9	23.4
Jun	10.2	18.5	29.8	26.4	23.7	23.0	33.0	48.8	37.3	24.8
Jul	7.5	21.5	25.8	28.1	24.5	28.3	36.8	50.0	38.9	26.6
Aug	11.8	21.4	31.2	30.5	22.8	28.4	38.9	52.2	37.9	27.9
Sep	9.9	19.3	31.3	30.8	21.5	27.7	35.4	48.1	37.6	26.4
Oct	11.0	20.1	31.6	31.8	23.9	29.0	37.4	50.7	36.9	27.6
Nov	11.3	23.6	30.5	32.1	22.5	29.4	36.8	49.3	33.4	28.2
Dec	15.2	23.8	32.2	32.0	22.0	28.6	36.6	49.9	37.8	28.7

Table B.11. Monthly mean bottom temperature (C) at sampled oyster dredge non-reef sites in Texas bay systems during January-December 1988.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	9.4	9.7	9.1	8.9	10.0	11.1	10.5	11.9	11.3	10.0
Feb	13.8	13.0	16.2	13.4	15.7	14.6	13.1	14.2	14.9	13.9
Mar	16.3	16.4	16.6	16.6	18.0	16.5	18.3	18.3	18.0	17.0
Apr	21.9	19.8	22.7	21.2	20.4	21.6	21.3	21.6	23.1	21.1
May	24.8	24.7	25.1	25.0	24.4	24.5	23.1	25.5	26.1	24.7
Jun	27.5	27.9	28.0	28.1	27.8	27.9	27.4	28.5	29.0	28.0
Jul	30.4	29.3	29.2	29.2	29.0	30.0	29.4	29.0	29.2	29.4
Aug	30.2	30.3	30.6	30.5	30.9	30.0	30.2	29.9	29.5	30.3
Sep	27.8	27.3	27.6	27.9	28.3	28.4	27.7	27.9	27.6	27.8
Oct	22.9	23.5	24.8	24.0	24.8	24.1	24.9	25.4	26.1	24.1
Nov	26.6	19.7	18.9	19.1	18.8	19.0	23.2	20.9	24.5	20.1
Dec	14.0	13.6	14.9	15.4	14.0	15.8	16.2	18.6	18.3	15.1

Table B.12. Monthly mean bottom turbidity (NTU) at sampled oyster dredge non-reef sites in Texas bay systems during January-December 1988.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	16	13	10	12	11	9	15	8	6	12
Feb	28	16	10	12	11	9	6	11	12	14
Mar	27	14	22	23	21	14	24	18	20	19
Apr	20	17	23	31	12	14	13	10	13	18
May	9	10	29	25	14	19	15	18	10	16
Jun	6	10	16	18	17	8	13	20	8	13
Jul	9	26	34	44	31	15	13	16	13	25
Aug	12	13	22	18	10	6	12	12	12	13
Sep	10	10	18	22	18	12	8	12	23	14
Oct	18	11	13	36	29	16	17	12	8	19
Nov	15	12	19	13	17	24	23	18	21	17
Dec	9	8	14	13	33	8	14	9	12	12

Table B.13. Monthly mean bottom salinity (o/oo) at sampled bay trawl sites in Texas bay systems during January - December 1988.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	0.3	7.4	22.0	24.3	14.8	17.0	32.9	38.5	29.2	17.7
Feb	2.2	17.4	25.4	27.0	22.1	21.1	32.3	36.6	31.6	22.9
Mar	2.2	16.6	25.2	27.4	20.4	19.3	32.2	38.3	31.4	22.4
Apr	1.9	16.8	26.8	28.5	23.6	26.3	31.8	39.8	32.6	23.8
May	7.8	11.5	28.7	28.8	21.0	23.2	32.6	42.5	34.8	22.0
Jun	11.8	20.9	31.8	28.2	24.8	23.8	33.2	47.4	38.2	26.2
Jul	10.8	21.6	30.0	28.7	21.4	27.9	36.4	48.4	38.6	26.8
Aug	10.5	23.6	32.3	30.2	21.9	32.5	38.2	49.9	37.8	28.5
Sep	11.1	19.9	30.6	32.2	23.6	31.4	36.4	47.6	37.1	27.5
Oct	11.3	22.3	31.0	31.9	24.4	29.5	37.1	50.9	32.4	28.2
Nov	13.2	24.0	29.9	33.8	21.6	28.5	36.4	50.3	32.8	28.8
Dec	15.7	23.3	33.4	34.3	21.5	30.6	38.4	49.4	35.4	29.2

