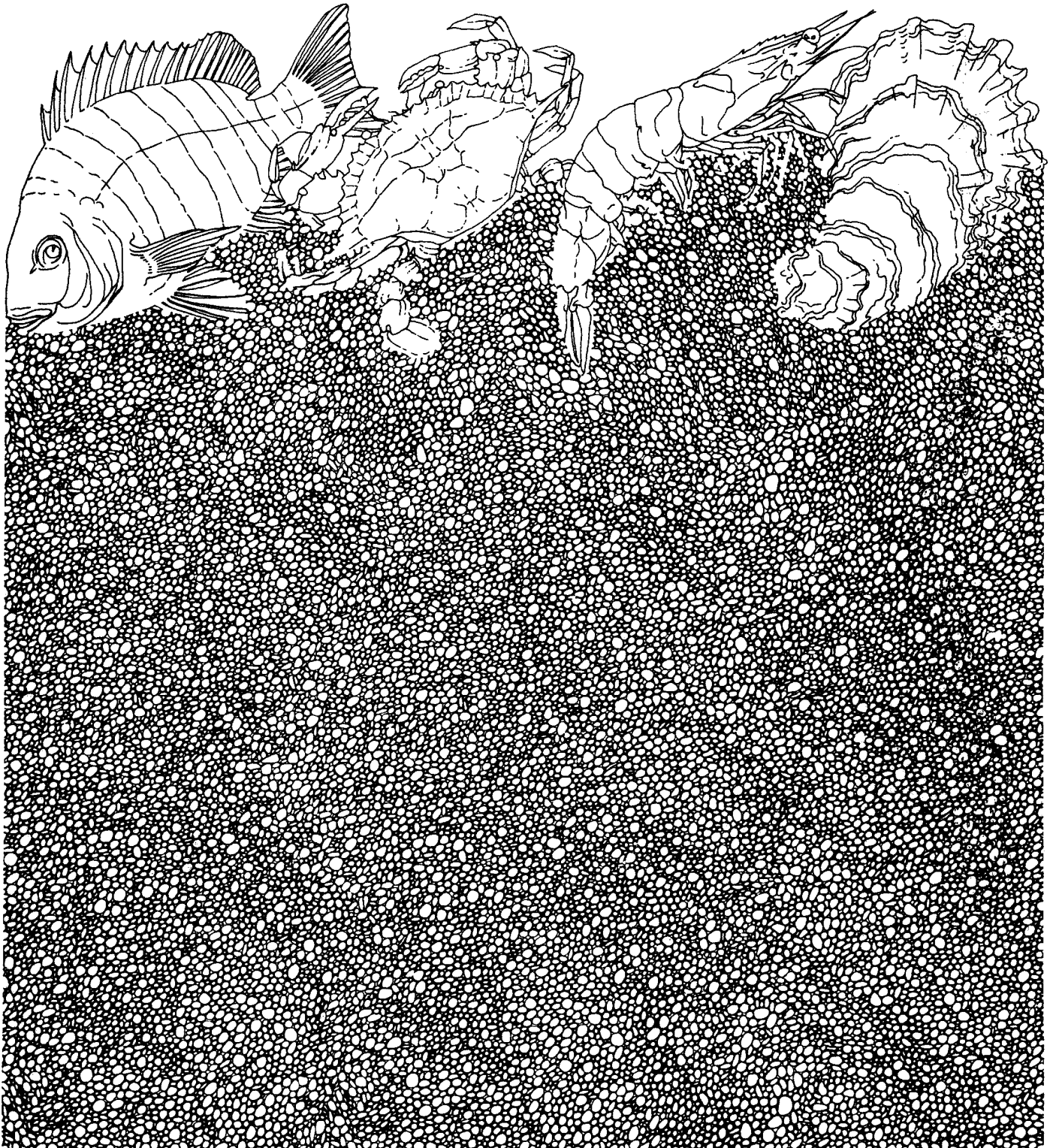


Trends in Relative Abundance and Size of Selected Finfishes in Texas Bays: November 1975 - December 1986

by Kenneth W. Rice, Lawrence W. McEachron and Paul C. Hammerschmidt

Management Data Series Number 139
1988

Texas Parks and Wildlife Department
Coastal Fisheries Branch



ERRATA FOR MDS NO. 139

Title Page - Date should be 1988.

Page iv - Acknowledgements. The Federal Aid Project (Project 2-44-R)
should be Project 2-427-R.

TRENDS IN RELATIVE ABUNDANCE AND SIZE OF SELECTED
FINFISHES IN TEXAS BAYS: NOVEMBER 1975-DECEMBER 1986

by

Kenneth W. Rice, Lawrence W. McEachron and Paul C. Hammerschmidt

MANAGEMENT DATA SERIES

No. 139

1987

Texas Parks and Wildlife Department
Coastal Fisheries Branch
4200 Smith School Road
Austin, Texas 78744

TABLE OF CONTENTS

LIST OF TABLES . . . . .	.ii
LIST OF FIGURES	iii
ACKNOWLEDGMENTS . . . . .	.iv
ABSTRACT	v
INTRODUCTION	1
MATERIALS AND METHODS	1
RESULTS	3
DISCUSSION	9
LITERATURE CITED . . . . .	.11
APPENDICES . . . . .	.49

LIST OF TABLES

- Table 1. Mean catch rates (No./h) and mean total lengths (mm) of selected fishes caught with gill nets (all meshes combined) by bay system during fall 1975-1986.. . . 13
- Table 2. Mean catch rates (No./h) and mean total lengths (mm) of selected fishes caught with gill nets (all meshes combined) by bay system during spring 1976-1986.. . 18
- Table 3. Annual mean catch rate (No./ha) and mean total lengths (mm) of fishes caught with bag seines by bay system during 1977-1986. 23

LIST OF FIGURES

Figure 1.	Sabine Lake System . . . . .	.28
Figure 2.	Galveston Bay System . . . . .	.30
Figure 3.	East Matagorda Bay System. . . . .	.33
Figure 4.	Matagorda Bay System . . . . .	.35
Figure 5.	San Antonio Bay System . . . . .	.38
Figure 6.	Aransas Bay System . . . . .	.40
Figure 7.	Corpus Christi Bay System. . . . .	.42
Figure 8.	Upper Laguna Madre System. . . . .	.44
Figure 9.	Lower Laguna Madre System. . . . .	.46

ACKNOWLEDGMENTS

We thank each member of the Texas Parks and Wildlife Department, Coastal Fisheries staff who conscientiously collected and recorded data. Special thanks to George Tate, Christine French, and Omar Torres for their assistance in editing tables. Jerry Clark, C. E. Bryan, and Jeff Doerzbacher provided valuable editorial comments.

This study was conducted with partial funding from the U.S. Department of Interior, Fish and Wildlife Service under DJ 15.605 (Project F-34-R), and the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service under PL 88-309 (Project 2-44-R).

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), and striped mullet (Mugil cephalus) have been monitored since 1975 using a standardized fishery independent gill net and bag seine sampling program in Texas bay systems. Fall and spring gill net catch rates indicate that declines in red drum and spotted seatrout populations have slowed or stopped since the prohibition of sale of these species in September 1981. However, the effect of these regulations has been affected by a coastwide fish kill caused by freezing temperatures during December 1983 and January 1984. Reduced population levels of red drum, spotted seatrout, and black drum following a freeze during 1983-1984 were observed in the 1984 and 1985 spring gill net catch rates and in the annual (1984) bag seine catches. Fall and spring 1986 gill net catch rates for red drum, spotted seatrout, and black drum increased or remained the same over 1985. The 1986 annual bag seine catch rates, however, declined for all three species. The 1986 data continue to show that the impacts of management decisions based on optimum sustained 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 2.04 billion kg in 1955 to 2.95 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).

The Texas Parks and Wildlife Department (TPWD) initiated a standardized fishery independent monitoring program in 1975 using gill nets and in 1977 using bag seines to assess the relative abundance and size of finfishes in Texas bays (Hegen 1983). Gill net sets during spring (15 April-15 June) and fall (15 September-15 November), and monthly bag seine samples provide a statistically consistent and cost efficient method for obtaining information on adult, sub-adult, and juvenile finfish populations (Hegen 1983, Hegen et al. 1983, Matlock et al. 1978, Matlock 1982a, Matlock et al. 1982, McEachron and Green 1986a). In the fall of 1981, the TPWD increased the number of gill net samples collected during periods of consistently high catch rates (spring and fall) to provide more precise estimates of annual abundance for each bay within the available TPWD budget (Hegen et al. 1983). Gill net and bag seine data are used to determine relative abundance and size to allocate and regulate the harvest.

The objectives of this study were to:

1. determine species composition, size and relative abundance of selected finfishes in the coastal bay systems of Texas.
2. publish the results in a report which will assist resource managers to effectively manage selected finfishes.

Differences in the gill net and bag seine statistics in this report compared to previous versions are due to updating the data base and this report should be considered the most accurate to date. Bag seine statistics in this report are presented on a calendar year basis rather than a fiscal year basis as in previous reports.

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 eight Texas bay systems during November 1975 through December 1986. 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 these bays during October 1977 through December 1986; East Matagorda Bay was added February 1983 and Sabine Lake January 1986. 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 approximately 100 stations in each bay system (McEachron and Green 1985). Beginning September 1984, gill net and bag seine sites were randomly selected from bay 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. Since October 1981, 10 bag seine samples were collected each month in each bay system. Prior to September 1984, half of the samples were collected during the first and last two fullest weeks of each month (McEachron and Green 1985). After September 1984, five stations were sampled during the 1st-15th and during the 16th-31st of each month. 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. The rectangular surface area sampled (nearest 0.01 ha) was estimated using the distance pulled and the length of extension of the bag seine. Each sampling week extended from sunrise Monday through sunset of the following Sunday, but 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), 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), "other finfishes" and "total finfishes" were calculated by dividing the total number of fish caught by the total hours fished (gill net) or ha sampled (bag seine) from all samples in a season (gill net) or month (bag seine) 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 (1986b). Coastwide catch rates were weighted by the length of each bay system's shoreline (Matlock and Ferguson 1982). Annual bag seine catch rates were calculated from monthly means (unweighted by sample size).

Total lengths (nearest 1 mm) of fishes 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 fish caught in each mesh. Total lengths of fishes caught in bag seines were obtained from a random sample of no more than 19 individuals of each species in each sample. Lengths of fishes greater than 204 mm were eliminated from bag seine mean length calculations based on the findings of McEachron and Green (1986b). Coastwide lengths 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 sample. Means for these parameters were calculated for each season (gill net) and for each month (bag seine).

RESULTS

Gill Net

The highest fall coastwide catch rates for red drum (1.0/h) occurred in 1979; the lowest catch rate (0.5/h) occurred in 1982 and 1983 (Table 1). 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 for any other bay system.

The highest spring coastwide red drum catch rate (0.8/h) occurred in 1980 and 1986 (Table 2). The 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 have ranged from <.1/h to 1.4/h.

The highest fall coastwide spotted seatrout catch rate (0.7/h) occurred in 1976 (Table 1). The catch rate in 1975 was 0.6/h. All

other catch rates since 1977 have ranged from 0.2-0.4/h. Fall catch rates within each bay system have ranged from 0.1-2.4/h.

Spring coastwide spotted seatrout catch rates were highest (1.1/h) in 1976 (Table 2). 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 in 1986 to 0.6/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 black drum catch rate (1.0/h) occurred in 1982 (Table 1). 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. Lower Laguna Madre catch rates (0.4-2.4/h) were generally higher than in any other bay system.

Spring coastwide black drum catch rates were highest (1.0/h) in 1983 (Table 2). They were lowest (0.3-0.4/h) in 1978, 1979 and 0.4/h in 1984-1986. Catch rates ranged from 0.6 to 0.7/h in all other years. Catch rates within each bay system have ranged from <0.1-2.7/h.

Fall and spring coastwide sheepshead catch rates were $\leq 0.3/h$ each year (Tables 1 and 2). Catch rates within each bay system have ranged from <0.1-1.3/h and from 0.0-0.6/h during fall and spring, respectively.

Fall and spring coastwide southern flounder catch rates were $\leq 0.2/h$ during all years (Tables 1 and 2). Catch rates within each bay system were $\leq 0.2/h$ except for East Matagorda Bay during fall 1976 (0.6/h) and fall 1980 and 1982 (0.3/h).

The highest fall coastwide Atlantic croaker catch rate (0.4/h) occurred in each of 1982, 1983 and 1986 (Table 1). Catch rates in all other years ranged from 0.1-0.3/h. The Corpus Christi Bay system generally had the highest catch rates (0.4-1.7/h).

The highest spring coastwide Atlantic croaker catch rate (0.3/h) occurred in 1976; rates were $\leq 0.2/h$ in all other years (Table 2). Catch rates within each bay system have ranged from 0.0-1.0/h.

Fall and spring coastwide sand seatrout catch rates were $\leq 0.1/h$ during all years (Tables 1 and 2). Catch rates within each bay system ranged from 0.0-0.3/h.

Fall coastwide gafftopsail catfish catch rates were $\leq 0.1/h$ in all years (Table 1). The San Antonio Bay system generally had the highest catch rates (0.0-0.4/h).

The highest spring coastwide gafftopsail catfish catch rates of 1.8 and 1.0/h occurred in 1976 and 1977, respectively; they were $\leq 0.5/h$ in all other years (Table 2). Catch rates (0.0-3.3/h) in the

Matagorda, San Antonio and Aransas Bay systems were generally higher than in the other bay system.

Fall coastwide Gulf menhaden catch rates were highest in 1976 (0.8/h) and 1977 (1.0/h); they were $\leq 0.5/h$ in all other years (Table 1). Catch rates in the Galveston and Corpus Christi Bay systems were generally higher (0.1-3.0/h) than in any other bay system.

The highest coastwide spring Gulf menhaden catch rate occurred in 1977 (0.9/h); catch rates were $\leq 0.5/h$ in all other years (Table 2). The Galveston Bay system catch rates were generally higher ($< 0.1-2.5/h$) than in any other bay system.

Highest fall coastwide hardhead catfish catch rates (0.7-0.9/h) occurred during 1982-1985 (Table 1). The lowest catch rate (0.2/h) occurred in 1986. Catch rates in the Galveston Bay system were generally higher (0.2-1.6/h) than in any other bay system.

Coastwide spring hardhead catfish catch rates were highest (1.6-1.8/h) during 1982-1986; they ranged from 0.9-1.4/h in all other years (Table 2). Catch rates in the Galveston Bay system were higher (1.6-4.0/h) than in any other bay system.

Fall and spring coastwide pinfish catch rates were $\leq 0.1/h$ in all years (Table 1 and 2). Catch rates within each bay system were $\leq 0.1/h$ except for Corpus Christi Bay (0.2/h) in falls 1980 and 1983.

Coastwide fall spot catch rates were $\leq 0.2/h$ in all years (Table 1). Fall catch rates in the Corpus Christi Bay system generally equaled or were higher ($< 0.1-0.9/h$) than in any other bay system.

Coastwide spring spot catch rates were $\leq 0.1/h$ in all years (Table 2). Spring catch rates within each bay system have ranged from 0.0-0.6/h.

The highest coastwide fall striped mullet catch rate (0.8/h) occurred in both 1975 and 1976; rates ranged from 0.2-0.4/h in all other years (Table 1). The San Antonio, Aransas and lower Laguna Madre Bay systems generally had the highest catch rates (0.2-2.9/h).

Spring coastwide striped mullet catch rates ranged from 0.1-0.3/h in all years (Table 2). Catch rates in each bay system have ranged from 0.0-0.9/h.

Fall and spring 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 have ranged from $< 0.1-2.7/h$. Generally, catch rates in the upper Laguna Madre were lower (0.1-0.5/h) than in any other bay system during both fall and spring.

Fall and spring 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 have ranged from 1.1-11.1/h. Generally, highest catch rates (4.6-11.1/h) were recorded in the Galveston Bay system during spring in all years.

Fall and spring coastwide mean lengths did not vary over about 100 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 423-495 mm. Black drum mean lengths ranged from 341-417 mm. Sheepshead mean lengths ranged from 297-382 mm. Southern flounder mean lengths ranged from 320-363 mm. Atlantic croaker mean lengths ranged from 266-321 mm. Sand seatrout mean lengths ranged from 210-318 mm. Gafftopsail catfish mean lengths ranged from 495-567 mm. Gulf menhaden mean lengths ranged from 246-293 mm. Hardhead catfish mean lengths ranged from 312-342 mm. Pinfish mean lengths ranged from 179-256 mm. Spot mean lengths ranged from 222-257 mm. Striped mullet mean lengths ranged from 323-367 mm.

The highest catch rates for red drum, spotted seatrout, Atlantic croaker, Gulf menhaden, hardhead catfish, pinfish, spot, striped mullet, "other finfishes", and "total finfishes" occurred in the 7.6- and 10.2-cm meshes (Appendix C). Black drum, sheepshead, southern flounder, sand seatrout, and gafftopsail catfish 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. The largest fish of each species were generally caught in the 12.7- and 15.2-cm meshes.

Hydrologic data varied among seasons, among years and among bay systems (Appendix B). Coastwide annual salinities ranged from 15.9 to 27.9 o/oo during fall and from 14.4 to 27.6 o/oo during spring. Salinities were generally higher (17.1-46.8 o/oo) in the upper and lower Laguna Madre than in any other bay system. Coastwide water temperatures were generally lower during fall (21.2-26.0 C) than during spring (25.0-27.4 C). This pattern was consistent in each bay system. Dissolved oxygen ranged from 6-11 ppm in all bay systems during all years in both seasons except for Aransas Bay in fall 1975 (13 ppm), San Antonio Bay in spring 1980 (5 ppm) and 1982 (4 ppm); and San Antonio Bay in fall 1986 (13 ppm). Turbidities were generally <92 Jackson Turbidity Units (JTU) coastwide and in all bay systems in both seasons.

Bag Seine

Coastwide red drum catch rates were highest (21-26/ha) during 1980-1983 and lowest (6/ha) in 1984; they ranged from 7-19/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 9-14/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.

Coastwide black drum catch rates were highest (13-16/ha) in 1978 and 1979 (Table 3). The lowest catch rates (1/h) was recorded in 1986. Highest bay system catch rates occurred in Galveston Bay (2-40/ha); catch rates in all other bay systems were generally ≤ 12 /ha except San Antonio Bay in 1978 (22/ha), and lower Laguna Madre in 1979 (18/ha).

The 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) and 1986 (6/ha). All other catch rates ranged from 1-4/ha (Table 3). Individual bay system catch rates were ≤ 11 /ha except in Aransas Bay (18/ha) and lower Laguna Madre (13/ha) in 1982 and in Matagorda Bay (19/ha) and lower Laguna Madre (12/ha) in 1986.

Coastwide Atlantic croaker catch rates were highest in 1982 (471/ha) and 1984 (402/ha) and lowest in 1978 (122/ha) and 1985 (123/ha) (Table 3). All other catch rates ranged from 136-364/ha. Galveston Bay had highest catch rates (149-1812/ha) during all years.

Coastwide sand seatrout catch rates were highest (13-15/ha) during 1982-1984 (Table 3). They were ≤ 5 /ha in all other years except 1979 (10/ha). Highest bay system catch rates occurred in Galveston (8-49/ha), East Matagorda (4-10/ha), and Matagorda (2-31/ha) Bays; catch rates in all other bay systems were ≤ 2 /ha except for lower Laguna Madre in 1984 (8/ha).

Coastwide Gulf menhaden catch rates fluctuated between 312/ha and 3343/ha in all years (Table 3). Highest bay system catch rates occurred Galveston (122-14,717/ha) and Matagorda Bays (115-10,076/ha); catch rates in all other bay systems were generally <1600/ha except Aransas Bay in 1978 (3310/ha).

Coastwide hardhead catfish catch rates were highest (22-25/ha) during 1983-1984 and lowest (9/ha) in 1978 (Table 3). They ranged from 12-21/ha in all other years. Highest bay system catch rates occurred in Galveston (12-70/ha), East Matagorda (10-38/ha), and Matagorda (13-54/ha) Bays; catch rates in all other bay systems were ≤ 20 /ha except in Aransas Bay in 1984 (24/ha) and in San Antonio Bay in 1986 (30/ha).

Coastwide pinfish catch rates were lowest (47-66/ha) during 1978-1979, intermediate (148-151/ha) in 1980 and 1981 and highest (212-

1979, intermediate (148-151/ha) in 1980 and 1981 and highest (212-288/ha) during 1982-1986 (Table 3). Bay system catch rates ranged from 1/ha in lower Laguna Madre in 1979 to 648/ha in Aransas Bay in 1983.

Coastwide spot catch rates were highest in 1982 (350/ha) and 1984 (431/ha) and lowest in 1979 (156/ha) and 1980 (160/ha); they ranged from 185-315/ha in all other years (Table 3). Bay system catch rates ranged from 21/ha in Matagorda Bay in 1979 to 948/ha in lower Laguna Madre in 1984.

Coastwide striped mullet catch rates fluctuated from 35/ha in 1986 to 174/ha in both 1979 and 1982 (Table 3). Bay system catch rates ranged from 15/ha in upper Laguna Madre in 1983 and Matagorda Bay in 1980 to 553/ha in Matagorda Bay in 1982.

Coastwide catch rates for "other finfishes" ranged from 769/ha in 1986 to 1591/ha in 1979 (Table 3). Bay system catch rates ranged from 278/ha in Matagorda Bay in 1982 to 3419/ha in Aransas Bay in 1982.

The highest coastwide catch rate (5240/ha) for "total finfishes" occurred in 1980; catch rates in all other years ranged from 2028-4188/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 monthly bag seine catch rates in 1986 indicated seasonal peaks in abundance which were unique for each species (Appendix C). Red drum coastwide catch rates were highest during January-April and December. Coastwide spotted seatrout catch rates were highest during July-November. The highest catch rate for black drum occurred in July and August. Coastwide sheephead catch rates were highest during May-July and September and November. Highest coastwide southern flounder catch rates occurred during February-April and August. Coastwide Atlantic croaker catch rates were highest during February-May. Sand seatrout coastwide catch rates were highest during May-June. Gafftopsail catfish were not caught during 1986. Coastwide Gulf menhaden catch rates were highest during April-June. Coastwide hardhead catfish catch rates were highest during August-September. Coastwide pinfish catch rates were highest during April-September. Spot coastwide catch rates were highest during February-May. Striped mullet coastwide catch rates were generally highest during January-September. Highest coastwide catch rates of "other finfishes" occurred in January, March and May. The coastwide catch rates for "total finfishes" were highest during January-July.

Hydrologic data during 1986 varied among months and among bay systems (Appendix B). Coastwide salinities ranged from 20.0 o/oo in June to 28.8 o/oo in September. Individual bay system salinities were generally higher in the upper and lower Laguna Madre than in any other bay system. Water temperatures followed seasonal trends, declining during fall, increasing during spring, with lowest

temperatures in winter (14.1 C) and highest temperatures in summer (31.1 C). Dissolved oxygen ranged from 8-11 ppm coastwide. Turbidities were generally ≤ 92 JTU's coastwide and in all bay systems.

DISCUSSION

Independent monitoring programs utilizing gill nets and bag seines can be used to indicate changes in fish abundance on a coastwide basis. McEachron and Green (1986b) 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). The declines in relative abundance of red drum and spotted seatrout (Matlock 1982b) have stabilized since the imposition of these regulations. However, the full effect of these regulations may not be evident for 5-8 years because spotted seatrout and red drum do not spawn until 3-5 years of age and it takes them 2-3 years to reach a catchable size.

Effective management of fish 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.

Statistics from the TPWD standardized monitoring program have documented the effects of a catastrophic freeze on finfish populations. The Texas coast experienced a severe fish kill due to cold temperatures during late December 1983 and early January 1984 (McEachron et al. 1984). Preliminary estimates revealed that over 15 million marine organisms were killed. Of these, approximately 567,000 were spotted seatrout, 285,000 were black drum, 183,000 were sheepshead, 160,000 were Atlantic croaker and 90,000 were red drum. The spotted seatrout spring 1984 gill net catch rate declined to the lowest level recorded during the past 10 years but increased to an intermediate level in spring 1986. The red drum spring gill net catch rate declined to an intermediate level following the freeze, however, it increased in the spring of 1986 to one of the highest levels in 10 years. The black drum spring catch rate remained at the same low level for the spring of 1986 as it was in spring 1984. Fall 1986 gill net catches increased or remained the same for these three species. Thus there is improvement in population levels. Spring and fall gill net catch rates for sheepshead, southern flounder, Atlantic croaker, and sand seatrout were generally low in all years and changes in population levels were not obvious. Bag seine catch rates in 1984 for red drum, spotted seatrout, black drum, and sheepshead

were the lowest recorded since sampling began; all other species catch rates were greater than the lowest levels previously recorded. The 1986 red drum, spotted seatrout, and black drum bag seine catch rates decreased slightly from 1985, however, only black drum had a catch rate lower than in 1984.

Relative abundance of juvenile fishes is 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 1986b). The 1986 monthly bag seine catches in this report also indicate specific periods of high abundance for these species. A more efficient method of estimating abundance in bag seines 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 bag seines be statistically determined for each of the species and that these "seasonal" catch rates be presented in future reports.

LITERATURE CITED

- Anderson, A. W., and E. A. Power. 1957. Fishery statistics of the United States, 1955. United States Department of Interior, Fish and Wildlife Service Statistical Digest Number 41.
- Cushing, D. H. 1970. Fisheries biology: a study in population dynamics. University of Wisconsin Press, Madison, Wisconsin.
- Gulland, J. A. 1977. The management of marine fishes. University of Washington Press, Seattle, Washington.
- Hegen, H. E. 1983. Monitoring of coastal finfish resources for sport fish management, October 1981-September 1982. Management Data Series Number 49. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- Hegen, H. E., G. C. Matlock, and A. W. Green. 1983. Evaluation of gill and trammel net sampling strategies for monitoring finfish availability in Texas bays. Technical Series Number 33. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- Matlock, G. C. 1982a. Evaluation of 732-m trammel net for estimating finfish abundance in Texas bays. Management Data Series Number 34. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- Matlock, G. C. 1982b. The conflict between user groups of red drum and spotted seatrout in Texas. Proceedings of the Seventh Annual Marine Recreational Fisheries Symposium May 10-11, 1982, Fort Lauderdale, Florida, Sport Fishery Institute, Washington, District of Columbia.
- Matlock, G. C., and M. O. Ferguson. 1982. Shallow-water surface areas and shoreline distances on the Texas coast. Management Data Series Number 37. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- Matlock, G. C., J. E. Weaver, and A. W. Green. 1982. Sampling near shore estuarine fishes with rotenone. Transactions of the American Fisheries Society. 111(3):326-331.
- Matlock, G. C., J. E. Weaver, L. W. McEachron, J. A. Dailey, P. C. Hammerschmidt, H. E. Hegen, R. A. Harrington, and G. M. Stokes. 1978. Evaluation of 1463-m trammel net and 4-square gill nets for estimating finfish abundance in Texas bays. PWD Report Number 3000-55. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.

- McEachron, L. W., and A. W. Green. 1985. Trends in relative abundance of selected finfishes along the Texas coast: November 1975-June 1984. Management Data Series Number 79. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- McEachron, L. W., and A. W. Green. 1986a. Trends in relative abundance of selected finfishes along the Texas coast: November 1975-June 1985. Management Data Series Number 91. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- McEachron, L. W., and A. W. Green. 1986b. Assessment of annual relative abundance and mean length of six marine fishes in Texas coastal waters. Proceedings of the 38th. Annual Conference Southeastern Association of Fish and Wildlife Agencies. 38:506-519.
- McEachron, L. W., G. Saul, J. Cox, C. E. Bryan, and G. Matlock. 1984. Fish kill. Texas Parks and Wildlife Magazine XXXII(4):10-13.
- Texas Parks and Wildlife Department. 1983. Saltwater finfish research and management in Texas. PWD Report Number 3000-154. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.
- United States Department of Commerce. 1982. Fisheries of the United States, 1981. Current Fisheries Statistics Number 8200 (April 1982). United States Government Printing Office, Washington, District of Columbia.
- United States Department of the Interior, Fish and Wildlife Service. 1956. National survey of fishing and hunting, 1955. United States Government Printing Office, Washington, District of Columbia.
- United States Department of the Interior, Fish and Wildlife Service, and United States Department of Commerce, Bureau of the Census, 1982. 1980 National survey of fishing, hunting, and wildlife-associated recreation. United States Government Printing Office, Washington, District of Columbia.

Table 1. Mean catch rates (No./h) and mean total lengths (mm) of selected fishes caught with gill nets (all meshes combined) by bay system during fall 1975-1986. Blank indicates no measurement taken; ND = no data.

Species	Year	Bay System																				
		Sabine Lake			Galveston			East			Upper Laguna Madre			Lower Laguna Madre			Coastwide					
		No./h	Length	No./h	Length	No./h	Length	Matagorda	San Antonio	Aransas	Christi	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Red drum	1975	ND		1.2	399	ND		1.2	337	1.0	326	0.8	335	0.4	330	0.3	424	0.7	474	0.9	372	
	1976	ND		1.0	509	0.3	486	0.5	415	1.6	406	0.4	395	0.5	460	0.4	442	1.3	465	0.9	454	
	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	378	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	452	0.6	449	0.7	419	
	1981	ND		0.5	429	0.6	404	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	442	0.9	401	0.6	390	0.5	360	0.4	386	0.2	411	0.2	459	0.5	440	0.5	413	
	1983	ND		0.6	436	0.8	394	0.5	418	0.6	407	0.4	440	0.3	448	0.2	479	0.7	509	0.5	440	
	1984	ND		0.9	451	1.1	552	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	395	0.8	427	0.7	436	0.3	460	0.9	478	0.8	423	
	1986	0.4		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	
	Spotted seatrout	1975	ND		0.2	420	ND		0.6	419	1.1	388	0.7	476	0.4	479	0.2	455	0.8	413	0.6	432
		1976	ND		0.4	467	1.0	451	0.4	437	0.7	427	0.2	448	0.6	387	0.2	448	2.4	431	0.7	434
		1977	ND		0.2	501	0.3	461	0.4	455	0.5	389	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	424	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	459	0.4	468	0.3	430	0.4	428	0.2	446	0.2	457	0.4	437	0.5	453	0.3	446	
1983		ND		0.4	464	0.5	420	0.3	438	0.5	425	0.2	459	0.3	435	0.7	509	0.6	476	0.4	452	
1984		ND		0.4	465	0.3	461	0.1	430	0.2	420	0.1	453	0.2	467	0.1	400	0.4	458	0.2	454	
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		0.4	438	0.4	444	0.5	431	0.4	432	0.3	441	0.4	464	0.3	437	1.0	472	0.4	444	
Black drum		1975	ND		0.4	379	ND		0.9	326	0.5	315	0.8	305	0.4	358	1.2	422	1.0	454	0.7	375
		1976	ND		0.4	339	0.8	305	0.9	344	1.2	323	0.6	376	0.3	366	1.1	503	2.4	419	0.9	390
		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	0.7	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	358	2.4	346	0.6	352	1.0	296	1.0	337	0.5	365	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	349	0.1	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		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	

Table 1. (Cont'd.).

Species	Year	Bay System																			
		Sabine Lake		Galveston		East		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
Sheeps-head	1975	ND		0.1	362	ND		0.1	316	0.2	283	1.3	297	0.2	376	0.3	409	0.1	352	0.3	320
	1976	ND		<.1	331	0.1	283	0.2	273	0.4	329	1.0	255	0.2	328	0.2	399	0.4	341	0.3	297
	1977	ND		<.1	342	0.3	316	0.1	314	0.2	321	0.5	267	0.1	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	0.1	349	0.2	338
	1980	ND		0.1	283	0.1	309	<.1	353	0.7	296	0.6	307	0.1	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	<.1	313	0.1	296	0.2	350	0.1	365	0.2	383	0.3	300	0.1	340
	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	380
	1985	ND		<.1	380	0.2	379	<.1	374	<.1	362	<.1	326	<.1	352	<.1	435	<.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	<.1	351	0.1	336
	Southern flounder	1975	ND		<.1	317	ND		0.1	323	<.1	243	<.1	280	0.2	380	0.1	448	0.1	338	0.1	344
1976		ND		<.1	359	0.6	323	<.1	296	0.2	363	0.1	304	0.2	351	<.1	351	0.1	389	0.1	347
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	398	0.2	400	0.1	354
1981		ND		0.1	326	0.1	351	0.1	335	0.1	311	0.1	350	0.1	348	0.1	387	0.1	358	0.1	346
1982		ND		0.2	346	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	361
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	0.2	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
Atlantic croaker		1975	ND		<.1	250	ND		0.0		<.1	292	0.2	335	0.4	321	0.1	314	0.1	343	0.1	321
	1976	ND		0.2	262	0.1	250	0.3	263	0.4	296	0.2	314	0.6	320	0.5	331	0.3	326	0.3	304
	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	262	0.2	320	1.7	321	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		0.3	292	0.4	256	0.1	277	0.2	278	0.4	328	1.0	327	0.4	338	0.3	330	0.4	313
	1983	ND		0.3	275	0.4	261	0.2	263	0.3	286	0.3	307	1.0	320	0.1	312	0.5	314	0.4	302
	1984	ND		0.2	274	0.2	259	0.1	259	0.2	274	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

Table 1. (Cont' d.).

Species	Year	Bay system														Coastwide								
		Sabine Lake		Galveston		East		Matagorda		San Antonio		Aransas		Corpus Christi			Upper Laguna Madre		Lower Laguna Madre					
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length		No./h	Length	No./h	Length	No./h	Length		
Sand seatrout	1975	ND		0.2	320	ND		0.3	291	0.0		<.1	325	<.1	288	0.0		0.0		0.0	0.1	305		
	1976	ND		0.1	293	0.2	297	<.1	301	0.0		0.0			0.2	301	0.0		0.0		0.0	0.1	307	
	1977	ND		0.1	312	0.0		<.1	321	0.0		0.0			0.0			0.0		0.0	<.1	315		
	1978	ND		<.1	303	<.1		<.1	184	0.0		0.0			0.0			0.0		0.0	0.0	0.0	254	
	1979	ND		<.1	252	0.0		<.1	256	0.0	211	0.0			0.1	294	0.0		0.0		0.0	<.1	272	
	1980	ND		0.1	304	0.0		<.1	220	0.0		0.0			0.0			0.0		<.1	326	<.1	299	
	1981	ND		<.1	252	<.1	238	0.0	242	0.0	175	0.0			<.1	247	0.0		<.1	<.1	305	<.1	288	
	1982	ND		0.1	299	<.1	246	<.1	250	0.1	250	0.0			<.1	290	0.0		<.1	<.1	305	<.1	291	
	1983	ND		<.1	306	<.1	235	<.1	274	0.0	240	0.0	<.1	297	<.1	278	0.0		<.1	<.1	301	<.1	303	
	1984	ND		0.1	308	<.1	315	<.1	284	<.1	282	0.0	<.1	277	<.1	296	0.0		<.1	<.1	301	<.1	279	
	1985	ND		0.1	280	<.1	255	<.1	252	<.1	332	<.1	<.1	237	<.1	262	0.0		<.1	<.1	325	<.1	279	
	1986	<.1	281	<.1	303	<.1	239	<.1	253	<.1	254	<.1	<.1	206	<.1	250	<.1		<.1	<.1	279	<.1	279	
Gafftop- sail catfish	1975	ND		0.0		ND		0.1	571	0.0		<.1	540	0.1	575	0.0		0.0		0.0	<.1	567		
	1976	ND		0.1	476	0.0		0.2	526	0.4	498	0.0		587	<.1	476	0.0		0.0		0.0	0.1	510	
	1977	ND		0.0	516	0.0		<.1	499	0.2	526	0.0		385	<.1	600	0.1		0.0		0.0	0.1	516	
	1978	ND		0.0		0.0		<.1	514	0.0				543	0.0	551	0.0		0.0		0.0	<.1	534	
	1979	ND		0.0		0.2	542	0.0						499	<.1	533	0.0		0.0		0.0	282	0.1	525
	1980	ND		0.1	550	0.0		<.1	478	0.3	509	0.1		522	0.1	517	0.0		0.0		0.0	0.1	507	
	1981	ND		0.1	492	0.0		<.1	505	0.1	542	0.1		511	0.1	523	0.0		<.1	379	<.1	507		
	1982	ND		<.1	433	<.1		<.1	520	0.3	527	0.1		533	<.1	545	0.0		0.0		0.0	0.1	518	
	1983	ND		<.1	492	0.1	616	<.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		<.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		
Gulf menhaden	1975	ND		0.6	274	ND		1.7	302	0.1	302	0.2		316	0.5	284	0.3		0.1		0.1	293		
	1976	ND		3.0	240	<.1		0.3	246	0.3	275	0.1		267	0.5	275	0.2		0.1		0.1	246		
	1977	ND		3.0	246	<.1		0.2	244	0.1	240	<.1		237	2.0	254	1.4		0.1		0.1	249		
	1978	ND		0.6	249	0.5		<.1	241	0.1	239	0.6		242	1.4	250	0.2		0.0		0.0	248		
	1979	ND		0.1	249	0.1		0.4	250	<.1	235	0.1		251	0.3	251	0.1		0.1		0.1	248		
	1980	ND		0.3	253	<.1		<.1	260	0.1	255	0.1		245	<.1	243	0.7		<.1		0.1	252		
	1981	ND		0.7	259	0.0		0.1	246	0.1	242	0.1		238	0.3	255	0.7		0.1		0.1	258		
	1982	ND		0.6	251	<.1		<.1	246	0.1	243	<.1		238	0.8	255	0.1		0.1		0.1	252		
	1983	ND		1.7	257	0.1		<.1	248	0.2	239	0.2		246	0.2	258	<.1		0.1		0.1	255		
	1984	ND		1.0	256	0.2		0.2	248	0.4	246	0.6		251	0.5	284	0.2		0.2		0.2	295		
	1985	ND		1.5	249	<.1		0.1	254	0.1	249	0.1		263	0.5	260	0.2		0.2		0.1	253		
	1986	0.2	246	1.5	244	0.1		0.3	239	0.1	244	0.2		249	0.9	263	<.1		<.1		<.1	261		

Table 1. (Cont'd.).

Species	Year	Bay system																			
		Sabine Lake			Galveston			East			Lower Laguna Madre			Coastwide							
		No./h	Length	No./h Length	No./h	Length	No./h	Length	Matagorda	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	No./h	Length	No./h	Length		
Hardhead catfish	1975	ND		0.8	312	ND		0.2	309	0.6	321	0.1	309	0.3	325	0.5	307	0.3	298	0.4	312
	1976	ND		0.7	351	<.1	322	0.2	283	0.8	310	0.2	289	0.3	300	0.5	291	0.5	292	0.4	315
	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	0.5	294	0.5	330	0.4	325
	1981	ND		1.0	341	0.3	319	0.3	331	1.0	345	0.4	345	0.4	347	0.2	312	0.7	348	0.6	340
	1982	ND		1.5	346	0.4	334	0.2	332	0.8	342	0.3	347	0.3	348	0.6	305	0.8	331	0.7	338
	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	1.1	323	0.4	326	1.0	337	0.6	340	0.4	342	0.9	307	0.9	329	0.9	329
	1985	ND		1.2	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	0.1	342	0.2	336	0.2	351	0.2	356	0.1	356	0.2	299	0.2	353	0.2	342
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		210		0.0	209	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	220
	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	153	0.0		<.1	194	<.1	154	<.1	199	<.1	224	<.1	190	<.1	172	0.1	182
	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
Spot	1975	ND		0.0		ND		<.1	305	<.1	230	0.1	236	0.9	245	0.4	267	0.2	236	0.2	250
	1976	ND		0.3	236	<.1	260	0.2	229	0.3	236	<.1	238	0.3	228	0.1	237	0.5	257	0.2	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	0.2	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	239	<.1	246	0.1	232	0.1	274	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	283	0.1	242	<.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	236	0.1	245	0.1	229	0.2	243	0.2	239

Table 1. (Cont'd.).

Species	Year	Bay System																	
		Sabine Lake			Galveston			East			Upper Laguna Madre			Lower Laguna Madre			Coastwide		
		No./h	Length	No./h Length	No./h	Length	No./h Length	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	No./h	Length	No./h	Length	No./h	Length
Striped mullet	1975	ND		0.4	332	ND		0.6	322	2.9	328	1.0	382	0.3	358	0.5	345	0.8	338
	1976	ND		0.3	346	0.2	313	1.6	331	0.5	360	0.3	342	0.7	402	2.0	397	0.8	367
	1977	ND		0.2	345	0.2	380	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	0.5	322	1.1	336	0.1	336	0.1	364	0.3	387	0.4	347
	1979	ND		0.1	351	0.1	338	0.8	344	0.8	344	0.3	353	0.6	410	0.3	365	0.4	357
	1980	ND		0.2	362	<.1	319	0.6	357	0.1	357	0.3	340	0.3	357	0.4	346	0.3	353
	1981	ND		0.1	395	0.1	349	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	0.4	341	0.8	331	0.2	245	0.1	348	0.4	372	0.4	347
	1983	ND		0.2	370	0.2	335	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	327	0.5	350	0.6	342	0.4	357	0.5	376	0.4	355	0.4	354
	1985	ND		0.2	338	0.2	326	0.5	355	0.3	343	0.2	342	0.3	397	0.3	375	0.3	354
	1986	<.1	328	0.3	377	0.3	328	0.4	369	0.2	356	0.2	358	<.1	370	0.6	359	0.2	359
	Other finfishes	1975	ND		1.5	481	ND		0.5	465	1.3	400	1.0	358	0.5	483	1.0	365	1.0	431
1976		ND		1.1	377	0.1	316	1.1	493	1.6	470	1.0	380	0.2	455	1.1	380	1.0	423
1977		ND		0.5	563	0.2	322	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	2.2	365	0.6	403	0.2	325	0.5	343	0.8	403	0.8	393
1979		ND		0.6	386	<.1	540	0.9	371	0.6	514	0.4	331	0.2	360	0.6	410	0.5	403
1980		ND		0.4	375	0.1	314	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	455	1.1	403	0.2	397	0.6	415	0.7	421
1982		ND		1.0	354	0.7	319	1.1	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	474	1.8	367	0.1	394	0.6	417	1.0	418
1984		ND		1.1	393	0.7	313	0.7	515	0.3	633	0.8	412	0.1	441	0.6	526	0.7	488
1985		ND		1.0	369	0.4	341	0.7	516	0.5	582	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	483	0.6	339	0.1	465	0.5	407	0.7	447
Total finfishes		1975	ND		5.5	385	ND		6.6	355	8.4	346	5.7	343	4.3	374	4.8	394	5.8	364
	1976	ND		7.3	334	4.9	385	4.9	388	9.1	365	5.0	349	4.4	409	11.1	400	6.7	371
	1977	ND		6.2	334	3.2	362	5.4	388	6.2	348	3.6	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	3.6	358	3.1	395	4.3	355
	1979	ND		3.5	367	2.0	372	4.3	350	5.6	368	3.8	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	3.7	350	4.2	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	369
	1982	ND		6.0	347	6.2	354	3.7	372	5.1	360	4.5	366	5.1	337	3.5	363	5.9	381
	1983	ND		6.0	350	6.2	341	3.0	378	5.3	352	3.9	396	5.8	356	3.0	362	5.5	367
	1984	ND		6.5	364	5.7	381	2.1	367	3.9	362	3.4	399	4.2	347	3.1	373	4.2	374
	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	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

Table 2. Mean catch rates (No./h) and mean total lengths (mm) of selected fishes caught with gill nets (all meshes combined) by bay system during spring 1976-1986. Blank indicates no measurement taken; ND = No data.

Species	Year	Bay System																							
		Sabine Lake			Galveston			East			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	No./h	Length		
Red drum	1976	ND		<.1	310	ND		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	0.3	380	0.4	409	0.4	401	0.1	438	0.5	442	0.3	426						
	1978	ND		0.1	394	0.4	429	0.2	400	0.2	444	0.3	458	0.2	495	0.5	462	0.3	459						
	1979	ND		0.2	480	0.1	466	0.2	414	0.2	421	0.4	423	0.3	477	0.3	452	0.3	448						
	1980	ND		0.9	449	0.4	451	1.1	387	0.7	400	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	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	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	0.8	479	0.8	443						
	1984	ND		0.9	482	0.7	447	0.1	430	0.2	513	0.3	419	0.8	457	0.7	514	0.7	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				
	Spotted seatrout	1976	ND		<.1	530	ND		0.3	382	0.5	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	0.4	372	1.2	442	1.5	422	0.8	423					
1978		ND		0.2	523	0.4	441	0.6	409	1.4	408	0.1	435	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	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	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	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	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	509	1.3	500	0.7	475						
1984		ND		0.3	498	0.7	468	0.3	439	0.3	483	0.2	435	0.2	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	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	1.5	488	0.6	456						
Black drum		1976	ND		0.2	290	ND		0.8	418	1.0	369	0.6	360	0.5	352	0.9	387	0.7	366					
		1977	ND		0.4	388	0.3	262	0.5	519	1.0	314	1.2	316	0.4	376	0.9	428	0.7	374					
	1978	ND		0.2	439	0.4	345	0.2	300	0.1	306	0.4	358	0.4	327	0.8	395	0.3	372						
	1979	ND		0.3	292	0.7	328	0.5	415	<.1	370	0.3	322	0.1	374	0.9	413	0.4	372						
	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	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	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	0.7	347				
	1983	ND		0.9	337	2.7	365	0.6	355	0.6	323	1.2	340	0.9	371	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	473	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				

Table 2. (Cont'd.).

Species	Year	Bay System																	
		Sabine Lake			East			Corpus Christi			Upper Laguna Madre			Lower Laguna Madre			Coastwide		
		No./h	Length	No./h Length	Matagorda	Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre
Sheeps-head	1976	ND		0.0	420	0.3	341	0.6	342	0.0	0.3	367	0.3	317	0.2	345			
	1977	ND		<.1	280	0.2	308	<.1	232	0.1	294	0.1	380	0.1	311				
	1978	ND		0.0	278	0.1	313	0.2	354	0.2	351	0.2	395	0.2	349				
	1979	ND		<.1	391	<.1	402	0.1	320	0.5	362	0.1	370	0.2	350				
	1980	ND		<.1	334	0.1	320	0.2	353	0.2	322	0.2	369	0.3	345				
	1981	ND		<.1	453	0.6	335	0.3	349	0.1	319	0.2	390	0.6	342				
	1982	ND		0.0	330	0.2	354	<.1	326	0.2	343	0.2	361	0.6	336				
	1983	ND		0.1	373	0.2	372	0.1	349	0.3	370	0.2	392	0.4	354				
	1984	ND		0.1	387	0.2	398	<.1	401	0.2	379	0.1	385	0.2	370				
	1985	ND		<.1	337	<.1	409	<.1	382	0.1	424	<.1	427	0.1	382				
	1986	<.1	372	<.1	369	0.1	417	<.1	305	0.1	388	<.1	427	0.1	370				
Southern flounder	1976	ND		0.0	328	0.1	335	0.0	358	0.0	0.0	0.0	350	0.2	345				
	1977	ND		<.1	358	<.1	208	0.1	338	<.1	430	0.0	345	<.1	347				
	1978	ND		<.1	330	0.1	279	<.1	291	0.1	323	<.1	344	0.1	320				
	1979	ND		<.1	290	0.1	388	<.1	338	0.1	373	<.1	366	0.1	354				
	1980	ND		0.1	307	<.1	291	0.1	292	0.1	316	<.1	364	0.1	330				
	1981	ND		<.1	340	<.1	291	<.1	368	0.1	332	0.1	348	0.1	323				
	1982	ND		0.1	307	<.1	305	0.1	299	0.1	361	0.1	337	0.1	332				
	1983	ND		0.1	327	<.1	333	<.1	329	0.1	385	0.1	359	0.1	357				
	1984	ND		0.1	317	<.1	321	<.1	310	0.1	377	<.1	343	<.1	342				
	1985	ND		0.1	346	0.1	329	<.1	347	0.1	353	0.1	346	0.1	344				
	1986	<.1	294	<.1	358	<.1	316	<.1	357	<.1	394	0.1	354	0.1	354				
Atlantic croaker	1976	ND		0.2	298	0.2	332	0.0	285	1.0	277	0.0	333	0.8	306				
	1977	ND		0.3	268	0.1	226	<.1	285	1.0	264	0.4	297	0.2	271				
	1978	ND		0.1	247	<.1	250	<.1	247	1.0	300	0.2	281	0.1	270				
	1979	ND		0.2	259	<.1	263	0.0	263	0.1	265	0.1	298	0.2	279				
	1980	ND		0.1	268	0.1	254	<.1	240	0.1	273	0.2	312	0.1	287				
	1981	ND		0.1	264	0.1	265	<.1	289	0.1	266	0.3	302	0.1	282				
	1982	ND		0.2	268	0.1	265	<.1	261	0.1	285	0.2	313	0.4	308				
	1983	ND		0.3	268	0.1	277	<.1	286	0.2	265	0.2	289	0.4	314				
	1984	ND		0.1	265	<.1	298	<.1	260	<.1	262	<.1	305	<.1	285				
	1985	ND		0.2	273	<.1	184	<.1	115	0.1	265	0.2	267	0.1	266				
	1986	0.1	259	0.4	271	0.1	250	<.1	292	0.3	255	0.2	297	0.1	272				

Table 2. (Cont'd.).