Table B.14. Monthly mean bottom temperature (C) at sampled bay trawl sites in Texas bay systems during January - December 1988.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	9.9	8.7	8.3	8.6	9.5	11.0	9.0	12.2	13.5	9.4
Feb	13.5	12.5	17.1	13.6	15.6	15.8	15.9	13.9	16.9	14.1
Mar	17.4	16.5	17.2	14.5	18.7	15.6	16.3	18.2	17.8	16.4
Apr	21.3	21.4	21.5	19.8	20.1	21.4	21.3	20.7	25.0	21.0
May	24.1	24.8	25.2	25.1	23.8	24.1	23.2	25.5	26.1	24.6
Jun	28.0	27.9	27.7	27.5	27.4	27.4	27.5	28.7	28.9	27.8
Jul	30.3	29.6	29.0	29.4	29.3	29.4	29.7	28.8	29.4	29.5
Aug	30.2	30.2	30.4	30.2	30.7	30.8	30.6	29.4	29.4	30.3
Sep	27.0	27.9	27.5	27.7	28.0	27.9	27.2	27.8	28.1	27.8
Oct	22.8	23.5	24.4	24.4	25.2	23.7	24.8	25.4	26.0	24.2
Nov	20.3	19.5	18.2	19.3	19.2	20.0	23.0	20.7	23.8	20.1
Dec	12.8	13.5	13.1	15.0	14.0	15.5	17.2	17.7	17.6	14.8

Table B.15. Monthly mean bottom turbidity (NTU) at sampled bay trawl sites in Texas bay systems during January - December 1988.

Month	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Jan	15	19	11	18	12	9	14	8	4	15
Feb	35	17	9	16	11	13	10	13	15	15
Mar	23	21	34	13	22	21	24	19	18	20
Apr	37	13	21	11	10	13	13	14	11	13
May	10	19	32	17	14	11	12	17	7	15
Jun	7	9	18	14	13	9	16	15	25	12
Jul	11	20	40	26	11	10	21	19	11	19
Aug	13	10	19	13	14	8	13	15	11	12
Sep	9	14	18	41	20	15	10	8	13	20
Oct	10	10	11	77	33	14	9	8	13	28
Nov	12	11	11	24	29	19	23	16	38	19
Dec	13	13	9	10	19	9	9	12	7	12

Table B.16. Monthly mean bottom salinity (o/oo) at sampled gulf trawl sites in the Texas Territorial Sea during January-December 1988.

Month	Sabine	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
Jan	26.4	34.2	33.6	31.3	33.5	31.9
Feb	23.2	29.8	31.5	33.1	34.7	30.5
Mar	23.6	25.5	30.9	32.6	33.7	29.3
Apr	23.4	27.5	32.3	30.4	33.4	29.4
May	24.8	24.8	31.1	31.4	33.5	29.1
Jun	28.2	30.2	30.7	31.3	34.3	30.9
Jul	27.5	30.0	30.2	32.2	36.0	31.2
Aug	28.9	30.6	29.7	36.4	36.5	32.4
Sep	27.1	14.9	31.1	35.7	36.4	28.9
Oct	31.2	30.7	29.8	31.4	35.8	31.7
Nov	30.9	32.0	31.0	32.3	36.3	32.4
Dec	32.1	29.4	26.1	32.1	36.2	31.0

Table B.17. Monthly mean bottom temperature (C) at sampled gulf trawl sites in the Texas Territorial Sea during January-December 1988.

Month	Sabine	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
Jan	10.6	11.7	12.4	12.0	13.0	11.9
Feb	12.8	12.9	12.8	14.2	14.5	13.4
Mar	15.7	16.8	14.4	15.4	15.7	15.6
Apr	19.9	20.6	18.0	20.1	19.4	19.6
May	22.8	22.2	22.1	25.0	23.0	23.0
Jun	25.4	26.6	27.4	28.7	27.8	27.2
Jul	28.4	28.6	27.5	30.9	24.9	28.1
Aug	29.9	30.4	29.6	29.1	23.7	28.6
Sep	28.6	27.7	27.5	29.0	28.7	28.3
Oct	24.8	24.8	24.6	24.8	26.8	25.1
Nov	20.1	21.2	22.3	22.9	24.4	22.2
Dec	14.5	15.9	16.9	18.0	19.3	16.9

Table B.18. Monthly mean bottom turbidity (NTU) at sampled gulf trawl sites in the Texas Territorial Sea during January-December 1988.

Month	Sabine	Galveston	Port O'Connor	Port Aransas	Port Isabel	Coastwide
Jan	2	10	14	9	3	8
Feb	7	12	10	4	4	7
Mar	8	8	14	3	3	7
Apr	3	10	4	4	4	5
May	4	10	6	3	3	5
Jun	12	3	14	3	5	7
Jul	6	4	7	3	4	5
Aug	4	9	3	4	4	5
Sep	8	9	7	3	3	6
Oct	10	5	17	3	4	8
Nov	7	18	5	7	5	9
Dec	7	8	23	3	4	9

Table B.19. Monthly mean shoreline salinity (0/00) at sampled 60.9-m beach seine sites in five Texas gulf areas during January-December 1988.