Species	Year	Bay System																							
		Sabine Lake			Galveston			East			Corpus Christi			Upper Laguna Madre			Lower Laguna Madre			Coastwide					
		No./h	Length	No./h Length	No./h	Length	No./h	Length	Matagorda	San Antonio	Aransas	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length		
Sand seatrout	1976	ND	<.1	195	ND	0.0	0.0	0.0	0.0	0.0	0.0	0.3	266	0.0	0.0	0.0	0.0	0.0	<.1	244	<.1	244	0.0	0.0	
	1977	ND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1979	ND	<.1	217	0.0	<.1	209	0.0	0.0	0.0	0.0	<.1	284	<.1	333	<.1	245	<.1	312	<.1	231	<.1	312	<.1	318
	1980	ND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1	312	0.0	0.0	0.0	0.0	0.0	<.1	312	<.1	312	0.0	0.0	0.0
	1981	ND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1982	ND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1983	ND	<.1	302	0.0	<.1	270	0.0	0.0	0.0	0.0	<.1	286	<.1	390	<.1	295	<.1	291	<.1	274	<.1	291	0.0	0.0
	1984	ND	<.1	200	0.0	<.1	171	0.0	0.0	0.0	0.0	<.1	337	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1985	ND	<.1	356	0.0	<.1	180	0.0	0.0	0.0	0.0	<.1	247	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	<.1	<.1	209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1	231	0.0	0.0	0.0	0.0	0.0	<.1	215	<.1	215	0.0	0.0	
Gafftop-sail catfish	1976	ND	0.4	504	ND	0.5	494	0.5	2.3	456	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1977	ND	0.2	480	0.4	506	0.9	556	3.3	538	3.1	506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1978	ND	0.3	539	0.1	546	1.1	546	1.8	496	0.1	545	<.1	436	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1979	ND	0.3	520	0.5	534	0.4	553	0.4	534	0.5	544	0.2	551	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1980	ND	0.2	511	0.2	566	0.5	554	1.2	547	0.4	552	0.1	598	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1981	ND	0.2	514	0.3	480	0.8	541	0.5	537	1.4	541	0.1	521	<.1	577	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1982	ND	0.4	513	0.2	496	0.4	544	1.4	540	0.9	542	0.3	531	<.1	534	<.1	371	<.1	535	<.1	535	0.0	0.0	
	1983	ND	0.2	544	<.1	475	0.3	537	2.0	530	0.9	537	0.1	536	<.1	575	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1984	ND	0.2	527	<.1	479	1.0	529	1.1	530	0.6	550	0.2	532	<.1	472	<.1	211	<.1	533	<.1	533	0.0	0.0	
	1985	ND	0.3	532	<.1	467	0.4	517	0.8	537	0.1	557	0.1	507	<.1	413	<.1	388	<.1	530	<.1	530	0.0	0.0	
1986	0.2	0.4	515	0.3	468	0.3	533	0.3	0.5	554	0.4	529	0.4	534	<.1	374	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Gulf menhaden	1976	ND	0.2	261	ND	0.1	250	0.1	0.1	275	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1977	ND	2.5	251	0.6	299	0.1	245	0.1	233	0.3	247	2.6	255	<.1	282	<.1	229	<.1	261	<.1	261	0.0	0.0	
	1978	ND	0.3	242	<.1	194	0.2	245	1.2	258	0.0	0.0	0.2	263	1.2	264	<.1	246	<.1	257	<.1	257	0.0	0.0	
	1979	ND	1.2	251	0.0	0.0	0.1	251	<.1	132	<.1	241	0.1	255	0.2	260	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1980	ND	<.1	193	0.0	0.0	<.1	252	0.1	287	<.1	271	<.1	257	0.6	269	<.1	253	<.1	265	<.1	265	0.0	0.0	
	1981	ND	0.4	260	0.0	0.0	0.2	255	0.1	252	0.1	254	0.1	243	0.1	246	0.1	243	0.1	255	0.1	255	0.0	0.0	
	1982	ND	0.4	254	0.0	0.0	<.1	248	0.3	252	0.1	249	<.1	250	0.4	268	<.1	303	0.2	257	0.2	257	0.0	0.0	
	1983	ND	0.8	252	0.0	0.0	0.2	251	0.2	243	0.1	244	0.1	248	0.1	304	0.1	252	0.3	252	0.2	252	0.0	0.0	
	1984	ND	0.5	254	0.0	0.0	0.1	251	0.2	279	0.2	246	0.1	250	<.1	284	<.1	265	0.2	257	0.2	257	0.0	0.0	
	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	0.2	252	0.0	0.0	
1986	0.1	1.3	251	<.1	226	0.1	242	0.1	244	0.2	245	0.4	258	<.1	252	<.1	253	0.4	251	<.1	251	0.0	0.0		

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	
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		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	312	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	1.1	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	1.8	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		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	
	Pinfish	1976	ND		0.0		ND		0.0		0.0		0.0		0.0		0.0		0.0		0.0	222
		1977	ND		0.0		0.0		0.0		<.1		0.0		0.0		0.0		0.0		<.1	187
		1978	ND		0.0		0.0		0.0		<.1	196	<.1		0.0		204		<.1		165	256
		1979	ND		0.0		0.0		0.0		<.1		<.1	226	<.1	305			0.0		0.0	0.0
		1980	ND		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.0
1981		ND		0.0		0.0		0.0		<.1	246	0.0		0.0		190		<.1		200	214	
1982		ND		0.0		<.1	230	<.1	217	<.1	216	<.1	230	<.1	233	0.1	208	<.1	219	<.1	219	
1983		ND		0.0		0.0		0.0		0.0		<.1	160	<.1	249	<.1	209	<.1	199	<.1	217	
1984		ND		<.1	210	0.0		0.0		<.1		<.1	125	<.1	162	<.1	310	0.0	0.0	0.0	244	
1985		ND		0.0		0.0		0.0		0.0		<.1	237	<.1	178	<.1	178	<.1	165	0.0	179	
1986		0.0		0.0		0.0		<.1	150	0.0	0.0	<.1	174	<.1	168	<.1	252	0.0	0.0	<.1	196	
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		0.2	214	0.1	227	0.1	234	0.1	228
		1979	ND		0.0		<.1	259	<.1	250	0.0	239	<.1	245	<.1	233	0.1	238	0.1	252	<.1	246
		1980	ND		0.0		<.1	233	0.0		<.1		0.0		0.1	247	0.1	234	<.1	234	<.1	239
	1981	ND		<.1		<.1	230	<.1	240	0.0		<.1	268	<.1	222	0.1	223	<.1	241	<.1	235	
	1982	ND		<.1		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	233	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	<.1	234	<.1	235	<.1	238	<.1	240	<.1	220	0.1	220	0.1	240	<.1	228	
	1986	<.1		<.1	233	<.1	249	<.1	240	<.1	232	<.1	224	0.1	216	0.1	238	0.1	230	<.1	232	

Table 2. (Cont'd.).

Species	Year	Bay System																				
		Sabine Lake			Galveston			East			Corpus Christi			Upper Laguna Madre			Lower Laguna Madre			Coastwide		
		No./h	Length	No./h Length	No./h	Length	No./h Length	Matagorda	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	Coastwide	Coastwide	Coastwide	Coastwide	Coastwide	
Striped mullet	1976	ND		0.1	385	ND	0.1	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	254	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	344	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	353	
	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		
Other finfishes	1976	ND		0.3	619	ND	1.6	360	0.4	619	0.9	486	2.4	351	0.1		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	296	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	365	0.2	531	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	423	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		
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	429	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	3.7	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	3.8	408	5.2	445	4.1	479	3.6	452	5.0	368	3.6	350	5.2	384	5.1	404	
1986	4.9	433	9.3	477	5.4	381	5.0	425	3.5	422	3.2	418	5.7	371	2.9	387	5.2	425	5.3	398		

Table 3. Annual mean catch rate (No./ha) and mean total lengths (mm) of fishes caught with bag seines by bay system during 1977-1986. Blank indicates no measurement taken; ND = no data.

Species	Year	Bay system																										
		Sabine Lake			Galveston			East			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	No./ha	Length	No./ha	Length	No./ha	Length	
Red drum	1977 ^a	ND		21	35	ND		7	51	87	52	14	44	1	41	0		1	39	19	47							
	1978	ND		3	67	ND		4	43	13	51	4	94	3	67	11	59	17	52	7	58							
	1979	ND		17	62	ND		6	92	11	67	5	92	18	85	27	66	15	64	14	70							
	1980	ND		59	74	ND		8	68	28	50	5	88	16	75	5	46	45	56	26	52							
	1981	ND		26	52	ND		9	86	29	53	31	39	40	46	5	55	16	89	24	76							
	1982	ND		53	62	ND		9	76	19	102	26	103	21	62	1	55	43	92	21 ^b	78							
	1983	ND		47	67	11 ^b		4	70	7	99	12	98	7	88	3	59	4	73	6	69							
	1984	ND		13	66	6		2	105	12	56	4	100	4	80	2	52	4	61	18	9	87						
	1985	ND		3	131	10		7	96	7	115	19	83	9	67	1	61	18	69	9	87							
	1986	19	66	8	87	8		2	78	6	105	1	117	4	98	3	84	22	94	7	90							
Spotted seatrout	1977 ^a	ND		35	87	ND		37	84	47	76	1	99	7	84	16	83	5	85	23	83							
	1978	ND		35	52	ND		6	86	11	69	8	51	5	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	22	71	11	74	11	79	3	56	<1	60	10	73							
	1981	ND		16	85	ND		7	110	9	68	13	70	12	65	4	73	6	84	10	80							
	1982	ND		37	82	ND		7	99	20	62	15	76	4	75	5	78	3	76	15	79							
	1983	ND		26	84	4 ^b		7	73	8	72	15	81	4	79	5	101	5	80	11 ^b	82							
	1984	ND		6	71	2		3	77	1	83	10	73	1	54	1	88	5	98	4	77							
	1985	ND		5	80	24		11	87	4	64	24	61	3	50	9	70	2	78	9	71							
	1986	2	67	2	85	17		5	71	5	78	12	60	4	67	1	72	2	58	5	68							
Black drum	1977 ^a	ND		0		ND		10	147	7	179	1	142	1	150	0		0		3	157							
	1978	ND		36	95	ND		9	110	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	141	2	97							
	1981	ND		12	122	ND		11	111	2	141	5	141	1	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		3	118	1	132	2	145	2	108	2	107	1	141	7 ^b	98							
	1984	ND		8	108	1		3	156	0		1	140	0		1	82	<1	91	2	115							
	1985	ND		4	141	3		3	113	1	122	1	124	1	67	6	86	0		2	112							
	1986	2	141	2	107	5		0		1	149	0		<1	96	?	68	1	145	1	110							

Table 3. (Cont'd.)

Species	Year	Bay system														Coastwide								
		Sabine Lake		Galveston		East		Matagorda		San Antonio		Aransas		Corpus Christi			Upper Laguna Madre		Lower Laguna Madre					
		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		
Sheeps-head	1977 ^a	ND	0	0	0	1	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	128	
	1978	ND	0	0	0	<1	86	1	68	1	54	1	59	1	122	2	61	1	70	2	61	1	70	
	1979	ND	15	66	ND	1	93	6	63	3	56	13	41	0	0	1	50	1	50	1	50	6	61	
	1980	ND	1	114	ND	1	163	1	41	1	51	0	0	0	0	1	60	1	60	1	60	1	86	
	1981	ND	1	158	ND	2	68	0	0	1	95	1	41	0	0	1	91	1	91	1	91	1	101	
	1982	ND	1	174	ND	0	0	3	67	<1	62	<1	50	0	0	0	0	0	0	0	0	0	1	89
	1983	ND	1	23	<1 ^b	93	<1	50	1	102	<1	67	<1	99	0	0	3	52	1	52	1	52	1	51
	1984	ND	0	0	<1	178	<1	90	1	30	<1	36	<1	30	0	0	0	0	0	0	0	0	<1	43
1985	ND	2	20	1	58	1	157	3	39	1	35	0	0	0	2	57	1	57	2	57	1	44		
1986	0	<1	114	<1	32	<1	203	1	48	1	50	0	0	0	1	73	1	73	1	73	<1	80		
Southern flounder	1977 ^a	ND	0	0	0	1	171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	171	
	1978	ND	9	40	ND	<1	43	4	37	<1	98	1	44	1	128	1	46	1	46	1	46	3	42	
	1979	ND	1	84	ND	<1	135	2	85	0	0	1	123	2	46	1	38	1	38	1	38	1	71	
	1980	ND	10	54	ND	1	38	2	55	0	0	3	64	1	43	5	38	4	38	4	38	4	51	
	1981	ND	5	57	ND	7	79	2	53	2	90	1	67	1	66	11	55	4	55	4	55	4	64	
	1982	ND	9	67	ND	3	82	6	56	18	37	2	62	1	53	13	39	8	39	8	39	8	51	
	1983	ND	10	46	1 ^b	75	2	54	3	58	6	39	1	33	0	45	3	45	3	45	3	45	4	46
	1984	ND	2	83	2	69	1	78	1	67	3	62	3	45	1	85	1	64	2	64	2	64	2	69
1985	ND	4	58	5	78	3	112	1	43	7	55	5	55	<1	71	2	67	2	67	2	67	3	65	
1986	2	83	4	83	6	70	19	66	2	78	4	54	2	79	12	44	4	44	12	44	6	63		
Atlantic croaker	1977 ^a	ND	21	96	ND	0	0	0	0	0	1	36	11	50	1	181	4	83	4	83	4	83	6	88
	1978	ND	320	61	ND	247	59	100	100	37	73	1	30	11	86	29	38	29	38	29	38	122	61	
	1979	ND	463	52	ND	109	74	52	48	7	76	25	65	3	92	221	44	44	221	44	44	162	53	
	1980	ND	1085	55	ND	82	69	17	89	16	56	24	49	1	40	198	42	42	198	42	42	291	54	
	1981	ND	528	57	ND	24	94	26	73	26	42	20	55	1	112	32	47	32	47	32	47	136	58	
	1982	ND	1812	61	ND	165	74	69	67	142	61	32	54	0	0	49	53	49	53	49	53	471	62	
	1983	ND	888	55	56 ^b	79	237	66	80	63	62	6	61	3	86	50	51	50	51	50	51	255 ^b	58	
	1984	ND	807	59	210	64	483	60	25	83	152	68	61	5	102	133	59	133	59	133	59	402	60	
1985	ND	242	65	121	63	299	72	13	88	46	78	4	77	11	87	87	42	87	11	87	42	123		
1986	126	149	77	198	68	2138	52	17	99	12	72	12	78	<1	89	62	57	62	<1	89	62	364		

Table 3. (Cont'd.)

Species	Year	Bay system																							
		Sabine Lake						East						Corpus Christi						Coastwide					
		No./ha	Length	Galveston	Matagorda	Matagorda	San Antonio	Aransas	Christi	Upper Laguna	Lower Laguna	Madre	Madre	Upper Laguna	Lower Laguna	Madre	Madre	Upper Laguna	Lower Laguna	Madre	Madre				
Sand seatrout	1977 ^a	ND		0	ND	10	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	61	
	1978	ND		13	ND	3	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	58	
	1979	ND		35	ND	14	70	2	75	33	1	77	0	0	0	0	0	0	0	0	0	0	10	61	
	1980	ND		8	ND	7	82	<1	64	89	0	0	0	0	0	0	0	0	0	0	0	0	3	69	
	1981	ND		21	ND	2	72	0	0	0	0	1	76	<1	78	<1	65	13	58	5	61	5	61		
	1982	ND		47	ND	12	67	<1	35	76	<1	73	0	0	0	0	0	0	0	0	0	0	15 ^b	57	
	1983	ND		47	ND	31	65	<1	47	70	2	53	0	0	0	0	0	0	0	0	0	0	15	54	
	1984	ND		49	7	66	22	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	65	
	1985	ND		11	8	59	13	71	0	67	1	82	0	0	0	0	0	0	0	0	0	0	5	65	
	1986	6	71	9	4	60	9	64	0	0	0	59	0	0	0	0	0	0	0	0	0	0	4	57	
Gulf menhaden	1977 ^a	ND		22	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	76	
	1978	ND		533	ND	4087	47	169	64	3310	44	41	44	42	71	29	1268	44	44	29	1268	44	44		
	1979	ND		122	ND	867	43	0	0	817	38	38	6	37	1	31	312	41	31	31	312	41	41		
	1980	ND		14717	ND	115	50	24	52	48	30	7	4	4	54	31	3343	46	4	40	31	3343	46		
	1981	ND		196	ND	348	51	52	41	355	48	9	41	42	11	38	246	46	42	42	11	38	246		
	1982	ND		4732	ND	820	48	1034	37	137	33	1068	9	31	130	32	1456	47	9	31	130	32	1456		
	1983	ND		4971	ND	44	16	67	42	16	34	630	33	30	4	44	1314 ^b	62	2	30	4	44	1314 ^b		
	1984	ND		1822	ND	48	1260	45	1093	42	848	39	553	29	69	56	923	44	129	49	69	56	923		
	1985	ND		486	ND	43	3766	50	875	45	48	39	122	62	20	49	812	48	62	44	20	49	812		
	1986	3049	49	3049	38	1502	37	612	37	27	34	11	46	44	12	36	2339	48	36	44	12	36	2339		
Hard- head catfish	1977 ^a	ND		1	ND	1	108	17	91	0	0	0	0	6	105	1	114	4	6	105	1	114	4	106	
	1978	ND		12	ND	21	107	11	104	2	88	1	72	6	88	3	84	9	6	88	3	84	9	105	
	1979	ND		43	ND	16	116	5	148	1	119	8	154	5	116	10	120	16	5	116	10	120	16	125	
	1980	ND		42	ND	13	122	1	107	1	134	2	88	1	83	1	87	12	1	83	1	87	12	118	
	1981	ND		14	ND	34	126	10	99	1	100	4	105	5	76	4	95	12	4	76	4	95	12	116	
	1982	ND		32	ND	47	121	17	96	8	85	3	108	1	84	3	106	19	1	84	3	106	19	108	
	1983	ND		70	ND	48	119	7	116	4	96	1	103	2	90	1	125	25 ^b	2	90	1	125	25 ^b	114	
	1984	ND		32	ND	38	88	16	94	24	97	7	82	5	72	14	96	22	5	72	14	96	22	92	
	1985	ND		36	ND	29	115	2	112	19	101	2	85	9	74	3	134	17	9	74	3	134	17	97	
	1986	17	122	23	38	112	127	30	103	15	96	<1	104	<1	62	11	94	21	<1	62	11	94	21	116	

Table 3. (Cont'd.)

Species	Year	Bay system												Coastwide No./ha Length							
		Sabine Lake			Galveston			East		Corpus Christi			Upper Laguna Madre			Lower Laguna Madre					
		No./ha	Length	No./ha Length	No./ha	Length	No./ha Length	Matagorda	Matagorda	San Antonio	Aransas	Christi	Madre		Length	Madre	Length	Madre	Length		
Pinfish	1977 ^a	ND		0		0	30	114	27	105	22	105	105	93	167	102	13	101	39	103	
	1978	ND		116	55	ND	24	61	77	75	54	74	74	135	41	84	7	64	66	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	335	58	167	66	250	61	17	88	153	59	148	56	
	1981	ND		270	55	ND	68	69	131	70	107	85	132	67	40	84	132	75	151	66	
	1982	ND		144	67	ND	34	66	603	55	448	67	265	62	100	73	349	57	262	61	
	1983	ND		138	65	61 ^b	79	116	80	514	49	648	68	542	25	82	215	67	282 ^b	64	
	1984	ND		245	59	180	64	107	71	173	66	457	62	214	54	147	79	120	212	64	
	1985	ND		362	55	401	65	211	71	399	55	274	66	234	67	133	68	261	66	281	62
	1986	64	74	185	61	676	64	117	58	161	66	702	59	304	58	245	62	329	63	288	61
Spot	1977 ^a	ND		59	100	ND	22	119	0	48	2	170	12	100	0	1	125	18	105		
	1978	ND		407	52	ND	187	49	361	48	80	55	314	47	227	59	149	52	254	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	101	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	471	52	623	54	225	60	180	58	340	66	350	58	
	1983	ND		459	57	50 ^b	96	58	171	47	353	56	137	55	58	60	519	63	273 ^b	58	
	1984	ND		236	53	96	61	146	59	249	46	644	56	564	58	494	66	948	67	431	60
	1985	ND		179	62	158	59	217	59	276	44	254	65	227	55	80	77	169	54	197	58
	1986	118	65	136	68	319	57	825	51	102	58	261	51	160	60	114	55	614	54	315	54
Striped mullet	1977 ^a	ND		32	140	ND	121	106	103	118	27	132	179	156	14	158	62	108	70	127	
	1978	ND		66	120	ND	26	124	126	66	68	103	123	75	53	94	105	81	75	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	15	107	41	121	61	102	49	88	57	70	95	85	61	100	
	1981	ND		229	57	ND	41	92	249	84	205	81	80	85	31	63	161	98	152	76	
	1982	ND		128	67	ND	553	118	183	77	177	85	29	110	24	86	42	94	174	98	
	1983	ND		85	94	62 ^b	26	136	57	64	111	106	37	60	15	99	46	84	58 ^b	94	
	1984	ND		51	95	34	34	110	34	73	99	56	142	52	154	68	265	96	106	77	
	1985	ND		75	110	199	89	92	23	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	23	57	41	66	35	92	

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	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length					
Other finfishes	1977 ^a	ND		800	51	ND		220	72	3025	45	1315	62	2510	54	1575	60	743	53	1304	53													
	1978	ND		2562	52	ND		391	82	866	67	1471	58	950	64	869	56	522	50	1221	57													
	1979	ND		1814	60	ND		451	69	2745	55	1999	63	1277	64	1157	67	1657	79	1591	64													
	1980	ND		2090	68	ND		289	79	1139	69	994	65	1031	63	1939	62	382	62	1182	66													
	1981	ND		1682	67	ND		384	82	1136	56	1179	64	1657	63	856	62	637	63	1094	65													
	1982	ND		1546	68	ND		278	88	1950	54	3419	53	946	65	1034	52	393	57	1391	59													
	1983	ND		1959	74	471 ^b		485	80	1254	54	2851	58	828	59	621	59	449	61	1267 ^b	65													
	1984	ND		1329	61	591		524	77	1061	61	1247	61	704	59	841	52	340	65	894	62													
	1985	ND		585	70	737		498	82	613	60	1727	56	759	50	1152	50	775	58	847	60													
	1986	287		345	76	535		72	1225	69	874	51	1256	54	280	61	1128	45	563	62	769	59												
Total finfishes	1977 ^a	ND		991	59	ND		461	88	3312	51	1384	64	2788	61	1780	67	831	59	1493	60													
	1978	ND		4103	53	ND		5006	67	1671	65	5038	64	1538	66	1282	62	908	54	3056	61													
	1979	ND		3149	60	ND		1635	71	3375	57	3096	60	2191	70	1355	69	2368	76	2518	64													
	1980	ND		18543	86	ND		632	77	1868	66	1407	68	1490	67	2116	63	1070	59	5240	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	4384	56	5021	57	2596	66	1355	58	1342	61	4188	65													
	1983	ND		8725	71	2078 ^b		1872	80	2159	55	4082	63	2197	59	736	64	1338	68	3533 ^b	68													
	1984	ND		4601	59	1617		2625	62	2703	59	3489	62	3353	52	1782	60	1907	71	3020	60													
	1985	ND		1995	63	1921		5107	83	2218	65	2514	60	1389	57	1534	55	1458	60	2379	68													
	1986	3776		3947	71	3329		14493	73	1849	60	2313	57	841	62	1554	51	1670	61	4155	69													

^aData for October - December only.^bEast Matagorda Bay data are only for February-September 1983. Coastwide values do not include East Matagorda Bay data.

Figure 1. Sabine Lake.

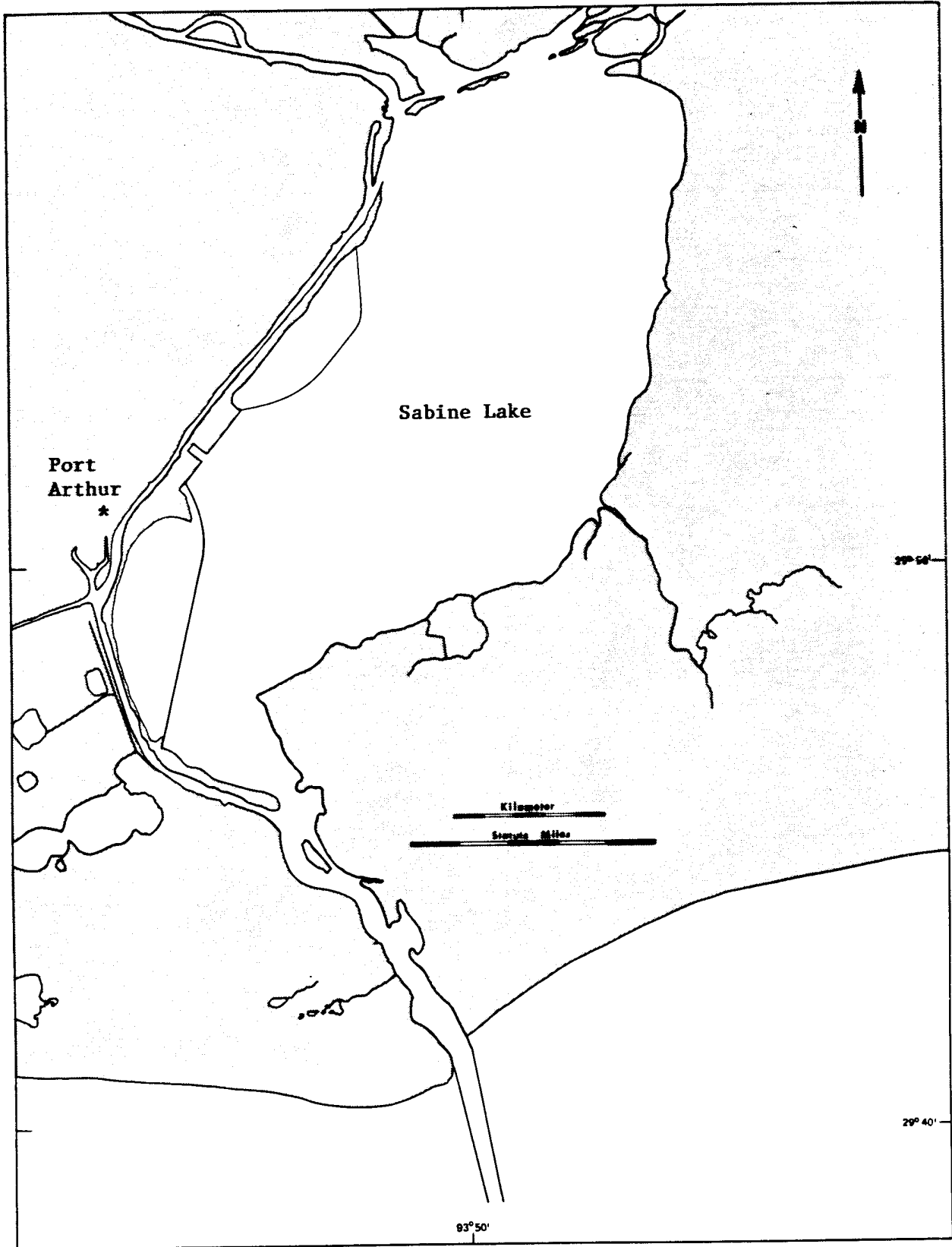
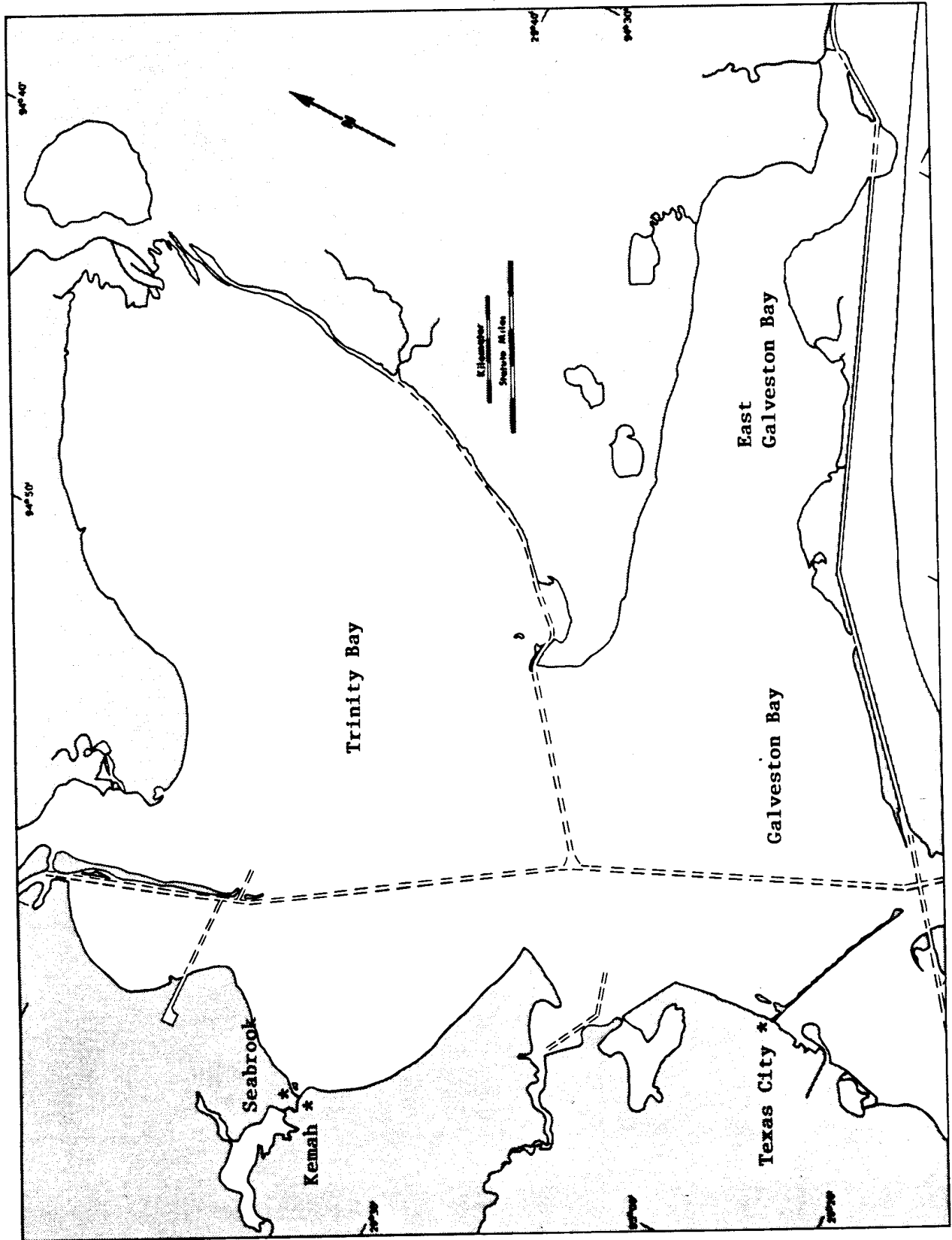


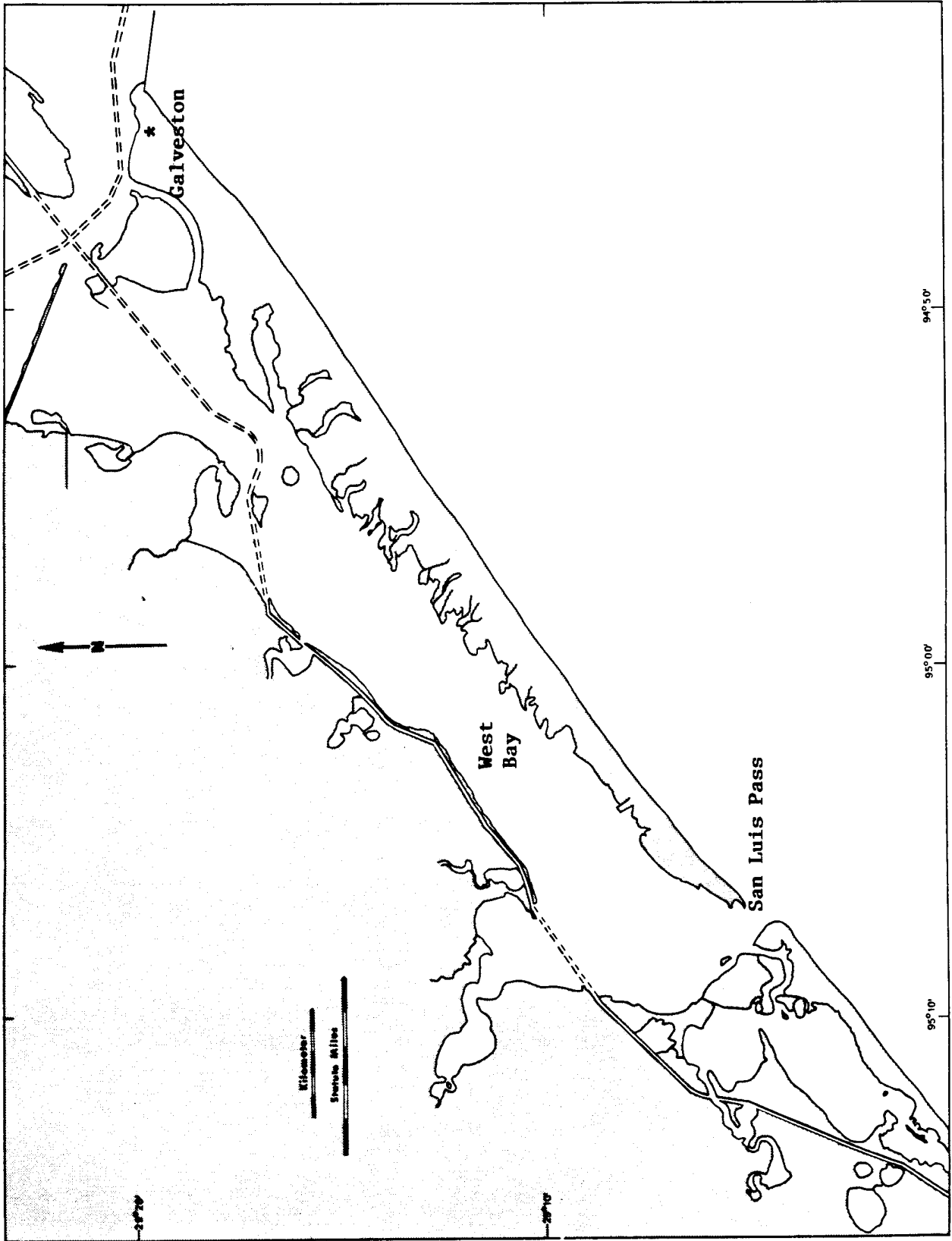
Figure 2. Galveston Bay System.

(A) Trinity, upper Galveston and East Bays

(B) West Bay



(A)



(B)

Figure 3. East Matagorda Bay System.

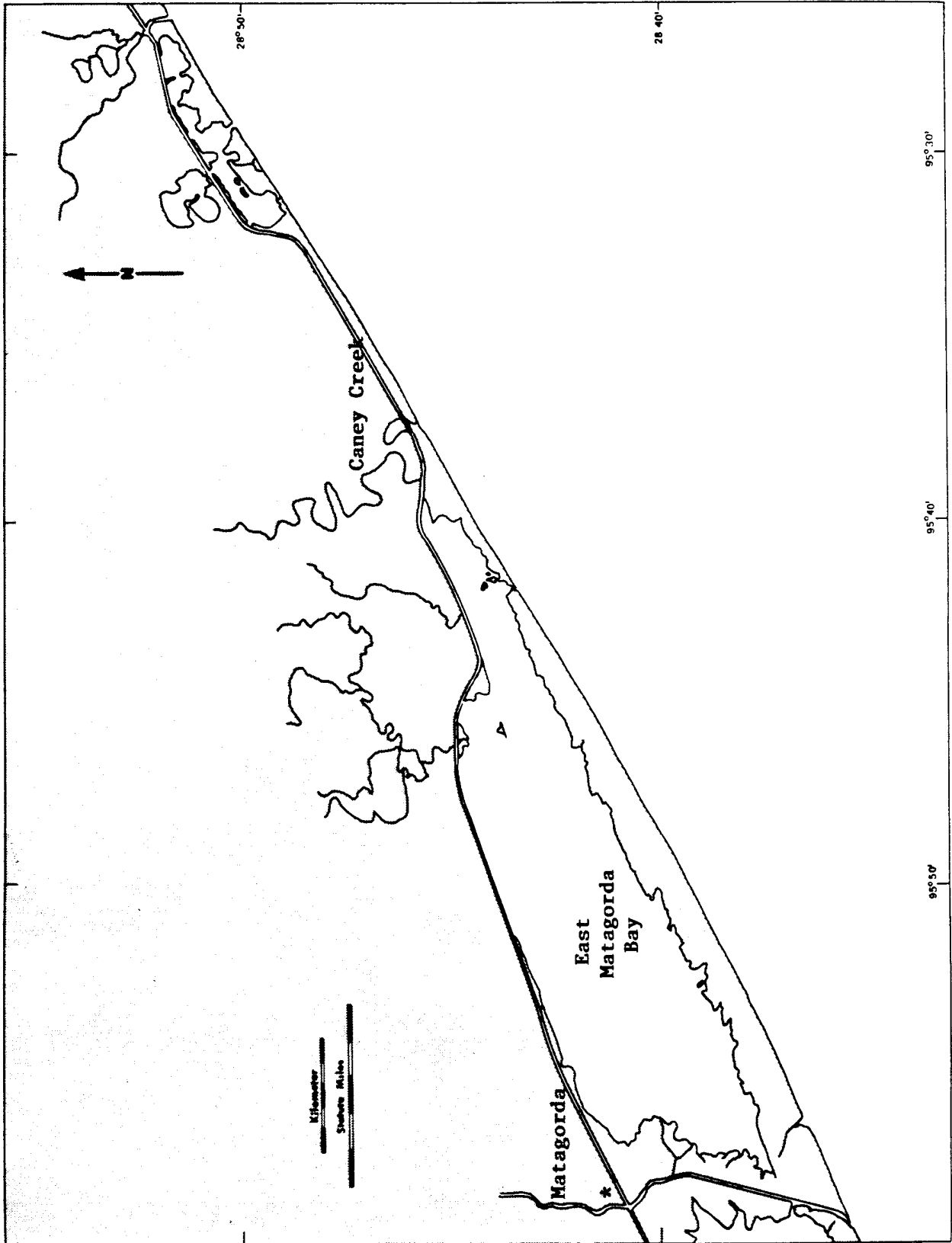
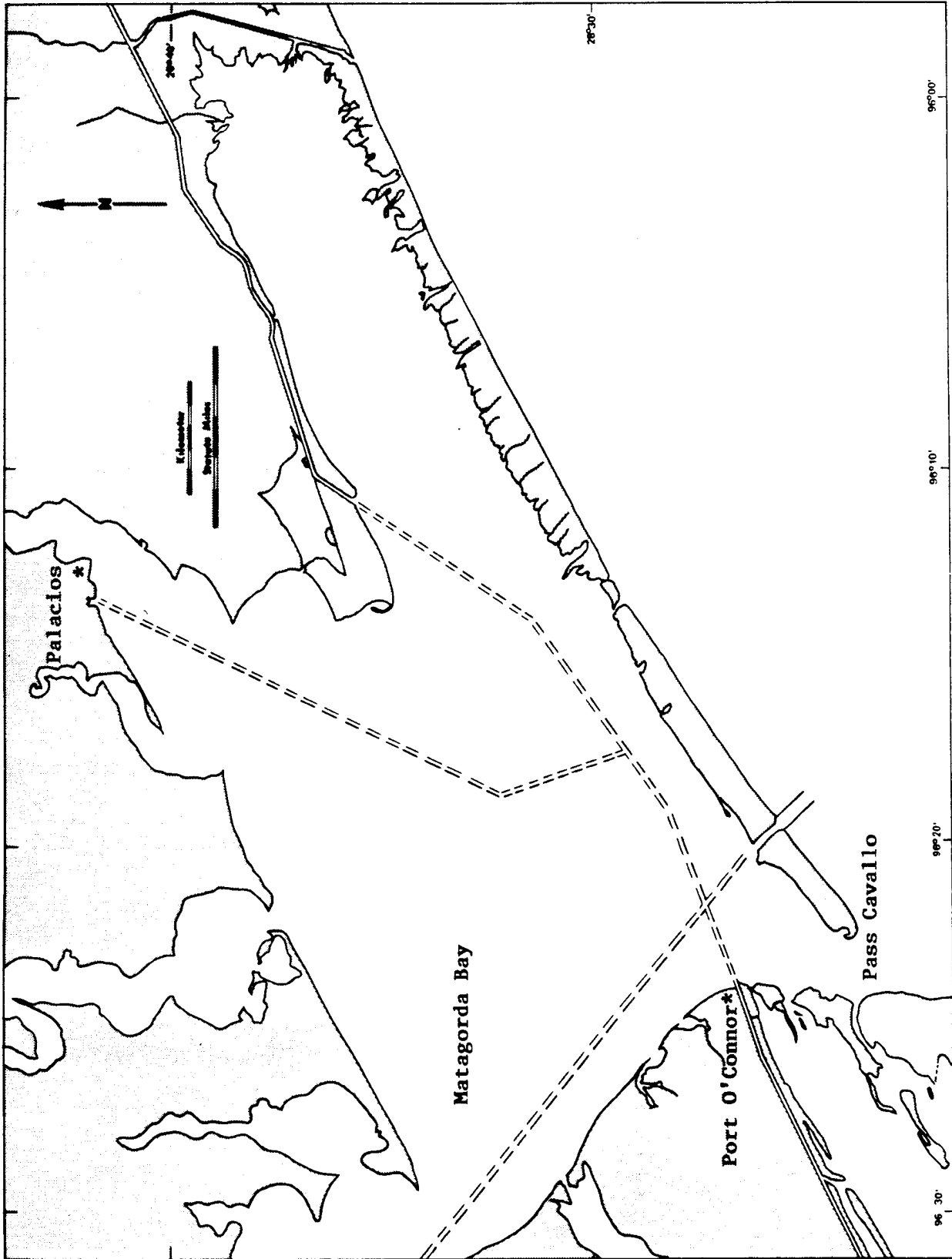


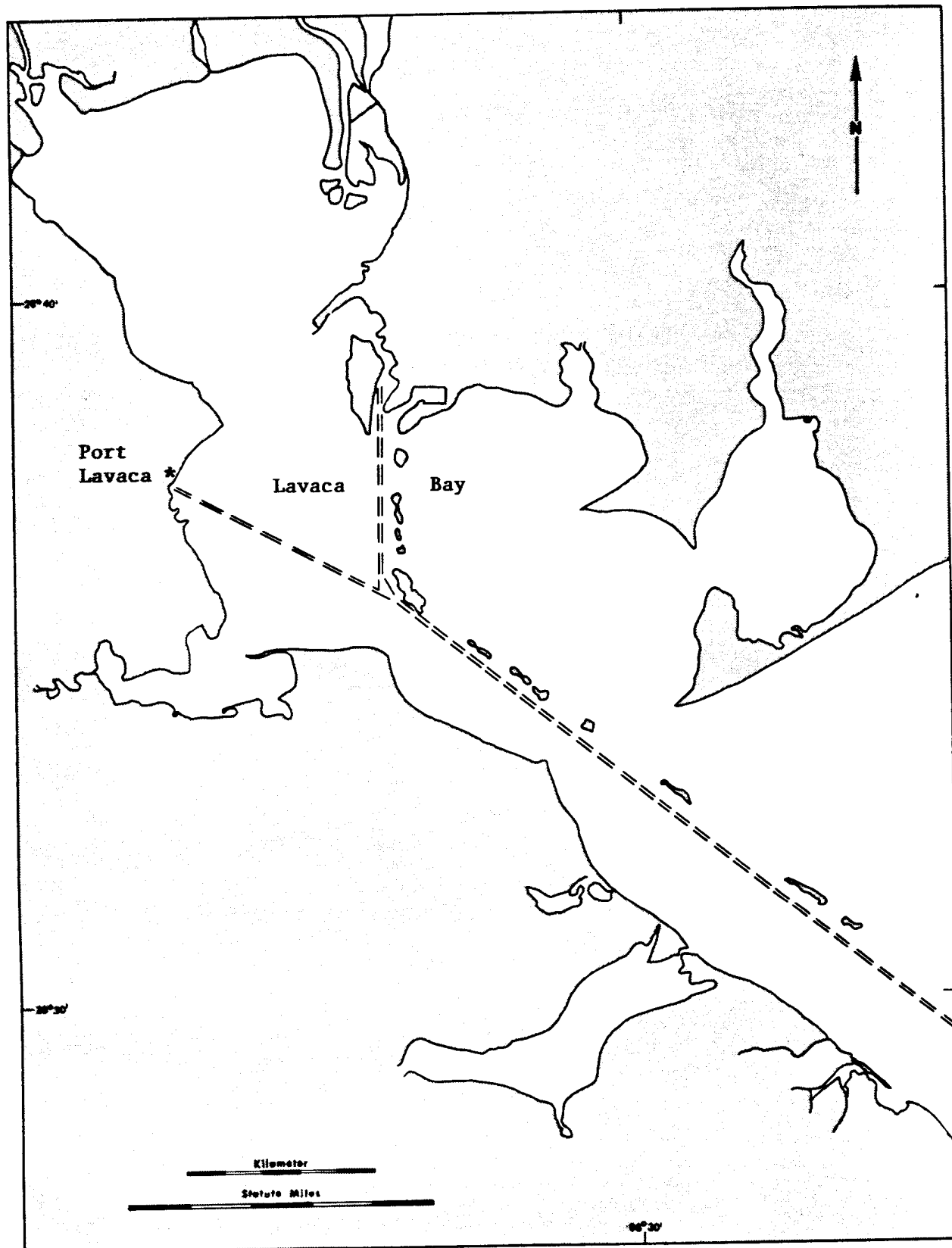
Figure 4. Matagorda Bay System.

(A) Matagorda Bay

(B) Lavaca Bay



(A)



(B)

Figure 5. San Antonio Bay System.