Month	Gulf-17	Gulf-18	Gulf-19	Gulf-20	Gulf-21	Coastwide
Jan	27.1	29.0	29.7	32.0	30.6	30.0
Feb	24.0	25.1	29.0	33.8	32.9	28.6
Mar	22.0	26.6	31.1	32.5	33.3	28.9
Apr	29.0	30.1	33.1	31.7	32.7	31.4
May	27.4	30.3	31.8	33.2	39.0	31.6
Jun	27.8	29.9	32.2	34.0	37.7	31.8
Jul	29.0	30.2	32.8	37.8	39.0	33.2
Aug	27.5	31.6	35.5	37.8	36.6	33.6
Sep	29.2	31.3	31.3	35.7	35.8	32.1
Oct	27.0	29.4	30.0	35.2	32.4	30.4
Nov	31.8	32.1	29.4	35.9	38.3	32.5
Dec	32.7	30.0	28.9	33.6	37.2	31.7

Table B.20. Monthly mean shoreline temperature (C) at sampled 60.9-m beach seine sites in five Texas gulf areas during January-December 1988.

Month	Gulf-17	Gulf-18	Gulf-19	Gulf-20	Gulf-21	Coastwide
Jan	9.6	10.5	12.1	13.1	11.9	11.4
Feb	16.0	13.5	12.7	16.1	15.4	14.5
Mar	18.5	17.1	18.0	17.5	20.0	18.1
Apr	24.1	17.7	20.4	22.7	20.9	21.3
May	24.5	24.4	24.5	26.0	23.0	24.6
Jun	29.3	27.6	28.2	29.0	29.3	28.6
Jul	30.8	29.2	29.9	30.1	27.8	29.8
Aug	31.0	30.2	30.6	29.2	27.2	30.0
Sep	28.8	27.4	28.5	27.4	29.4	28.3
Oct	23.8	23.6	25.7	25.9	26.9	25.1
Nov	20.8	21.1	20.6	23.8	21.9	21.4
Dec	14.1	17.1	16.3	15.0	18.4	15.9

Table B.21. Monthly mean shoreline turbidity (NTU) at sampled 60.9-m beach seine sites in five Texas gulf areas during January-December 1988.

Month	Gulf-17	Gulf-18	Gulf-19	Gulf-20	Gulf-21	Coastwide
Jan	74	89	49	29	9	52
Feb	54	54	39	44	17	43
Mar	42	33	58	18	19	39
Apr	24	7	22	12	5	17
May	47	23	41	14	11	31
Jun	24	8	33	10	4	20
Jul	48	18	25	7	5	24
Aug	52	26	19	5	11	24
Sep	20	22	17	8	7	16
Oct	71	30	29	7	11	33
Nov	46	32	39	13	19	33
Dec	40	10	24	9	12	22

Table B.22. Monthly mean shoreline salinity (0/00) at sampled 18.3-m bag seine sites in five Texas gulf areas during January-December 1988.

Month	Gulf-17	Gulf-18	Gulf-19	Gulf-20	Gulf-21	Coastwide
Jan	27.3	28.7	29.5	31.6	30.6	29.4
Feb	24.0	24.6	28.9	33.8	32.7	28.4
Mar	22.0	26.8	31.4	33.2	33.3	29.1
Apr	29.0	30.3	32.8	31.0	32.7	31.2
May	27.2	29.8	31.8	33.2	39.0	31.5
Jun	28.0	30.1	32.7	34.3	37.7	32.1
Jul	28.8	30.5	32.7	37.4	39.0	33.0
Aug	28.0	31.5	35.6	37.9	36.6	33.8
Sep	29.2	31.1	31.1	35.8	35.8	32.0
Oct	27.0	29.5	29.9	35.0	32.4	30.4
Nov	31.8	32.6	29.4	35.8	38.3	32.6
Dec	32.7	30.0	29.0	33.4	37.2	31.7

Table B.23. Monthly mean shoreline temperature (C) at sampled 18.3-m bag seine sites in five Texas gulf areas during January-December 1988.