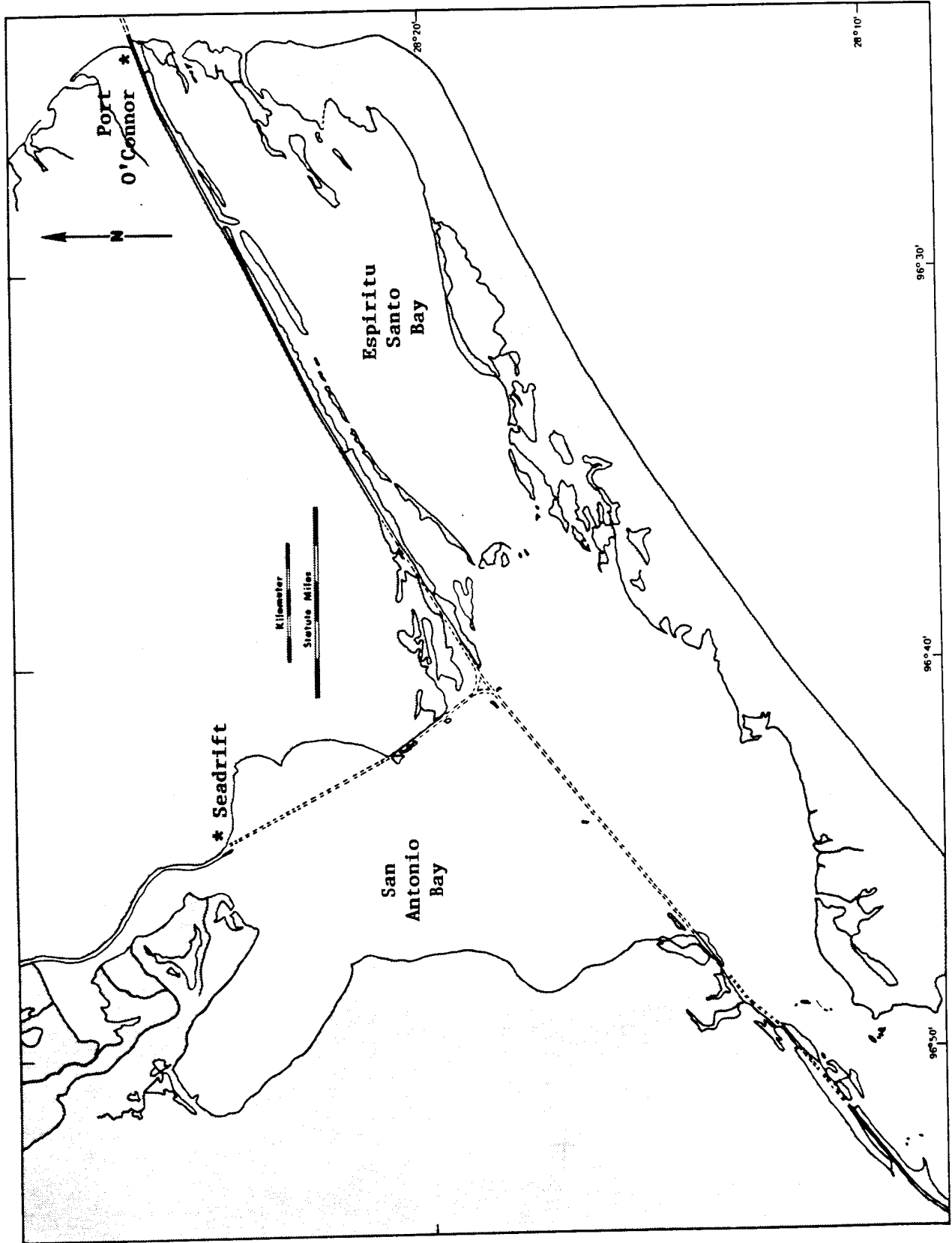


Figure 6. Aransas Bay System.

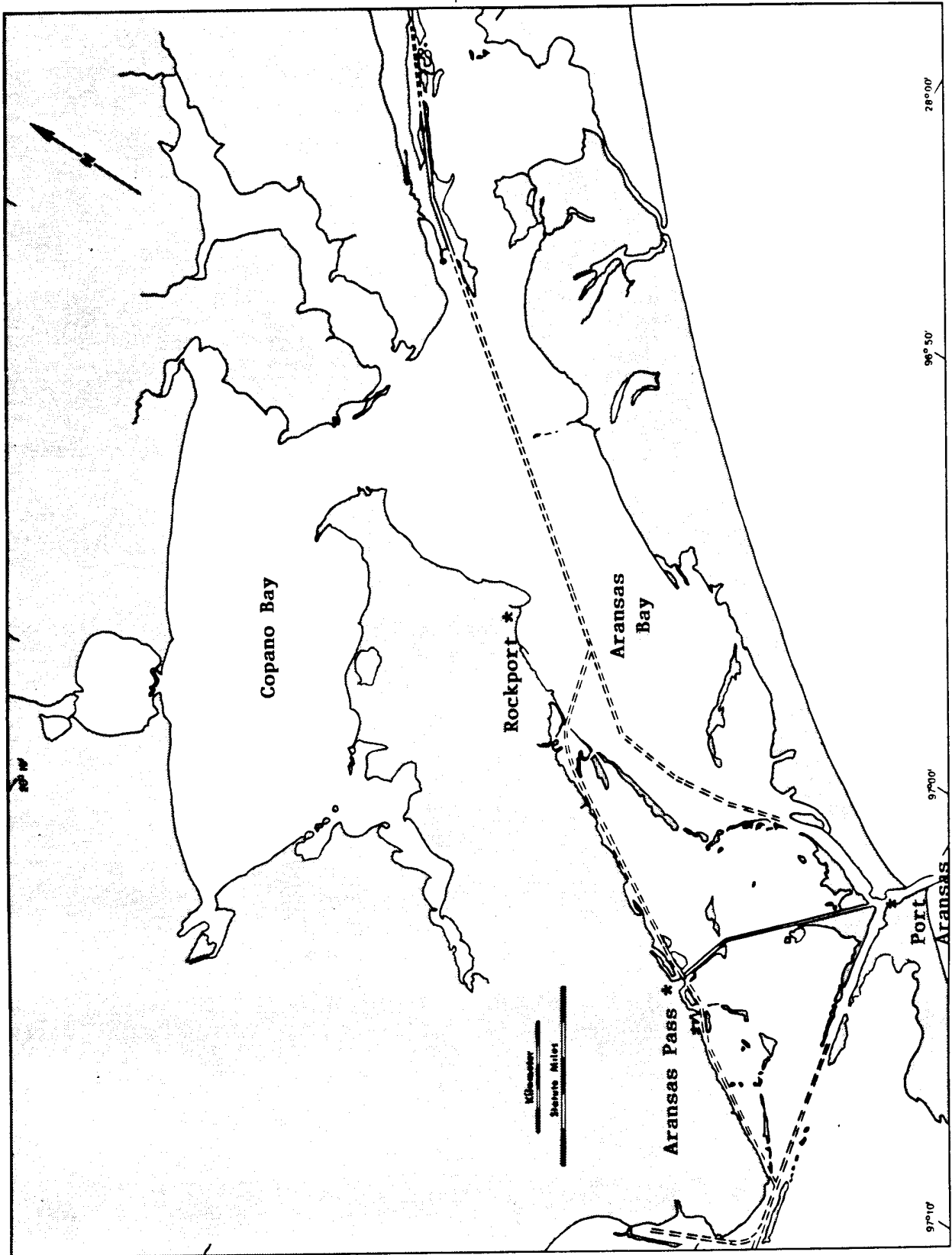


Figure 7. Corpus Christi Bay System.

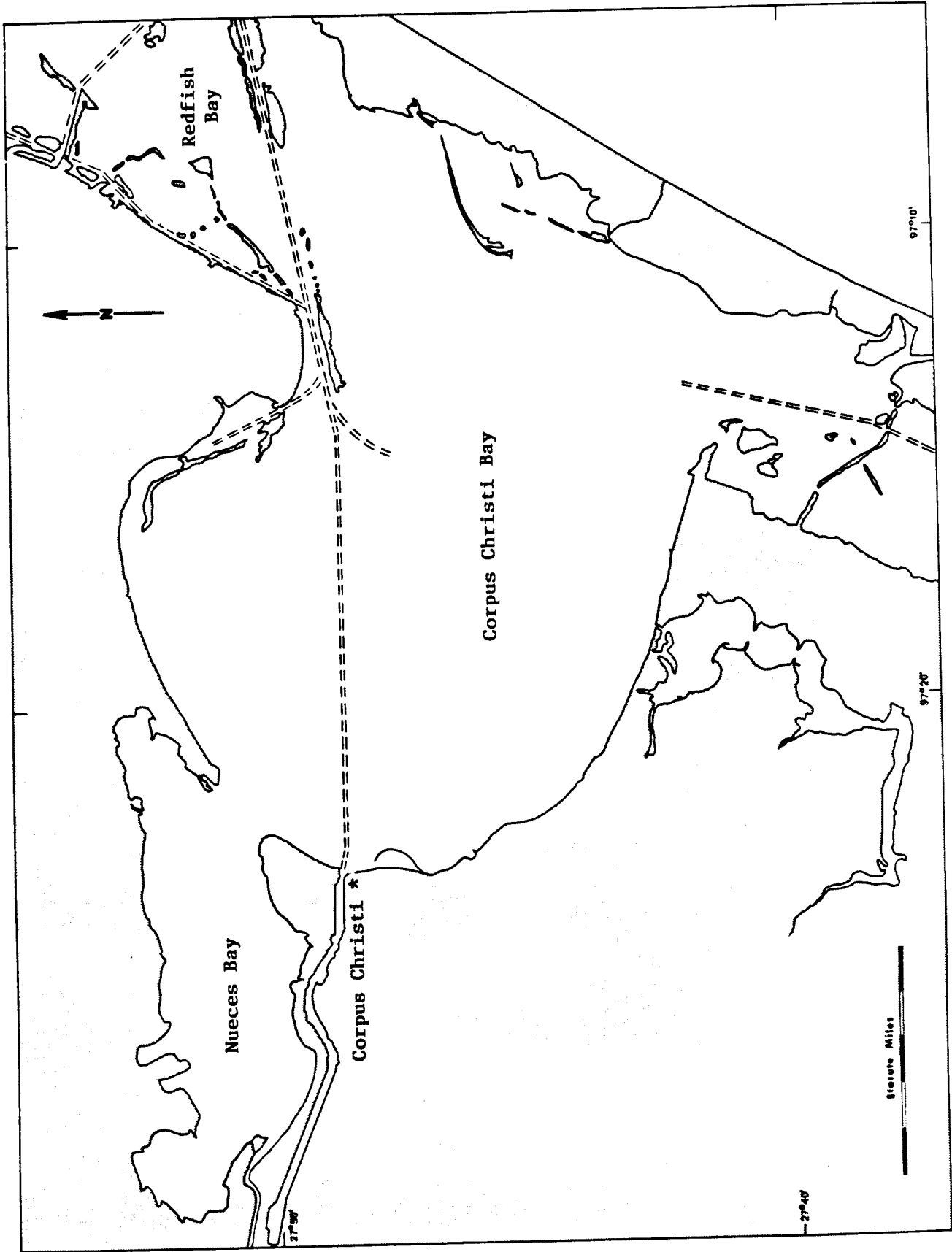


Figure 8. Upper Laguna Madre System.

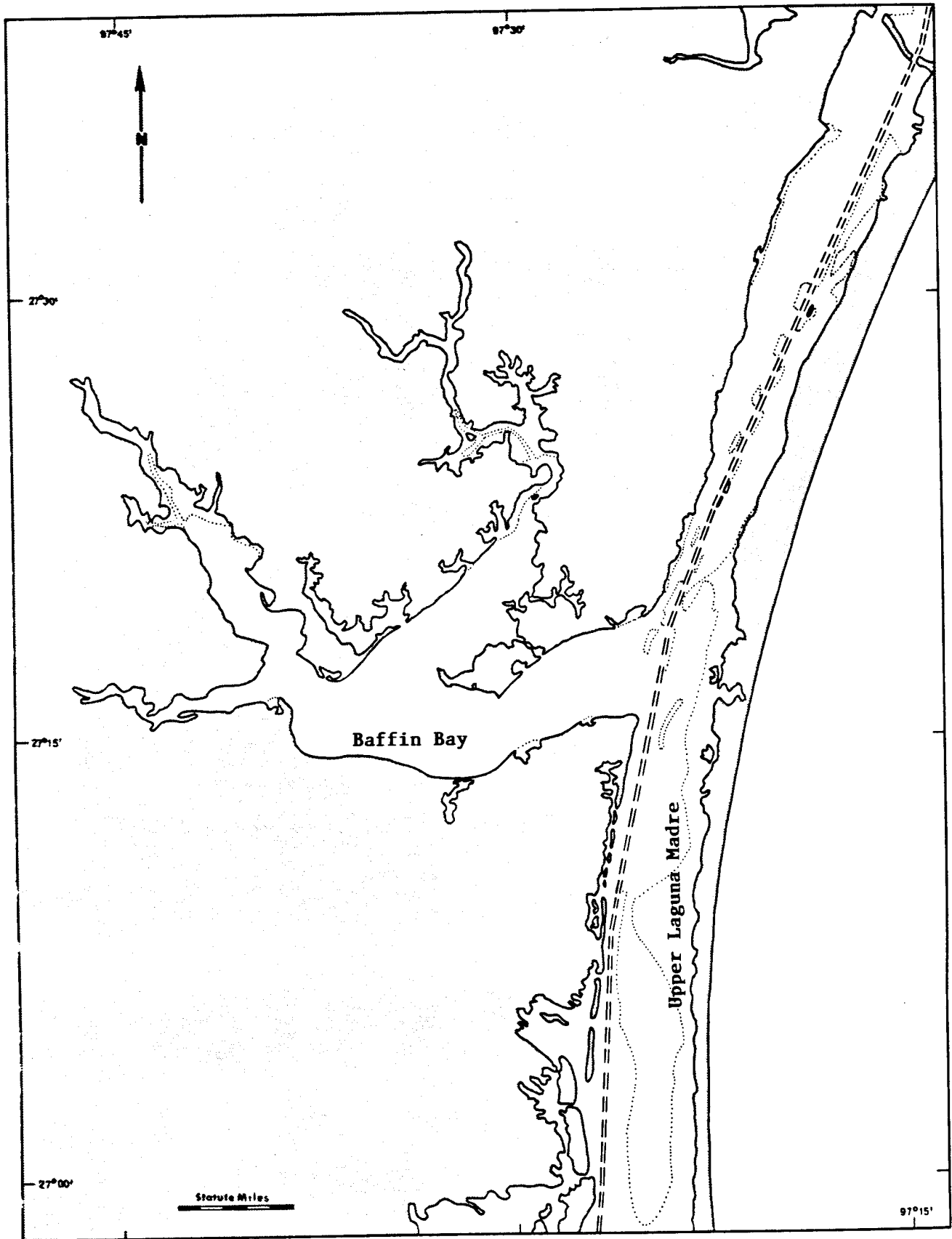
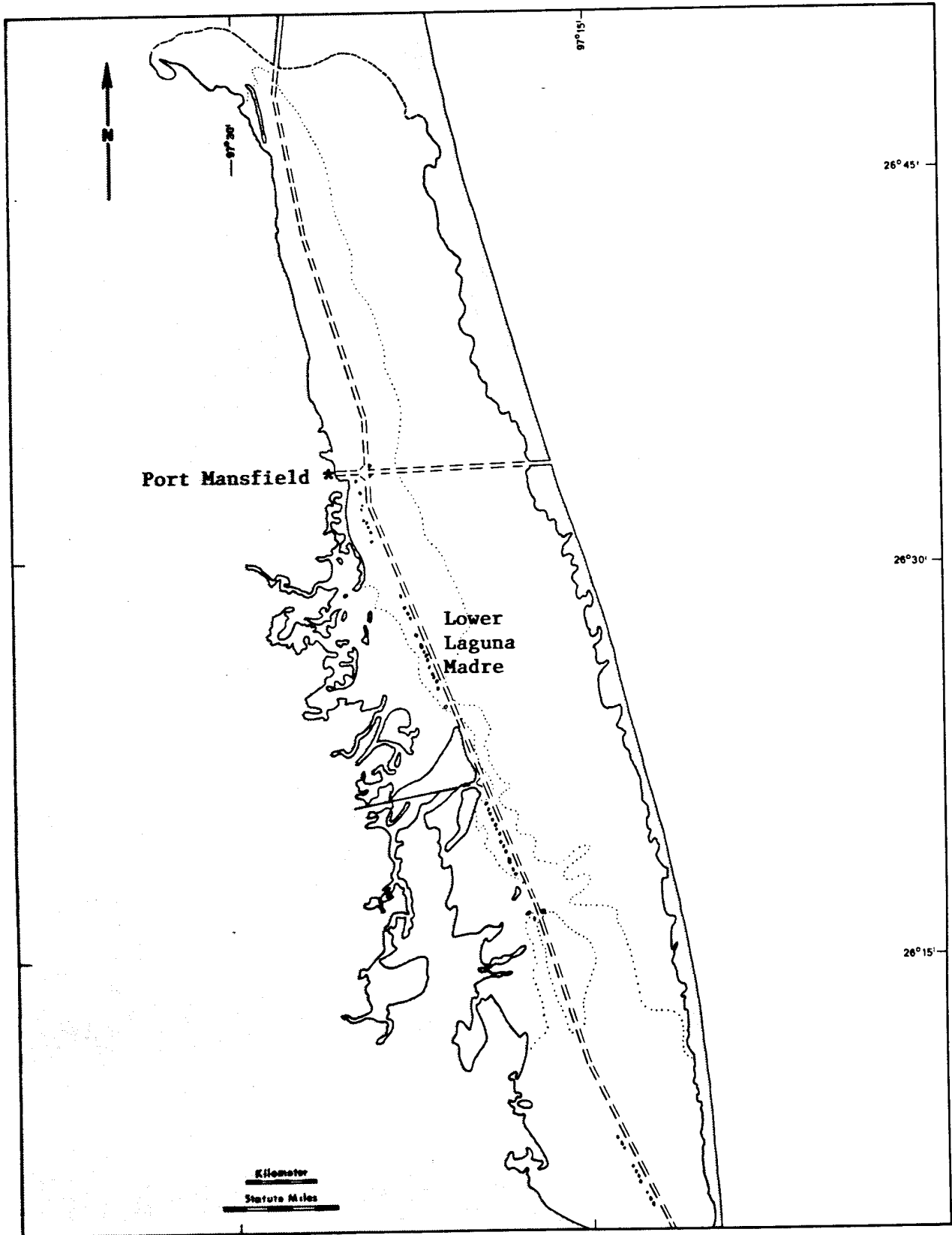


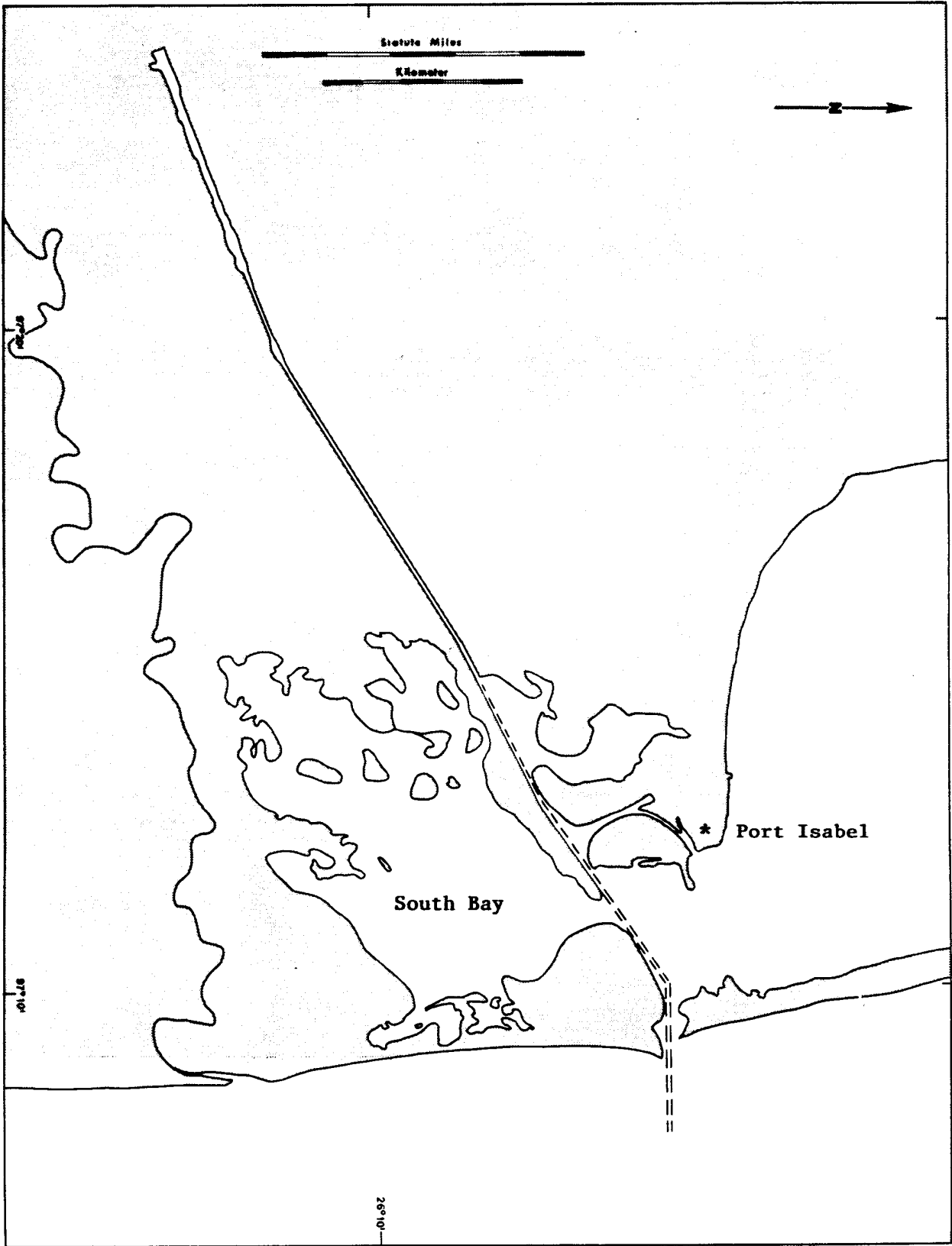
Figure 9. Lower Laguna Madre System.

(A) Lower Laguna Madre

(B) South Bay



(A)



(B)

Appendix A. Mean gill net catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes by season and bay system.

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

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	
Red drum	1986	0.2	368		0.1	464		0.1	594		0.1	660	
Spotted seatrout	1986	0.1	372		<.1	490		<.1	420		0.0		
Black drum	1986	0.1	245		0.1	332		0.1	386		0.1	475	
Sheepshead	1986	<.1	258		<.1	400		<.1	302		0.0		
Southern flounder	1986	<.1	238		<.1	286		<.1	321		<.1	354	
Atlantic croaker	1986	0.1	280		<.1	334		0.0			<.1	255	
Sand seatrout	1986	<.1	308		<.1	249		<.1	275		0.0		
Gafftopsail catfish	1986	<.1	359		<.1	453		<.1	508		<.1	491	
Gulf menhaden	1986	0.1	237		<.1	294		<.1	213		<.1	227	
Hardhead catfish	1986	0.1	331		<.1	320		<.1	374		<.1	370	
Pinfish	1986	<.1	51		0.0			0.0			0.0		

Table A.1. (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
Spot	1986	0.1	233	0.0				0.0	
Striped mullet	1986	<.1	322	<.1	359	0.0		0.0	
Other finfishes	1986	0.4	333	0.2	422	0.1	924	0.1	1023
Total finfishes	1986	1.3	314	0.6	392	0.4	506	0.2	641

Table A.2. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Galveston Bay system during fall 1975-1986. Blank indicates no measurement taken.

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	
Red drum	1975	0.7	373	0.4	422	<.1	582	<.1	610	
	1976	<.1	401	0.4	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	537	<.1	633	
	1979	0.7	368	0.1	446	<.1	587	<.1	623	
	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	382	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	
	Spotted seatrout	1975	0.2	376	<.1	560	<.1	620	<.1	380
		1976	0.2	391	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	533	<.1	612	<.1	596	
1984		0.2	398	0.1	528	<.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	

Table A.2. (Cont'd.).

Species	Year	Mesh size																		
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		7.6-cm		10.2-cm		12.7-cm		15.2-cm				
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length			
Black drum	1975	0.2	219	0.2	338	<.1	716	<.1	0.1	581	0.0	219	0.0	338	<.1	716	0.1	581		
	1976	0.1	219	0.1	278	0.1	408	0.1	0.1	453	0.0	219	0.1	278	0.1	408	0.1	453		
	1977	<.1	210	0.1	318	0.2	382	0.2	0.1	500	0.0	210	0.1	318	0.2	382	0.1	500		
	1978	0.0		0.1	317	0.2	398	0.2	0.1	444	0.0		0.1	317	0.2	398	0.1	444		
	1979	<.1	239	<.1	313	<.1	438	<.1	0.1	489	<.1	239	<.1	313	<.1	438	0.1	489		
	1980	<.1	304	0.3	328	0.2	426	0.2	0.2	472	<.1	304	0.3	328	0.2	426	0.2	472		
	1981	<.1	287	0.1	356	0.1	440	0.1	0.1	481	<.1	287	0.1	356	0.1	440	0.1	481		
	1982	<.1	260	0.2	329	0.2	391	0.2	0.2	469	<.1	260	0.2	329	0.2	391	0.2	469		
	1983	0.1	294	0.1	334	<.1	408	<.1	0.1	462	0.1	294	0.1	334	<.1	408	0.1	462		
	1984	0.1	245	0.1	335	0.2	426	0.2	0.2	483	0.1	245	0.1	335	0.2	426	0.2	483		
	1985	0.1	234	0.2	328	0.3	409	0.3	0.3	484	0.1	234	0.2	328	0.3	409	0.2	484		
	1986	0.1	226	0.1	343	0.3	396	0.3	0.3	471	0.1	226	0.1	343	0.3	396	0.2	471		
	Sheepshead	1975	0.0		0.0		257	<.1	257	<.1	432	0.0		0.0		257	<.1	257	<.1	432
		1976	0.0		<.1	308	<.1	309	<.1	0.1	386	0.0		<.1	308	<.1	309	<.1	386	
1977		0.0		0.0		354	<.1	354	<.1	340	0.0		0.0		354	<.1	354	<.1	340	
1978		<.1	383	<.1	238	<.1	287	<.1	0.1	346	<.1	383	<.1	238	<.1	287	<.1	346		
1979		0.0		<.1	234	<.1	337	<.1	0.1	427	0.0		<.1	234	<.1	337	<.1	427		
1980		<.1	150	<.1	254	<.1	324	<.1	0.1	339	<.1	150	<.1	254	<.1	324	<.1	339		
1981		<.1	338	<.1	301	<.1	340	<.1	0.1	360	<.1	338	<.1	301	<.1	340	<.1	360		
1982		<.1	319	<.1	218	<.1	314	<.1	0.1	359	<.1	319	<.1	218	<.1	314	<.1	359		
1983		<.1	366	<.1	218	<.1	338	<.1	0.1	368	<.1	366	<.1	218	<.1	338	<.1	368		
1984		<.1	243	0.0	354	<.1	358	<.1	0.0	390	<.1	243	0.0	354	<.1	358	<.1	390		
1985	0.0	398	<.1	254	<.1	367	<.1	<.1	401	0.0	398	<.1	254	<.1	367	<.1	401			
1986	<.1		<.1		<.1	339	<.1	<.1	399	<.1		<.1		<.1	339	<.1	399			

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	No./h	Length	No./h	Length	
Sand seatrout	1975	0.1	319	<.1	339	0.0		0.0		0.1		0.1	307	
	1976	0.1	298	<.1	296	<.1		<.1		<.1		<.1	285	
	1977	<.1	355	<.1	287	<.1		<.1		<.1		<.1	317	
	1978	0.0		0.0		0.0		0.0		<.1		<.1	303	
	1979	0.0		0.0		<.1		<.1		<.1		<.1	266	
	1980	<.1	300	<.1	299	<.1		<.1		<.1		<.1	302	
	1981	<.1	281	<.1	223	<.1		<.1		<.1		<.1	322	
	1982	<.1	321	<.1	267	<.1		<.1		<.1		<.1	279	
	1983	<.1	323	<.1	285	<.1		<.1		<.1		<.1	289	
	1984	<.1	324	<.1	277	<.1		<.1		<.1		<.1	259	
	1985	<.1	296	<.1	271	<.1		<.1		<.1		<.1	286	
	1986	<.1	334	<.1	296	<.1		<.1		<.1		<.1	302	
	Gafftopsail catfish	1975	0.0		0.0		0.0		0.0		0.0		0.0	465
		1976	0.0		0.0		0.0		<.1		<.1		<.1	540
1977		0.0		0.0		0.0		<.1		<.1		<.1		
1978		0.0		0.0		0.0		0.0		0.0		0.0		
1979		0.0		0.0		0.0		0.0		0.0		0.0		
1980		0.0		0.0		0.0		<.1		<.1		0.1	562	
1981		<.1	347	<.1	454	<.1		<.1		<.1		<.1	547	
1982		<.1	310	<.1	419	<.1		<.1		<.1		<.1	440	
1983		0.0		<.1	468	<.1		<.1		<.1		<.1	506	
1984		0.0		<.1	447	<.1		<.1		<.1		<.1	549	
1985		0.0		<.1	456	<.1		<.1		<.1		<.1	568	
1986		0.0		<.1	434	<.1		<.1		<.1		<.1	558	
														498
														444
													527	
													514	
													508	
													498	
													515	
													525	
													551	

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	1975	0.2	260	0.2	284	0.1	279	0.1	280	
	1976	1.7	250	0.4	228	0.3	227	0.4	221	
	1977	2.8	246	0.2	255	<.1	241	<.1	213	
	1978	0.5	245	<.1	284	<.1	249	<.1	252	
	1979	0.1	261	<.1	213	<.1	245	<.1	241	
	1980	0.1	255	0.1	258	0.1	246	<.1	253	
	1981	0.6	260	<.1	249	<.1	257	<.1	263	
	1982	0.5	251	<.1	245	<.1	250	<.1	242	
	1983	1.3	255	0.1	262	0.1	260	0.1	261	
	1984	0.8	255	<.1	274	<.1	258	<.1	252	
	1985	1.2	248	0.2	255	0.1	248	0.1	255	
	1986	1.4	243	0.1	263	<.1	226	<.1	236	
	Hardhead catfish	1975	0.7	312	0.1	323	<.1	277	0.0	
		1976	0.3	320	0.3	382	0.1	367	<.1	365
		1977	0.3	322	0.2	365	<.1	352	<.1	
		1978	1.0	322	0.4	380	<.1	428	<.1	424
1979		0.9	330	0.6	372	0.1	360	<.1	341	
1980		0.4	318	0.2	363	<.1	369	<.1	348	
1981		0.7	327	0.2	372	<.1	345	<.1	342	
1982		1.3	330	0.2	381	<.1	345	<.1	347	
1983		1.0	332	0.2	381	<.1	359	<.1	315	
1984		1.2	324	0.3	354	0.1	311	<.1	313	
1985		1.0	319	0.2	364	<.1	298	<.1	307	
1986	0.7	320	0.2	388	<.1	354	<.1	361		

Table A.2. (Cont'd.).

Species	Year	Mesh size														
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm				
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length			
Pinfish	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1978	<.1	238	0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1980	<.1	157	0.0		0.0		0.0		0.0		0.0		0.0		
	1981	<.1	212	<.1	269	0.0		0.0		0.0		0.0		0.0		
	1982	<.1	207	0.0		0.0		0.0		0.0		0.0		0.0		
	1983	<.1	192	<.1		0.0		0.0		0.0		0.0		0.0		
	1984	<.1	153	0.0		0.0		0.0		0.0		0.0		0.0		
	1985	<.1	192	0.0		0.0		0.0		0.0		0.0		0.0		
	1986	<.1	195	<.1	229	0.0		0.0		0.0		0.0		0.0		
	Spot	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
		1976	0.3	236	<.1	230	0.0		0.0		0.0		0.0		0.0	
		1977	0.2	234	0.0		0.0		0.0		0.0		0.0		0.0	
		1978	0.1	226	0.0		0.0		0.0		0.0		0.0		0.0	
1979		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1980		0.1	235	0.0		0.0		0.0		0.0		0.0		0.0		
1981		0.1	240	0.0		0.0		0.0		0.0		0.0		0.0		
1982		0.3	239	<.1	252	0.0		0.0		0.0		0.0		0.0		
1983		0.2	242	0.0		0.0		0.0		0.0		0.0		0.0		
1984		0.1	238	<.1	264	0.0		0.0		0.0		0.0		0.0		
1985	0.3	233	0.0		0.0		0.0		0.0		0.0		0.0			
1986	0.2	238	<.1	175	0.0		0.0		0.0		0.0		0.0			

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	No./h	Length	No./h	Length	
Striped mullet	1975	0.4	332	0.0		0.0		0.0		0.0		0.0		
	1976	0.2	310	0.1	396	<.1	419	<.1		0.0		0.0		
	1977	0.1	320	<.1	414	0.0		0.0		0.0		0.0		
	1978	0.1	317	<.1	401	0.1	535	0.1		0.0		0.0		
	1979	<.1	334	<.1	451	0.0		0.0		0.0		0.0		
	1980	0.1	342	<.1	409	<.1	315	<.1		<.1		<.1	576	
	1981	<.1	346	<.1	432	<.1	451	<.1		<.1		<.1	600	
	1982	0.2	329	<.1	426	<.1	565	<.1		<.1		<.1	530	
	1983	0.1	339	<.1	434	<.1	505	<.1		<.1		<.1		
	1984	0.3	337	0.1	433	<.1	516	<.1		0.0		0.0		
	1985	0.1	327	<.1	405	<.1		0.0		0.0		0.0		
	1986	0.1	324	<.1	427	<.1	515	<.1		<.1		<.1	607	
	Other finfishes	1975	0.5	323	0.7	375	0.2	969	0.2		0.1		0.1	1009
		1976	0.4	273	0.5	376	0.1	557	0.1		0.1		0.1	752
1977		0.1	510	0.2	423	0.1	453	0.1		0.1		0.1	982	
1978		0.1	284	0.4	321	<.1	349	<.1		<.1		<.1	225	
1979		0.3	356	0.3	366	<.1	822	<.1		<.1		<.1	1324	
1980		0.2	299	0.2	377	<.1	578	<.1		<.1		<.1	445	
1981		0.4	314	0.5	345	<.1	670	<.1		<.1		<.1	1022	
1982		0.4	308	0.6	368	0.1	453	0.1		<.1		<.1	746	
1983		0.5	330	0.6	432	0.1	489	0.1		<.1		<.1	852	
1984		0.5	340	0.6	402	0.1	533	0.1		<.1		<.1	807	
1985		0.4	294	0.5	371	<.1	661	<.1		<.1		<.1	938	
1986		0.2	309	0.5	360	<.1	522	<.1		<.1		<.1	792	

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	1975	2.9	324	1.7	371	0.4	681	0.4	565				
	1976	3.4	272	1.9	356	1.2	418	1.0	423				
	1977	4.0	285	1.2	369	0.6	417	0.4	583				
	1978	2.1	291	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	465				
	1981	2.5	313	1.1	379	0.4	480	0.2	546				
	1982	3.7	314	1.5	372	0.6	431	0.3	466				
	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				

Table A.3. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the East Matagorda Bay system during fall 1975-1986. Blank indicates no measurement taken; ND = no data.

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	No./h	Length	No./h	Length
Red drum	1975	ND		ND		ND		ND		ND		ND	
	1976	0.2	326	0.4	473	0.6	532	0.1	581	0.1	581	0.1	581
	1977	0.7	348	0.1	442	0.1	551	<.1	662	<.1	662	<.1	662
	1978	0.5	352	0.1	390	0.1	479	0.0		0.0		0.0	
	1979	0.4	373	0.2	419	0.1	498	<.1	538	<.1	538	<.1	538
	1980	0.3	353	0.1	448	0.2	584	0.1	593	0.1	593	0.1	593
	1981	0.5	378	<.1	408	<.1	473	<.1	637	<.1	637	<.1	637
	1982	0.7	358	0.1	543	0.1	539	<.1	560	<.1	560	<.1	560
	1983	0.6	351	0.1	456	0.1	567	<.1	647	<.1	647	<.1	647
	1984	0.2	376	0.1	479	0.4	576	0.4	653	0.4	653	0.4	653
	1985	0.7	350	0.2	423	0.2	525	0.2	618	0.2	618	0.2	618
	1986	0.4	336	0.1	501	0.3	580	0.3	610	0.1	610	0.1	610
	Spotted seatrout	1975	ND		ND		ND		ND		ND		ND
1976		0.4	376	0.5	461	0.2	582	0.0		0.0		0.0	
1977		0.1	382	0.1	534	<.1	555	<.1	536	<.1	536	<.1	536
1978		0.2	366	0.1	459	<.1	543	0.0		0.0		0.0	
1979		0.1	374	<.1	506	0.0		<.1		<.1		<.1	
1980		0.1	413	<.1	455	<.1	400	<.1	366	<.1	366	<.1	366
1981		0.6	397	0.1	488	<.1	586	0.0		0.0		0.0	
1982		0.2	418	0.1	511	<.1	601	<.1	548	<.1	548	<.1	548
1983		0.5	407	<.1	543	<.1	558	<.1	488	<.1	488	<.1	488
1984		0.2	426	0.1	508	<.1	455	<.1		<.1		<.1	
1985		0.2	374	0.1	509	<.1	584	<.1	584	<.1	584	<.1	584
1986		0.3	395	0.1	504	<.1	594	<.1	406	<.1	406	<.1	406

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	
Black drum	1975	ND		ND		ND		ND		
	1976	0.2	221	0.3	288	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	250	0.2	303	0.2	417	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	
	Sheepshead	1975	ND		ND		ND		ND	
		1976	0.0		0.0		0.1	282	0.0	370
1977		0.0		0.1	261	0.2	304	0.1	362	
1978		0.0		<.1	259	0.1	286	0.1	387	
1979		<.1	350	<.1	377	0.2	340	<.1	360	
1980		0.0		<.1	238	<.1	315	<.1	382	
1981		0.0		0.1	224	<.1	293	<.1	368	
1982		0.0		<.1	300	0.1	303	0.1	373	
1983		0.0		0.1	278	0.2	347	0.2	389	
1984		<.1	416	<.1	407	0.1	371	0.2	396	
1985		0.0		<.1	342	0.1	372	0.1	396	
1986		0.0		<.1	251	<.1	280	<.1	366	

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	No./h	Length	No./h	Length
Sand seatrout	1975	ND		ND		ND		ND		ND		ND	
	1976	0.1	301	<.1	261	0.0		0.0		<.1		<.1	303
	1977	0.0		0.0		0.0		0.0		0.0		0.0	
	1978	0.0		<.1		0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0		0.0	
	1981	0.0		0.0		<.1		<.1		<.1		<.1	268
	1982	<.1	225	0.0		<.1		<.1	223	<.1	249	<.1	260
	1983	0.0		<.1	206	<.1		<.1	242	<.1	242	<.1	244
	1984	<.1	312	0.0		<.1		<.1	316	0.0		0.0	
	1985	0.0		<.1	255	<.1		0.0		0.0		0.0	
	1986	0.0		<.1	227	<.1		0.0		<.1		<.1	263
	Gafftopsail catfish	1975	ND		ND		ND		ND		ND		ND
1976		0.0		0.0		0.0		0.0		0.0		0.0	
1977		0.0		0.0		0.0		0.0		0.0		0.0	
1978		0.0		0.0		0.0		0.0		0.0		0.0	
1979		0.0		<.1	435	0.1		0.1	547	<.1		<.1	551
1980		0.0		0.0		0.0		0.0		0.0		0.0	
1981		0.0		0.0		0.0		0.0		0.0		0.0	
1982		0.0		0.0		0.0		0.0		0.0		0.0	
1983		<.1	396	0.1	464	<.1		<.1	495	<.1	466	<.1	509
1984		<.1	420	<.1	461	<.1		<.1	485	<.1	466	<.1	535
1985	0.0		<.1	449	<.1		<.1	485	<.1	485	<.1	549	
1986	0.0		<.1	412	<.1		<.1	510	<.1	510	<.1	536	

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	No./h	Length	No./h	Length
Gulf menhaden	1975	ND		ND		ND		ND		ND		ND	
	1976	<.1		0.0		0.0		0.0		0.0		0.0	
	1977	0.0		<.1	281	<.1		<.1	237	<.1		0.0	
	1978	0.4	241	0.1	275	0.0		0.0		0.0		0.0	
	1979	<.1	240	0.0		<.1		<.1	220	<.1		<.1	212
	1980	<.1		0.0		0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0		0.0		0.0	
	1982	0.0		<.1	310	<.1		<.1		<.1		0.0	
	1983	0.1	245	<.1	276	0.0		0.0		0.0		0.0	
	1984	0.1	248	<.1	264	<.1		<.1	271	<.1		0.0	
	1985	<.1	233	0.0		0.0		0.0		0.0		0.0	
	1986	0.1	235	<.1	276	<.1		<.1	151	<.1		0.0	
	Hardhead catfish	1975	ND		ND		ND		ND		ND		ND
1976		<.1	322	0.0		0.0		0.0		0.0		0.0	
1977		0.2	313	0.1	353	<.1		<.1		<.1		0.0	
1978		0.1	308	0.0		0.0		<.1	375	<.1		0.0	
1979		0.1	327	0.1	356	0.0		0.0	260	0.0		0.0	
1980		0.3	319	0.1	367	0.0		0.0		0.0		0.0	382
1981		0.2	322-	<.1	300	<.1		<.1	350	<.1		0.0	
1982		0.2	336	0.1	332	<.1		<.1	330	<.1		<.1	331
1983		0.2	330	0.1	358	<.1		<.1	261	<.1		<.1	340
1984		0.8	316	0.2	361	<.1		<.1	306	<.1		0.0	
1985		0.2	315	0.2	353	<.1		<.1	308	<.1		<.1	304
1986		0.3	326	0.2	370	<.1		<.1	316	<.1		<.1	313

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	
Pinfish	1975	ND		ND		ND		ND		
	1976	<.1	155	0.1	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		
	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		0.1	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	247	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			

Table A.3. (Cont'd.).

Species	Year	Mesh size															
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm					
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length				
Striped mullet	1975	ND		ND		ND		ND		ND		ND		ND		ND	
	1976	0.2	313	0.0		0.0		0.0		0.0		0.0		<.1		<.1	
	1977	0.2	324	0.1	453	<.1		<.1		<.1		509		0.0		0.0	
	1978	0.5	313	0.1	404	<.1		<.1		<.1		512		0.0		0.0	
	1979	0.1	329	<.1	410	<.1		0.0		0.0				0.0		0.0	
	1980	<.1	319	0.0		0.0		0.0		0.0				0.0		0.0	
	1981	0.1	333	<.1	436	<.1		0.0		0.0				0.0		0.0	
	1982	0.4	319	<.1	405	<.1		<.1		<.1		552		0.0		0.0	
	1983	0.2	335	0.0		0.0		<.1		<.1				0.0		0.0	
	1984	0.6	318	<.1	401	<.1		<.1		<.1		461		0.0		0.0	
	1985	0.2	319	<.1	409	<.1		<.1		<.1		520		0.0		0.0	
	1986	0.3	321	<.1	425	<.1		0.0		0.0				0.0		0.0	
	Other finfishes	1975	ND		ND		ND		ND		ND		ND		ND		ND
1976		<.1	287	0.1	331	0.1		0.0		0.0				0.0		0.0	
1977		0.1	255	0.1	340	0.1		0.0		0.0				<.1		<.1	892
1978		0.1	267	0.1	346	0.1		0.0		0.0				<.1		<.1	254
1979		<.1	540	0.0		0.0		0.0		0.0				0.0		0.0	
1980		0.1	262	<.1	297	<.1		0.0		0.0				<.1		<.1	810
1981		0.3	285	0.1	478	0.1		<.1		<.1		666		<.1		<.1	
1982		0.4	283	0.1	331	0.1		<.1		<.1		519		<.1		<.1	477
1983		1.3	269	0.4	328	0.4		<.1		<.1		353		<.1		<.1	418
1984		0.5	284	0.2	350	0.2		<.1		<.1		444		<.1		<.1	687
1985		0.3	299	0.2	353	0.2		<.1		<.1		551		<.1		<.1	1005
1986		0.5	359	0.4	403	0.4		0.1		0.1		722		0.1		0.1	901

Table A.4. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Matagorda Bay system during fall 1975-1986. Blank indicates no measurement taken.

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	No./h	Length	No./h	Length	
Red drum	1975	1.1	332	0.1	409	<.1	387	<.1	312	<.1	312	<.1	312	
	1976	0.3	370	0.2	460	0.0		0.0	618	<.1	618	<.1	618	
	1977	0.4	350	0.2	464	0.1	567	0.1	660	0.1	660	0.1	660	
	1978	0.8	359	0.1	414	0.1	545	0.1	630	<.1	630	<.1	630	
	1979	1.3	338	<.1	414	<.1	567	<.1	676	<.1	676	<.1	676	
	1980	0.2	346	0.2	475	0.1	565	0.1	477	<.1	477	<.1	477	
	1981	0.4	337	0.1	454	0.1	514	0.1	592	<.1	592	<.1	592	
	1982	0.4	332	0.1	476	0.1	538	0.1	561	<.1	561	<.1	561	
	1983	0.3	359	0.2	467	<.1	538	<.1	584	<.1	584	<.1	584	
	1984	0.2	359	<.1	491	<.1	594	<.1	708	<.1	708	<.1	708	
	1985	0.6	332	0.1	450	0.1	585	0.1	589	<.1	589	<.1	589	
	1986	0.5	341	0.1	484	0.1	544	0.1	558	<.1	558	<.1	558	
	Spotted seatrout	1975	0.5	385	0.1	517	<.1	570	<.1	661	0.0	661	0.0	661
		1976	0.3	387	0.1	526	<.1	681	<.1		0.0		0.0	
1977		0.2	387	0.1	492	0.1	573	0.1		<.1		<.1		
1978		0.7	386	0.1	506	<.1	621	<.1		0.0		0.0		
1979		0.4	396	0.1	490	0.0		0.0		0.0		0.0		
1980		0.2	396	0.1	446	0.0		0.0		0.0		0.0		
1981		0.2	402	0.1	503	<.1	536	<.1	483	<.1	483	<.1	483	
1982		0.2	397	0.1	494	<.1	521	<.1	452	<.1	452	<.1	452	
1983		0.2	410	0.1	501	<.1	598	<.1	505	<.1	505	<.1	505	
1984		0.1	393	<.1	545	<.1	572	<.1	361	<.1	361	<.1	361	
1985		0.2	399	0.1	507	<.1	635	<.1	462	<.1	462	<.1	462	
1986		0.4	389	0.9	444	<.1	492	<.1	432	<.1	432	<.1	432	

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	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	473	
	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	253	0.2	337	0.1	443	0.1	544	
	1983	0.2	250	0.3	347	0.1	458	<.1	620	
	1984	<.1	288	<.1	367	<.1	487	<.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	
	Sheepshead	1975	0.0		<.1	230	<.1	345	0.0	320
		1976	<.1	165	<.1	261	0.1	282	<.1	406
1977		0.0		<.1	262	<.1	317	<.1	407	
1978		<.1	385	<.1	336	<.1	311	<.1	356	
1979		<.1	268	<.1	273	0.1	329	<.1		
1980		0.0		0.0		<.1	353	0.0		
1981		<.1	235	<.1	254	0.1	289	0.1	327	
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	355	<.1	420	
1986		<.1	428	<.1	249	<.1	346	<.1	396	

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	No./h	Length	No./h	Length	
Southern flounder	1975	0.1	254	<.1	280	<.1	437	<.1	437	<.1	460	<.1	460	
	1976	<.1	220	<.1	307	<.1	338	<.1	338	0.0	390	0.0	390	
	1977	<.1	250	0.0		<.1	326	<.1	326	<.1	387	<.1	387	
	1978	0.0		0.0		<.1	284	<.1	284	<.1	454	<.1	454	
	1979	<.1	240	<.1	310	<.1	437	<.1	437	<.1	436	<.1	436	
	1980	<.1	203	0.1	311	0.1	343	0.1	343	<.1	413	<.1	413	
	1981	<.1	271	<.1	309	<.1	397	<.1	397	<.1	413	<.1	413	
	1982	<.1	281	<.1	296	<.1	369	<.1	369	<.1	413	<.1	413	
	1983	<.1	308	<.1	298	<.1	345	<.1	345	<.1	398	<.1	398	
	1984	<.1	224	<.1	300	<.1	350	<.1	350	<.1	384	<.1	384	
	1985	<.1	307	<.1	294	<.1	360	<.1	360	<.1	411	<.1	411	
	1986	<.1	280	<.1	304	<.1	387	<.1	387	<.1	416	<.1	416	
	Atlantic croaker	1975	0.0		0.0		0.0		0.0		0.0		0.0	
		1976	0.3	262	<.1	308	0.0	308	0.0	308	0.0	308	0.0	308
		1977	0.2	265	<.1	347	0.0	347	0.0	347	0.0	347	0.0	347
		1978	0.2	255	0.0		0.0		0.0		0.0		0.0	
1979		0.1	285	<.1	330	0.0	330	0.0	330	0.0	330	0.0	330	
1980		0.2	261	0.0		0.0		0.0		0.0		0.0		
1981		0.1	270	<.1	351	0.0	351	0.0	351	0.0	351	0.0	351	
1982		0.1	266	<.1	357	0.0	357	0.0	357	0.0	357	0.0	357	
1983		0.2	263	0.0		0.0		0.0		0.0		0.0		
1984		0.1	259	0.0		0.0		0.0		0.0		0.0		
1985	0.1	255	<.1	173	<.1	173	0.0	173	0.0	173	0.0	173		
1986	0.2	254	<.1	225	<.1	225	<.1	225	<.1	191	<.1	191		

Table A.4. (Cont'd.).