Month	Gulf-17	Gulf-18	Gulf-19	Gulf-20	Gulf-21	Coastwide
Jan	9.7	10.9	12.1	13.1	11.9	11.5
Feb	16.0	13.6	12.7	16.1	15.4	14.5
Mar	18.5	17.1	17.9	17.5	20.0	18.1
Apr	23.0	17.8	20.4	22.7	20.7	21.1
May	24.6	24.3	24.6	26.0	23.0	24.6
Jun	29.5	28.8	28.4	29.0	29.3	28.9
Jul	31.0	29.4	29.9	30.6	27.8	30.0
Aug	30.9	30.2	30.6	29.3	27.2	30.0
Sep	28.7	27.6	28.4	27.6	29.4	28.3
Oct	24.4	23.6	25.6	25.9	26.9	25.2
Nov	21.0	21.1	20.6	24.1	21.9	21.6
Dec	14.2	17.2	16.3	15.2	18.4	16.0

Table B.24. Monthly mean shoreline turbidity (NTU) at sampled 18.3-m bag seine sites in five Texas gulf areas during January-December 1988.

Month	Gulf-17	Gulf-18	Gulf-19	Gulf-20	Gulf-21	Coastwide
Jan	81	87	49	23	9	52
Feb	56	51	40	44	17	43
Mar	45	34	59	14	19	40
Apr	28	7	23	11	5	18
May	47	27	40	12	11	32
Jun	25	6	21	10	4	16
Jul	41	20	25	8	5	23
Aug	28	24	18	6	11	18
Sep	20	23	18	8	7	16
Oct	51	37	27	8	11	29
Nov	49	29	44	13	19	35
Dec	37	10	22	10	12	20

Appendix C. Summary of SEAMAP samples by year and depth zone for brown shrimp, white shrimp, pink shrimp and blue crab off Texas during 1982-1988.

Table C.1. Mean catch rates (No./h) and mean size (mm) of select shellfishes caught during SEAMAP[a] sampling off Texas during June-July 1982-1988. 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
1982	0-18	22	1222	108	15	173	161	136	8	
	19-37	50	1427	115	0		20	138	1	
	38-55	29	138	145	0		<1	126	0	
	56-73	5	117	179	0		0		0	
	74-91	3	79	182	0		0		0	
1983	0-18	28	254	99	20	153	195	127	8	
	19-37	47	1445	119	1	167	87	121	4	
	38-55	24	304	132	0		1	118	1	
	56-73	8	66	156	0		0		0	
	74-91	2	71	168	0		0		0	
1984	0-18	16	733	116	30	174	4	151	6	
	19-37	40	1594	116	1	168	3	150	0	
	38-55	16	544	131	0		0		0	
	56-73	12	194	138	0		0		0	
	74-91	5	86	151	0		0		0	
1985	0-18	30	450	98	41	168	15	135	20	
	19-37	40	1362	112	2	167	10	131	4	
	38-55	14	150	127	0		<1	127	0	
	56-73	5	154	144	0		0		0	
	74-91	1	36	179	0		0		0	
1986	0-18	35	250	98	33	165	18	116	11	
	19-37	43	809	108	0		42	130	10	
	38-55	10	311	124	0		0		0	
	56-73	5	176	136	0		0		0	
	74-91	3	49	147	0		111		0	
1987	0-18	74	189	103	15	159	24	115	3	
	19-37	56	606	107	3	162	19	108	7	
	38-55	17	26	142	0		<1	180	2	
	56-73	8	16	177	0		0		1	
	74-91	7	11	177	0		0		0	
1988	0-18	75	227	106	4	166	22	110	5	
	19-37	50	309	113	0		2	127	2	
	38-55	17	18	126	0		0		0	
	56-73	7	4	180	0		0		0	
	74-91	7	3	198	0		0		0	

[a]Data presented here were collected by R/V OREGON II (NMFS) in conjunction with TPWD research vessels. The data were made available by the Southeast Area Monitoring and Assessment Program (SEAMAP). Samples collected with 12.2-m trawl, except 6.1-m trawl by TPWD vessels since 1987. Data normalized to 12.2-m trawl by NMFS.

Table C.2. Mean catch rates (No./h) and mean size (mm) of select shellfishes caught during SEAMAP[a] sampling off Texas during November 1986-1988. 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
1986	0-18	12	71		77		26		0	
	19-37	34	93		15		2		1	
	38-55	26	68		0		0		0	
	56-73	12	41		0		0		0	
	74-91	4	22		0		0		0	
1987	0-18	65	20		89		18		0	
	19-37	40	50		7		2		<1	
	38-55	12	21		0		0		0	
	56-73	2	6		0		0		0	
	74-91	1	0		0		0		0	
1988	0-18	77	21		98		9		0	
	19-37	49	48		15		12		0	
	38-55	16	44		0		1		0	
	56-73	10	15		0		0		0	
	74-91	7	8		0		0		0	

[a]Data presented here were collected with 12.2-m trawl by R/V OREGON II (NMFS) and with 6.1-m trawl by TPWD research vessels. The data were made available by the Southeast Area Monitoring and Assessment Program (SEAMAP). Data normalized to 12.3-m trawl by NMFS.

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