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		Length	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand seatrout	1975	0.0		<.1	315	0.1	262	0.2	298				
	1976	0.0		<.1	270	<.1	320	<.1	307				
	1977	<.1	321	0.0		0.0		0.0					
	1978	0.0		0.0		<.1	184	0.0	235				
	1979	0.0		<.1	269	<.1	252	<.1					
	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	311	<.1	280	<.1	260	<.1	252				
	1985	<.1	296	<.1	250	<.1	234	<.1					
	1986	0.0		<.1	235	<.1	272	0.0					
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	515				
	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	463	<.1	525	<.1	519				
	1985	<.1	433	<.1	460	<.1	508	<.1	545				
	1986	0.0		<.1	418	<.1	489	<.1	570				

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	No./h	Length	No./h	Length	
Gulf mendaden	1975	0.6	278	1.1	317	<.1	200	<.1	240	<.1	240	<.1	243	
	1976	0.2	240	<.1	270	<.1	261	<.1	243	<.1	243	<.1	243	
	1977	0.2	244	0.0		0.0				0.0		0.0		
	1978	<.1	229	<.1	256	<.1	263	<.1	246	0.0		0.0		
	1979	0.4	251	<.1	255	<.1	238	<.1		<.1		<.1		
	1980	<.1	260	<.1	260	0.0				0.0		0.0		
	1981	0.1	249	<.1	239	<.1	233	<.1	235	<.1		<.1	235	
	1982	<.1	255	<.1	234	<.1	205	<.1	243	<.1		<.1	243	
	1983	<.1	248	<.1	269	<.1	227	<.1	273	<.1		<.1	273	
	1984	0.2	248	<.1	244	<.1	258	<.1	241	<.1		<.1	241	
	1985	0.1	254	<.1	275	<.1	249	<.1	219	<.1		<.1	219	
	1986	0.2	241	<.1	242	<.1	224	<.1	237	<.1		<.1	237	
	Hardhead catfish	1975	0.1	305	<.1	365	<.1	265	<.1	310	<.1		<.1	310
		1976	0.1	283	0.1	289	<.1	304	<.1	170	<.1		<.1	170
		1977	0.1	306	<.1	298	<.1	318	<.1		0.0		0.0	
		1978	0.1	286	<.1	297	<.1	248	<.1		0.0		0.0	
1979		0.1	306	<.1	388	<.1	350	<.1		0.0		0.0		
1980		0.1	331	0.0		0.0				0.0		0.0		
1981		0.2	316	0.1	312	<.1	249	<.1	343	<.1		<.1	343	
1982		0.2	325	0.1	355	<.1	284	<.1	295	<.1		<.1	295	
1983		0.2	325	0.1	354	<.1	304	<.1	353	<.1		<.1	353	
1984		0.3	314	0.1	352	<.1	323	<.1	340	<.1		<.1	340	
1985		0.4	325	0.2	370	<.1	332	<.1	333	<.1		<.1	333	
1986		0.3	317	0.2	265	<.1	328	<.1	312	<.1		<.1	312	

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	
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	231	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	<.1		0.0		0.0		
	1985	<.1	177	0.0		<.1	209	<.1		
	1986	<.1	158	<.1	110	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	243	0.0		0.0		0.0		
1984		<.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			

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	No./h	Length	No./h	Length
Striped mullet	1975	0.3	318	0.1	411	0.0		0.0		0.0		0.0	
	1976	0.2	328	0.1	422	0.0		0.0		0.0		0.0	
	1977	0.4	323	<.1	482	0.0		0.0		0.0		0.0	
	1978	0.6	330	0.1	451	0.0		0.0		0.0		0.0	
	1979	0.3	339	<.1	430	0.0		0.0		0.0		0.0	
	1980	0.2	332	<.1	426	0.0		0.0		0.0		0.0	
	1981	0.2	320	<.1	439	0.0		0.0		0.0		0.0	
	1982	0.3	327	<.1	424	0.0		0.0		0.0		0.0	
	1983	0.2	334	<.1	408	<.1	420	0.0		0.0		0.0	
	1984	0.2	327	<.1	405	0.0		0.0		0.0		0.0	
	1985	0.2	319	<.1	430	0.0		0.0		0.0		0.0	
	1986	0.1	333	<.1	4.3	0.0		0.0		0.0		0.0	
	Other finfishes	1975	0.4	309	0.4	402	0.1	908	0.1	908	0.1	864	0.1	864
1976		0.8	307	0.2	543	0.1	862	0.1	862	0.2	885	0.2	885
1977		1.6	355	0.8	361	0.1	771	0.1	771	0.2	922	0.2	922
1978		0.7	281	0.3	392	0.1	579	0.1	579	0.1	846	0.1	846
1979		0.6	311	0.1	369	<.1	624	<.1	624	<.1	928	<.1	928
1980		0.4	277	0.2	405	<.1	869	<.1	869	<.1	827	<.1	827
1981		0.4	371	0.1	403	0.1	828	0.1	828	<.1	899	<.1	899
1982		0.8	430	0.1	533	0.1	794	0.1	794	<.1	723	<.1	723
1983		1.1	305	0.2	528	0.1	868	0.1	868	0.1	843	0.1	843
1984		0.6	462	0.1	468	<.1	771	<.1	771	<.1	945	<.1	945
1985		0.5	344	0.1	522	0.1	861	0.1	861	0.1	885	0.1	885
1986		0.7	389	0.3	427	0.1	816	0.1	816	0.2	787	0.2	787

Table A.4. (Cont'd.).

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Total finfishes	1975	3.3	315	2.3	342	0.5	487	0.6	510	0.3	618	0.4	700
	1976	2.7	303	1.0	415	0.6	502	0.6	618	0.4	700	0.2	654
	1977	3.3	335	1.4	371	0.4	564	0.4	700	0.2	654	0.1	637
	1978	3.5	320	0.9	395	0.5	453	0.2	637	0.2	654	0.2	570
	1979	3.4	323	0.5	410	0.2	441	0.3	570	0.2	654	0.2	560
	1980	2.2	290	0.7	395	0.3	503	0.2	560	0.2	654	0.2	534
	1981	1.8	333	0.6	399	0.4	496	0.4	534	0.2	654	0.2	621
	1982	2.3	322	0.8	410	0.4	501	0.4	621	0.2	654	0.1	686
	1983	2.5	316	0.8	410	0.4	529	0.4	686	0.1	656	0.3	656
	1984	1.6	324	0.3	413	0.1	549	0.1	656	0.4	656	0.3	643
	1985	2.4	316	0.7	407	0.4	549	0.4	656	0.3	656	0.3	643
	1986	2.7	317	1.9	408	0.5	535	0.5	643	0.3	656	0.3	643

Table A.5. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the San Antonio Bay system during fall 1975-1986. Blank indicates no measurement taken.

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	No./h	Length	No./h	Length	
Red drum	1975	0.8	319	0.1	408	<.1	360	<.1	310	<.1	<.1	360	<.1	310
	1976	0.9	349	0.4	487	0.2	511	0.2	361	<.1	<.1	511	<.1	361
	1977	0.6	340	0.2	414	0.1	525	0.1	601	<.1	<.1	525	<.1	601
	1978	0.5	359	0.1	414	<.1	568	<.1	630	<.1	<.1	568	<.1	630
	1979	1.3	343	0.3	409	0.2	492	0.2	588	0.1	0.1	492	0.1	588
	1980	0.4	346	0.2	447	0.2	495	0.2	609	<.1	<.1	495	<.1	609
	1981	0.5	343	0.1	436	<.1	524	<.1	577	<.1	<.1	524	<.1	577
	1982	0.4	329	0.1	417	<.1	520	<.1	478	<.1	<.1	520	<.1	478
	1983	0.4	354	0.1	490	<.1	555	<.1	631	<.1	<.1	555	<.1	631
	1984	0.5	363	0.1	430	<.1	594	<.1	675	<.1	<.1	594	<.1	675
	1985	1.0	334	0.1	432	0.1	530	0.1	529	<.1	<.1	530	<.1	529
	1986	0.5	335	0.3	484	0.3	536	0.3	507	0.1	0.1	536	0.1	507
Spotted seatrout	1975	1.0	376	0.2	471	0.0	456	0.0	397	0.0	0.0	471	0.0	397
	1976	0.5	398	0.2	500	<.1	455	<.1	422	<.1	<.1	500	<.1	422
	1977	0.6	380	<.1	481	0.0	445	0.0	509	0.0	0.0	481	0.0	509
	1978	0.4	369	0.1	542	0.0	477	0.0	459	0.0	0.0	369	0.0	459
	1979	0.2	397	0.1	487	<.1	461	<.1	527	<.1	<.1	397	<.1	527
	1980	0.2	409	0.1	494	<.1	549	<.1	476	<.1	<.1	409	<.1	476
	1981	0.2	398	0.1	502	<.1	461	<.1	509	<.1	<.1	398	<.1	509
	1982	0.3	409	0.1	508	<.1	636	<.1	459	<.1	<.1	409	<.1	459
	1983	0.4	406	0.1	515	<.1	543	<.1	527	<.1	<.1	406	<.1	527
	1984	0.1	391	<.1	517	<.1	477	<.1	476	<.1	<.1	391	<.1	476
	1985	0.1	383	<.1	500	<.1	477	<.1	476	0.0	0.0	383	<.1	476
	1986	0.2	394	0.1	500	<.1	477	<.1	476	<.1	<.1	394	<.1	476

Table A.5. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1975	0.2	216	0.3	353	0.1	361	0.0	361	0.1	361	0.0	361	
	1976	0.2	228	0.6	315	0.3	386	0.1	386	0.3	386	0.1	386	
	1977	0.1	273	0.4	319	0.2	390	<.1	390	0.2	390	<.1	390	
	1978	0.1	227	0.1	311	0.1	381	<.1	381	0.1	381	<.1	381	
	1979	0.1	246	0.2	327	0.1	439	<.1	439	0.1	439	<.1	439	
	1980	0.5	255	0.6	316	<.1	363	0.1	363	<.1	363	0.1	363	
	1981	0.2	244	0.2	338	0.1	392	<.1	392	0.1	392	<.1	392	
	1982	0.6	221	0.4	343	0.1	503	<.1	503	0.1	503	<.1	503	
	1983	0.3	239	0.2	348	0.1	404	0.1	404	0.1	404	0.1	404	
	1984	0.3	223	<.1	308	<.1	594	<.1	594	<.1	594	<.1	594	
	1985	0.2	227	0.1	323	0.1	427	0.1	427	0.1	427	<.1	427	
	1986	0.1	235	0.1	342	0.1	408	0.1	408	0.1	408	<.1	408	
	Sheepshead	1975	<.1	210	0.1	217	<.1	262	0.1	262	<.1	262	0.1	262
		1976	<.1	166	0.1	260	0.1	319	0.2	319	0.1	319	0.2	319
1977		0.0		<.1	251	<.1	322	0.1	322	<.1	322	0.1	322	
1978		0.0		<.1	276	0.1	355	0.3	355	0.1	355	0.3	355	
1979		<.1	205	<.1	270	0.2	359	0.2	359	0.2	359	0.2	359	
1980		0.0		0.2	254	0.4	303	0.1	303	0.4	303	0.1	303	
1981		<.1	340	0.1	294	0.1	331	0.1	331	0.1	331	0.1	331	
1982		<.1	249	0.1	367	<.1	336	<.1	336	<.1	336	<.1	336	
1983		<.1	308	0.1	256	0.1	372	<.1	372	<.1	372	<.1	372	
1984		<.1	438	<.1	491	<.1	423	<.1	423	<.1	423	<.1	423	
1985	<.1	396	<.1	327	<.1	374	<.1	374	<.1	374	<.1	374		
1986	<.1	291	<.1	298	<.1	337	<.1	337	<.1	337	<.1	337		

Table A.5. (Cont'd.).

Species	Year	Mesh size															
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm					
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length				
Sand seatrout	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	211
	1979	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0	175	0.0		0.0		0.0		0.0		0.0	
	1982	<.1		0.0		0.0	282	0.0		0.0		0.0		0.0		0.0	
	1983	0.0	212	0.0		0.0	196	0.0		0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1985	<.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	Gafftopsail catfish	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
1976		0.0		0.1		0.1	447	0.2		0.2		0.2		0.2		0.2	515
1977		0.0		<.1		<.1	509	0.1		0.1		0.1		0.1		0.1	527
1978		0.0		0.0		0.0		<.1		<.1		<.1		<.1		<.1	523
1979		<.1		<.1		<.1	533	<.1		<.1		<.1		<.1		<.1	500
1980		0.0		0.1		0.1	490	0.2		0.2		0.2		0.2		0.2	510
1981		0.0		<.1		<.1	448	<.1		<.1		<.1		<.1		<.1	541
1982		<.1		0.1		0.1	491	0.2		0.2		0.2		0.2		0.2	530
1983		<.1		0.1		0.1	474	0.1		0.1		0.1		0.1		0.1	518
1984		<.1		0.1		0.1	460	0.1		0.1		0.1		0.1		0.1	535
1985		0.0		<.1		<.1	506	<.1		<.1		<.1		<.1		<.1	531
1986		<.1		0.1		0.1	445	<.1		<.1		<.1		<.1		<.1	520

Table A.5. (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	<.1	255	<.1	335	0.0		<.1	250	
	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	245	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	281	<.1	250	<.1	237	
	1986	0.1	241	<.1	254	<.1	276	<.1	263	
	Hardhead catfish	1975	0.4	311	0.1	369	<.1	335	<.1	295
		1976	0.4	318	0.2	311	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	297	
1980		0.3	319	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	343	
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	

Table A.5. (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	No./h	Length	No./h	Length			
Pinfish	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1976	0.2	211	<.1	216	<.1		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.1	222	0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1981	<.1	178	<.1	174	<.1		0.0		0.0		0.0		0.0		
	1982	<.1	187	0.0		0.0		0.0		0.0		0.0		0.0		
	1983	<.1	191	<.1	158	<.1	152		<.1		<.1		0.0		0.0	
	1984	<.1	158	<.1	128	<.1		0.0		0.0		0.0		0.0		
	1985	<.1	206	0.0		0.0		0.0		0.0		0.0		0.0		
	1986	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	Spot	1975	<.1	230	0.0		0.0		0.0		0.0		0.0		0.0	
		1976	0.3	236	<.1		<.1		0.0		0.0		0.0		0.0	
		1977	0.2	240	0.0		0.0		0.0		0.0		0.0		0.0	
		1978	<.1	220	0.1	285	<.1		<.1		<.1		<.1		0.0	
1979		<.1	266	<.1	309	<.1		0.0		0.0		0.0		0.0		
1980		0.1	246	0.0		0.0		0.0		0.0		0.0		0.0		
1981		<.1	253	0.0		0.0		0.0		0.0		0.0		0.0		
1982		0.1	240	<.1	343	<.1		<.1		<.1		<.1		0.0		
1983		0.2	246	0.0		0.0		0.0		0.0		0.0		0.0		
1984		0.1	241	0.0		0.0		0.0		0.0		0.0		0.0		
1985	0.1	237	0.0		0.0		0.0		0.0		0.0		0.0			
1986	0.1	231	<.1	266	<.1		<.1		<.1		<.1		<.1	227		

Table A.5. (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	No./h	Length	No./h	Length		
Striped mullet	1975	0.6	317	<.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	429	<.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	
	Other finfishes	1975	0.2	300	0.1	307	<.1	537						0.1	890
		1976	0.6	283	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	1011	
1979		0.4	344	0.1	516	<.1	875						0.1	627	
1980		1.0	291	0.1	355	<.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	

Table A.5. (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	3.2	325	1.0	353	0.2	386	0.3	582
	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	527
	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

Table A.6. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Arkansas Bay system during fall 1975-1986. Blank indicates no measurement taken.

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	No./h	Length	No./h	Length	
Red drum	1975	0.8	327	<.1	441	<.1	575	<.1	575	0.0		0.0		
	1976	0.3	337	0.2	464	<.1	518	<.1	518	0.0		0.0		
	1977	0.4	346	0.1	445	<.1	542	<.1	542	<.1		<.1	659	
	1978	0.4	381	0.5	414	<.1	456	<.1	456	0.0		0.0		
	1979	0.6	345	0.1	415	0.1	550	<.1	550	<.1		<.1	357	
	1980	0.6	336	0.3	417	0.1	542	0.1	542	<.1		<.1	293	
	1981	0.5	348	0.1	446	0.1	526	0.1	526	<.1		<.1	600	
	1982	0.3	327	0.1	454	0.1	504	0.1	504	<.1		<.1	695	
	1983	0.2	360	0.1	449	<.1	523	<.1	523	<.1		<.1	643	
	1984	0.4	350	0.1	454	<.1	531	<.1	531	<.1		<.1	561	
	1985	0.5	356	0.1	483	0.2	559	0.2	559	0.1		0.1	593	
	1986	0.4	340	0.2	475	0.3	544	0.3	544	0.1		0.1	610	
	Spotted seatrout	1975	0.3	411	0.4	519	0.0	519	0.0	519	0.0		0.0	
		1976	0.1	357	0.1	496	<.1	553	<.1	553	0.0		0.0	
1977		<.1	356	<.1	527	<.1	527	<.1	527	0.0		0.0		
1978		<.1	363	<.1	462	<.1	627	<.1	627	0.0		0.0		
1979		<.1	421	<.1	487	<.1	494	<.1	494	0.0		0.0		
1980		0.1	393	0.1	470	<.1	548	<.1	548	<.1		<.1	511	
1981		0.1	405	0.1	493	<.1	544	<.1	544	<.1		<.1	534	
1982		0.1	408	0.1	505	<.1	547	<.1	547	<.1		<.1	429	
1983		0.1	418	0.1	514	<.1	509	0.0	509	<.1		<.1	508	
1984		0.1	422	<.1	500	<.1	469	<.1	469	<.1		<.1	411	

Table A.6. (Cont'd.).

Species	Year	Mesh size																
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		7.6-cm		10.2-cm		12.7-cm		15.2-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1975	0.4	259	0.4	340	<.1	370	0.0	370	<.1	370	0.0	370	<.1	370	0.0	370	
	1976	0.1	262	0.3	305	0.2	483	<.1	483	0.2	483	<.1	483	<.1	483	<.1	483	
	1977	0.1	244	0.2	310	0.1	400	<.1	400	0.1	400	<.1	400	<.1	400	<.1	400	
	1978	0.2	231	0.1	325	0.1	401	0.1	401	0.1	401	0.1	401	0.1	401	0.1	401	
	1979	0.1	241	0.1	310	0.1	435	0.1	435	0.1	435	0.1	435	0.1	435	0.1	435	
	1980	0.2	240	0.5	303	0.1	494	0.1	494	0.1	494	0.1	494	0.1	494	0.1	494	
	1981	0.1	256	0.2	329	0.1	393	0.1	393	0.1	393	0.1	393	0.1	393	0.1	393	
	1982	0.2	247	0.5	314	0.2	405	0.2	405	0.2	405	0.2	405	0.2	405	0.2	405	
	1983	0.2	248	0.2	331	0.2	396	0.2	396	0.2	396	0.2	396	0.2	396	0.2	396	
	1984	0.1	219	<.1	350	<.1	646	<.1	646	<.1	646	<.1	646	<.1	646	<.1	646	
	1985	0.1	226	0.1	334	0.1	396	0.1	396	0.1	396	0.1	396	0.1	396	0.1	396	
	1986	0.1	241	0.2	343	0.1	405	0.1	405	0.1	405	0.1	405	0.1	405	0.1	405	
	Sheepshead	1975	0.0		0.8	265	0.4	340	0.2	340	0.4	340	0.2	340	0.2	340	0.2	340
		1976	<.1		0.6	232	0.3	271	0.1	271	0.3	271	0.1	271	0.1	271	0.1	271
		1977	0.0		0.2	234	0.2	268	0.1	268	0.2	268	0.1	268	0.1	268	0.1	268
		1978	0.0		0.2	268	0.2	322	0.1	322	0.2	322	0.1	322	0.1	322	0.1	322
		1979	0.0		0.1	282	0.4	309	0.2	309	0.4	309	0.2	309	0.2	309	0.2	309
		1980	<.1	360	0.1	246	0.2	293	0.2	293	0.2	293	0.2	293	0.2	293	0.2	293
1981		<.1	262	<.1	288	0.1	315	0.1	315	0.1	315	0.1	315	0.1	315	0.1	315	
1982		<.1	171	<.1	284	<.1	333	0.1	333	0.1	333	0.1	333	0.1	333	0.1	333	
1983		<.1	326	<.1	281	<.1	351	<.1	351	<.1	351	<.1	351	<.1	351	<.1	351	
1984		<.1	532	<.1	414	<.1	396	<.1	396	<.1	396	<.1	396	<.1	396	<.1	396	
1985		<.1	274	<.1	256	<.1	359	<.1	359	<.1	359	<.1	359	<.1	359	<.1	359	
1986		<.1	230	<.1	279	<.1	316	<.1	316	<.1	316	<.1	316	<.1	316	<.1	316	

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	No./h	Length	No./h	Length			
Southern flounder	1975	0.0		<.1	280	0.0		<.1		0.0		<.1		0.0		
	1976	<.1	268	0.1	303	<.1		<.1	341	<.1		<.1		0.0		
	1977	<.1	250	<.1	311	<.1		<.1	355	<.1		<.1		0.0		
	1978	<.1	215	<.1		0.0		0.1	365	0.1		<.1		<.1	397	
	1979	<.1	281	<.1		348	<.1	<.1	377	<.1		<.1		<.1	397	
	1980	<.1	228	<.1		336	<.1	<.1	431	<.1		<.1		<.1	353	
	1981	<.1	278	<.1		323	<.1	<.1	389	<.1		<.1		<.1	453	
	1982	<.1	347	<.1		303	<.1	<.1	364	<.1		<.1		<.1	398	
	1983	<.1	316	<.1		318	<.1	<.1	325	<.1		<.1		<.1	431	
	1984	<.1	237	<.1		327	<.1	<.1	352	<.1		<.1		<.1	401	
	1985	<.1	236	<.1		306	<.1	<.1	370	<.1		<.1		<.1	405	
	1986	<.1	311	<.1		337	<.1	<.1	357	<.1		<.1		<.1	383	
															<.1	426
	Atlantic croaker	1975	<.1	283	0.1	367	0.1		0.0		0.0		0.0		0.0	
1976		0.2	284	0.1	361	0.1		0.0		0.0		0.0		0.0		
1977		0.4	266	0.4	336	0.4		<.1	394	<.1		0.0		0.0		
1978		0.3	291	0.2	357	0.2		0.0		0.0		0.0		0.0		
1979		0.1	272	0.1	342	0.1		<.1	382	<.1		0.0		0.0		
1980		0.1	268	0.1	349	0.1		<.1	355	<.1		<.1		<.1		
1981		0.3	286	0.2	351	0.2		0.1	381	0.1		<.1		<.1	364	
1982		0.1	295	0.2	345	0.2		0.2	381	<.1		<.1		<.1	338	
1983		0.2	288	0.1	340	0.1		<.1	334	<.1		0.0		0.0		
1984		0.1	259	<.1	301	<.1		<.1	240	<.1		0.0		0.0		
1985		0.3	264	<.1	332	<.1		<.1		<.1		0.0		0.0		
1986		0.2	267	<.1	339	<.1		<.1		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		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand seatrout	1975	<.1		0.0	290	0.0		0.0		<.1		<.1	325
	1976	0.0		0.0		0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		<.1	226	0.0		0.0	
	1982	0.0		0.0		0.0		<.1	297	0.0		0.0	
	1983	0.0		<.1	263	<.1		<.1	311	0.0		0.0	
	1984	<.1	361	<.1	270	<.1		<.1	206	0.0		0.0	
	1985	0.0		<.1	237	<.1		<.1		0.0		<.1	206
	1986	0.0		0.0		0.0		0.0		0.0		<.1	
	Gafftopsail catfish	1975	0.0		0.0		0.0		0.0		0.0		<.1	540
1976		0.0		0.0		0.0		0.0		0.0		<.1	587
1977		0.0		<.1	385	<.1		<.1		0.0		0.0	
1978		0.0		0.0		0.0		0.0		0.0		0.0	495
1979		0.0		0.0		0.0		<.1	545	<.1		<.1	596
1980		0.0		<.1	520	<.1		<.1	492	<.1		<.1	562
1981		<.1	195	<.1	423	<.1		<.1	521	<.1		<.1	570
1982		<.1	148	<.1	467	<.1		<.1	548	<.1		<.1	590
1983		<.1		<.1	478	<.1		<.1	533	<.1		<.1	558
1984		<.1	363	<.1	478	<.1		<.1	532	<.1		<.1	568
1985		0.0		<.1	470	<.1		<.1	540	<.1		0.1	571
1986		<.1	371	<.1	484	<.1		0.1	526	<.1		<.1	

Table A.6. (Cont'd.).

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Gulf menhaden	1975	0.0		0.1	331	<.1	282	<.1	280	<.1	282	<.1	280
	1976	<.1		<.1	272	<.1	261	<.1	263	<.1	261	<.1	263
	1977	<.1	242	0.0		0.0			215	<.1		<.1	215
	1978	0.3	254	<.1	225	0.1	222		228	<.1	222	<.1	228
	1979	<.1	251	0.0		<.1	269	<.1	245	<.1	269	<.1	245
	1980	<.1	238	<.1	249	<.1	247	<.1	230	<.1	247	<.1	230
	1981	<.1	251	<.1	232	<.1	234	<.1	224	<.1	234	<.1	224
	1982	<.1	243	<.1	225	<.1	236	<.1		<.1	236	<.1	
	1983	0.1	248	<.1	255	<.1	214	<.1	232	<.1	214	<.1	232
	1984	0.5	250	<.1	271	<.1	241	<.1	250	<.1	241	<.1	250
	1985	0.1	248	<.1	326	<.1	243	<.1		0.0	243	0.0	
	1986	0.1	244	<.1	278	<.1	223	<.1	232	<.1	223	<.1	232
	Hardhead catfish	1975	0.1	310	0.0		0.0			305	<.1		<.1	305
1976		0.1	285	<.1	310	<.1	277	<.1		<.1	277	<.1	
1977		<.1	297	<.1	334	<.1	412	<.1		0.0	412	0.0	
1978		0.1	316	0.1	369	<.1		<.1	284	<.1		<.1	284
1979		0.1	324	0.1	372	<.1	390	<.1	255	<.1	390	<.1	255
1980		0.2	311	0.1	373	<.1	309	<.1		0.0	309	0.0	
1981		0.2	334	0.1	366	<.1	363	<.1	329	<.1	363	<.1	329
1982		0.2	333	0.1	378	<.1	340	<.1	323	<.1	340	<.1	323
1983		0.2	326	0.2	372	<.1	378	<.1	359	<.1	378	<.1	359
1984		0.3	321	0.3	363	<.1	342	<.1	321	<.1	342	<.1	321
1985		0.2	330	0.2	376	<.1	348	<.1	354	<.1	348	<.1	354
1986		0.3	328	0.3	376	0.1	401	0.1	320	<.1	401	<.1	320

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					
Pinfish	1975	0.0		0.0		0.0		0.0		0.0		0.0		
	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	<.1	210	0.0		0.0		0.0		0.0		0.0		
	1978	<.1	247	0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		
	1981	<.1	217	<.1	196	0.0		0.0		0.0		0.0		
	1982	<.1	216	<.1	219	0.0		0.0		0.0		0.0		
	1983	<.1	174	0.0		0.0		0.0		0.0		0.0		
	1984	<.1	196	<.1	135	0.0		0.0		0.0		0.0		
	1985	<.1	167	<.1	138	0.0		0.0		0.0		0.0		
	1986	<.1	196	<.1	307	0.0		0.0		0.0		0.0		
	Spot	1975	0.1	236	0.0		0.0		0.0		0.0		0.0	
		1976	<.1	216	<.1	305	0.0		0.0		0.0		0.0	
		1977	0.1	242	<.1	248	0.0		0.0		0.0		0.0	
		1978	0.1	259	0.0		0.0		0.0		0.0		0.0	
1979		<.1	249	<.1	300	0.0		0.0		0.0		0.0		
1980		<.1	217	0.0		0.0		0.0		0.0		0.0		
1981		<.1	257	<.1	285	0.0		0.0		0.0		0.0		
1982		0.1	240	<.1	290	0.0		0.0		0.0		0.0		
1983		0.1	241	<.1	292	0.0		0.0		0.0		0.0		
1984		<.1	238	<.1	304	0.0		0.0		0.0		0.0		
1985		0.1	237	0.0		0.0		0.0		0.0		0.0		
1986	0.1	237	<.1	225	0.0		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				
Total finfishes	1975	5.0	318	2.5	355	0.6	458	0.4	483				
	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	465				
	1978	3.0	309	1.4	373	0.5	371	0.3	434				
	1979	1.8	333	0.9	369	0.7	426	0.4	459				
	1980	2.1	303	1.6	354	0.7	431	0.4	444				
	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	315	0.8	426	0.4	687	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				

Table A.7. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Corpus Christi Bay system during fall 1975-1986. Blank indicates no measurement taken.

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.3	326	0.1	344	<.1	370	<.1	370	<.1	290	<.1	290
	1976	0.2	357	0.1	486	0.2	544	0.2	544	<.1	638	<.1	638
	1977	0.2	330	0.1	429	0.1	555	0.1	555	<.1	554	<.1	554
	1978	0.2	346	0.1	432	0.1	561	0.1	561	<.1	592	<.1	592
	1979	0.6	328	0.1	398	<.1	587	<.1	587	<.1	673	<.1	673
	1980	0.5	327	0.1	480	<.1	554	<.1	554	<.1	540	<.1	540
	1981	0.3	337	0.1	432	0.1	508	0.1	508	<.1	694	<.1	694
	1982	0.2	328	<.1	454	0.1	536	0.1	536	<.1	678	<.1	678
	1983	0.1	348	0.1	456	0.1	549	0.1	549	<.1	529	<.1	529
	1984	0.6	360	0.1	466	0.1	577	0.1	577	<.1	671	<.1	671
	1985	0.4	339	0.2	494	0.2	551	0.2	551	<.1	616	<.1	616
	1986	0.2	326	0.2	481	0.1	549	0.1	549	<.1	640	<.1	640
	Spotted seatrout	1975	0.2	388	0.2	497	0.1	606	0.1	606	<.1	680	<.1	680
1976		0.4	367	0.1	443	<.1	418	<.1	418	<.1	645	<.1	645
1977		0.1	403	0.1	516	<.1	657	<.1	657	<.1	655	<.1	655
1978		0.1	385	<.1	533	0.0		0.0		0.0		0.0	
1979		0.2	381	<.1	508	<.1	592	<.1	592	<.1	431	<.1	431
1980		0.2	373	0.1	535	<.1	624	<.1	624	<.1	577	<.1	577
1981		0.3	402	0.1	474	<.1	577	<.1	577	<.1	589	<.1	589
1982		0.1	396	0.1	534	<.1	584	<.1	584	<.1	577	<.1	577
1983		0.2	399	0.1	487	<.1	600	<.1	600	<.1	467	<.1	467
1984		0.1	410	0.1	529	<.1	529	<.1	529	<.1	435	<.1	435
1985	0.2	384	0.1	508	<.1	505	<.1	505	<.1	546	<.1	546	
1986	0.2	388	0.2	550	<.1	588	<.1	588	<.1	647	<.1	647	

Table A.7. (Cont'd.).

Species	Year	Mesh size																
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		7.6-cm		10.2-cm		12.7-cm		15.2-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1975	<.1	232	0.1	311	0.2	387	0.1	445	<.1	232	0.1	311	0.2	387	0.1	445	
	1976	<.1	220	0.1	329	0.2	374	<.1	488	<.1	220	0.1	329	0.2	374	<.1	488	
	1977	<.1		0.1	307	0.1	377	<.1	479	<.1		0.1	307	0.1	377	<.1	479	
	1978	<.1	358	<.1	343	<.1	419	<.1	438	<.1	358	<.1	343	<.1	419	<.1	438	
	1979	0.1	222	0.1	307	0.1	393	0.1	504	0.1	222	0.1	307	0.1	393	0.1	504	
	1980	0.1	243	0.1	337	0.3	383	0.1	438	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	0.1	241	0.2	321	0.1	391	0.1	473	
	1982	<.1	243	0.2	337	0.2	399	0.1	481	<.1	243	0.2	337	0.2	399	0.1	481	
	1983	<.1	323	0.2	337	0.3	415	0.2	486	<.1	323	0.2	337	0.3	415	0.2	486	
	1984	<.1	232	0.1	362	0.1	413	<.1	478	<.1	232	0.1	362	0.1	413	<.1	478	
	1985	0.1	233	<.1	396	0.1	415	0.1	500	0.1	233	<.1	396	0.1	415	0.1	500	
	1986	0.1	265	0.1	358	0.2	407	0.1		0.1	265	0.1	358	0.2	407	0.1		
	Sheepshead	1975	0.0		0.0		<.1	390	0.1	373	0.0		0.0		<.1	390	0.1	373
		1976	0.0		0.0		<.1	306	<.1	371	0.0		0.0		<.1	306	<.1	371
		1977	0.0		<.1	252	0.1	339	<.1	339	0.0		<.1	252	0.1	339	<.1	339
		1978	<.1	274	0.0		0.1	363	<.1	376	<.1	274	0.0		0.1	363	<.1	376
1979		0.0	288	<.1	284	0.1	327	0.1	368	0.0	288	<.1	284	0.1	327	0.1	368	
1980		<.1	324	<.1	320	0.1	364	0.1	389	<.1	324	<.1	320	0.1	364	0.1	389	
1981		<.1		<.1	299	0.1	326	<.1	390	<.1		<.1	299	0.1	326	<.1	390	
1982		0.0		<.1	328	<.1	346	<.1	394	0.0		<.1	328	<.1	346	<.1	394	
1983		<.1	406	<.1	341	<.1	357	<.1	380	<.1	406	<.1	341	<.1	357	<.1	380	
1984		<.1	433	<.1	351	<.1	377	<.1	426	<.1	433	<.1	351	<.1	377	<.1	426	
1985	<.1	188	<.1	339	<.1	347	<.1	395	<.1	188	<.1	339	<.1	347	<.1	395		
1986	<.1	304	<.1	329	<.1	349	<.1	389	<.1	304	<.1	329	<.1	349	<.1	389		

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	No./h	Length	No./h	Length	
Southern flounder	1975	<.1	485	0.1	271	<.1	445	<.1	445	<.1	430	<.1	430	
	1976	<.1	344	<.1	306	0.1	349	0.1	349	0.1	383	0.1	383	
	1977	0.0		<.1	245	<.1	324	<.1	324	0.1	429	0.1	429	
	1978	<.1	306	<.1	358	0.1	388	0.1	388	<.1	399	<.1	399	
	1979	<.1	294	<.1	307	<.1	388	<.1	388	<.1	427	<.1	427	
	1980	<.1	234	0.1	346	<.1	345	<.1	345	<.1	454	<.1	454	
	1981	<.1	321	<.1	328	<.1	353	<.1	353	<.1	415	<.1	415	
	1982	<.1	248	<.1	305	<.1	381	<.1	381	<.1	438	<.1	438	
	1983	<.1	328	<.1	315	<.1	361	<.1	361	<.1	420	<.1	420	
	1984	<.1	275	<.1	306	<.1	369	<.1	369	<.1	417	<.1	417	
	1985	<.1	328	<.1	307	<.1	370	<.1	370	<.1	405	<.1	405	
	1986	<.1	340	<.1	333	<.1	399	<.1	399	<.1	434	<.1	434	
	Atlantic croaker	1975	0.1	269	0.3	340	<.1	285	<.1	285	0.0	280	0.0	280
		1976	0.2	273	0.3	343	0.1	352	0.1	352	<.1		<.1	
1977		0.1	292	0.4	354	0.1	377	0.1	377	0.0		0.0		
1978		0.3	285	0.1	342	<.1	283	<.1	283	0.0		0.0		
1979		0.1	270	0.4	349	<.1	367	<.1	367	0.0		0.0		
1980		0.6	280	1.0	348	<.1	316	<.1	316	0.0		0.0		
1981		0.4	283	0.3	349	<.1	389	<.1	389	<.1	347	<.1	347	
1982		0.5	294	0.5	349	0.1	383	0.1	383	<.1	324	<.1	324	
1983		0.4	297	0.5	341	<.1	346	<.1	346	<.1	314	<.1	314	
1984		0.4	267	<.1	321	<.1	249	<.1	249	<.1		<.1		
1985		0.5	266	0.1	327	<.1	319	<.1	319	0.0		0.0		
1986		1.0	279	0.3	341	<.1	292	<.1	292	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		17.8-cm		20.3-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Sand seatrout	1975	<.1	360	<.1	280	0.0		0.0		<.1		<.1	
	1976	<.1	345	0.1	287	0.1	304	0.1		0.1		0.1	225
	1977	0.0		0.0		0.0				0.0		0.0	304
	1978	0.0		0.0		0.0		0.0		0.0		0.0	
	1979	<.1	313	<.1	275	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0		0.0	
	1981	<.1	318	<.1	231	<.1	250	<.1		<.1		0.0	
	1982	<.1	302	<.1	324	<.1	271	<.1		<.1		<.1	315
	1983	0.0		<.1	252	<.1	271	<.1		<.1		<.1	299
	1984	<.1	331	<.1	285	<.1	272	<.1		<.1		<.1	282
	1985	<.1	271	<.1	223	<.1	235	<.1		<.1		<.1	312
	1986	<.1	291	<.1	258	<.1	226	<.1		<.1		0.0	
	Gafftopsail catfish	1975	0.0		0.0		<.1	570	<.1		<.1		<.1	577
1976		0.0		0.0		0.0		0.0		0.0		<.1	475
1977		0.0		0.0		0.0		0.0		0.0		<.1	600
1978		0.0		0.0		<.1	538	<.1		<.1		<.1	569
1979		0.0		0.0		0.0		0.0		0.0		0.0	
1980		0.0		0.0		0.0		<.1		<.1		<.1	592
1981		<.1	339	<.1	485	<.1	543	<.1		<.1		<.1	545
1982		0.0		<.1	495	<.1	516	<.1		<.1		<.1	571
1983		<.1	333	<.1	466	<.1	535	<.1		<.1		<.1	570
1984		<.1	318	<.1	430	<.1	454	<.1		<.1		<.1	578
1985		<.1	324	<.1	505	<.1	550	<.1		<.1		<.1	558
1986		<.1	266	<.1	467	<.1	522	<.1		<.1		<.1	560

Table A.7. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		Length		
		No./h	Length	No./h	Length	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	<.1	275	<.1	275	
	1976	0.1	253	0.2	294	<.1	262	<.1	262	<.1	262	0.1	259	
	1977	1.6	251	0.2	279	0.1	262	0.1	262	0.1	262	0.1	251	
	1978	1.3	250	0.1	252	<.1	259	<.1	259	<.1	259	<.1	246	
	1979	0.2	251	<.1	243	<.1	250	<.1	250	<.1	250	<.1	273	
	1980	<.1	240	0.0		0.0		0.0				<.1	262	
	1981	0.2	254	<.1	268	<.1	250	<.1	250	<.1	250	<.1	257	
	1982	0.7	256	<.1	250	<.1	260	<.1	260	<.1	260	<.1	252	
	1983	0.2	250	<.1	301	<.1	240	<.1	240	<.1	240	<.1	294	
	1984	0.3	259	0.2	322	<.1	274	<.1	274	<.1	274	<.1	270	
	1985	0.3	249	0.1	288	<.1	254	<.1	254	<.1	254	<.1	252	
	1986	0.6	250	0.1	307	<.1	244	<.1	244	<.1	244	<.1	261	
	Hardhead catfish	1975	0.2	316	0.1	342	<.1	340	<.1	340	<.1	340	<.1	320
		1976	0.2	316	<.1	269	0.1	277	0.1	277	0.1	277	0.1	295
1977		0.1	304	0.1	366	<.1	276	<.1	276	<.1	276	<.1	298	
1978		0.1	325	0.1	319	<.1	274	<.1	274	<.1	274	<.1	328	
1979		0.1	334	0.1	336	0.1	321	0.1	321	<.1	321	<.1	325	
1980		0.1	324	0.2	372	<.1	368	<.1	368	0.0	368	0.0	365	
1981		0.2	329	0.1	375	<.1	360	<.1	360	<.1	360	<.1	358	
1982		0.2	330	0.1	369	<.1	369	<.1	369	<.1	369	<.1	308	
1983		0.3	333	0.1	362	<.1	343	<.1	343	<.1	343	<.1	356	
1984		0.2	333	0.1	354	<.1	356	<.1	356	<.1	356	<.1	329	
1985	0.3	329	0.2	380	<.1	357	<.1	357	<.1	357	<.1	369		
1986	0.2	332	0.2	379	<.1	378	<.1	378	<.1	378	<.1	369		

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	
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	181	0.0		0.0		
	1986	<.1	176	<.1	181	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	223	<.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	279	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	<.1		0.0		
1985	0.3	239	<.1	275	0.0		0.0			
1986	0.4	240	<.1	279	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		15.2-cm		Length		
		No./h	Length	No./h	Length	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	424	<.1	390	<.1	390	
	1976	0.3	316	<.1	418	<.1	463	<.1	463	0.0	0.0	0.0	0.0	
	1977	0.1	312	0.2	404	<.1	440	<.1	440	0.0	0.0	<.1	<.1	
	1978	0.1	331	<.1	377	<.1	327	<.1	327	<.1	353	<.1	353	
	1979	0.2	330	0.1	411	<.1	344	<.1	344	<.1	347	<.1	347	
	1980	0.2	319	<.1	426	0.0	460	<.1	460	<.1	460	<.1	460	
	1981	0.2	329	<.1	415	<.1	497	<.1	497	<.1	327	<.1	327	
	1982	0.2	330	<.1	399	<.1	370	<.1	370	<.1	375	<.1	375	
	1983	0.2	331	0.1	396	<.1	373	<.1	373	<.1	386	<.1	386	
	1984	0.2	329	0.1	426	<.1	415	<.1	415	<.1	500	<.1	500	
	1985	0.2	325	<.1	388	<.1	386	<.1	386	<.1	349	<.1	349	
	1986	0.1	327	<.1	418	<.1	505	<.1	505	0.0	0.0	<.1	<.1	
	Other finfishes	1975	0.1	277	0.8	347	0.1	567	0.1	567	<.1	240	<.1	240
		1976	0.3	293	0.4	338	0.2	368	0.2	368	0.1	763	0.1	763
		1977	0.4	269	0.7	334	<.1	373	<.1	373	<.1	1180	<.1	1180
		1978	<.1	284	0.1	350	<.1	248	<.1	248	<.1	453	<.1	453
1979		0.1	294	0.2	312	0.1	371	0.1	371	<.1	455	<.1	455	
1980		0.2	242	0.1	315	0.1	341	0.1	341	<.1	769	<.1	769	
1981		0.4	326	0.5	396	0.1	496	0.1	496	0.1	655	0.1	655	
1982		0.4	324	0.3	360	0.1	464	0.1	464	0.1	617	0.1	617	
1983		0.4	307	1.2	360	0.1	428	0.1	428	<.1	661	<.1	661	
1984		0.2	324	0.4	425	<.1	514	<.1	514	<.1	659	<.1	659	
1985		0.2	337	0.1	376	<.1	651	<.1	651	<.1	696	<.1	696	
1986	0.3	387	0.2	301	0.1	529	0.1	529	<.1	656	<.1	656		

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	1975	2.2	290	2.6	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	354	0.6	416	0.3	477				
	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				

Table A.8. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the upper Laguna Madre system during fall 1975-1986. Blank indicates no measurement taken.

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			
Red drum	1975	0.1	309	<.1	415	0.1	589	0.1	589	0.1	525	
	1976	0.2	319	0.1	387	0.2	557	<.1	557	<.1	567	
	1977	0.2	353	<.1	409	0.0		0.0		0.0		
	1978	0.2	379	<.1	549	<.1	519	<.1	519	<.1	637	
	1979	0.4	351	0.1	450	<.1	518	<.1	518	<.1	610	
	1980	0.1	316	0.3	481	0.1	522	0.1	522	<.1	561	
	1981	0.1	381	0.1	467	0.1	562	0.1	562	0.1	617	
	1982	0.1	335	<.1	480	0.1	562	0.1	562	<.1	648	
	1983	0.1	352	<.1	483	0.1	560	0.1	560	<.1	587	
	1984	0.2	401	0.3	453	0.1	544	0.1	544	<.1	591	
	1985	0.1	328	0.1	472	0.1	584	0.1	584	<.1	535	
	1986	0.1	361	0.2	486	0.1	560	0.1	560	<.1	592	
	Spotted seatrout	1975	0.2	423	<.1	543	<.1	620	<.1	620	0.0	
		1976	0.1	398	<.1	465	<.1	675	<.1	675	0.0	
1977		0.4	373	0.1	485	<.1	612	<.1	612	<.1	588	
1978		0.3	403	0.1	509	<.1	635	<.1	635	<.1	670	
1979		0.1	408	<.1	522	<.1	549	<.1	549	0.0		
1980		0.2	407	<.1	465	<.1	681	<.1	681	0.0		
1981		0.1	403	0.1	511	<.1	577	<.1	577	<.1	518	
1982		0.3	397	0.1	527	<.1	510	<.1	510	<.1	478	
1983		0.2	409	0.1	502	<.1	630	<.1	630	<.1	687	
1984		0.1	382	<.1	512	<.1	620	<.1	620	<.1	505	
1985		0.1	405	<.1	516	<.1	515	<.1	515	<.1	496	
1986	0.2	399	<.1	541	<.1	575	<.1	575	<.1	469		

Table A.8. (Cont'd.).

Species	Year	Mesh size														
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm				
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length			
Black drum	1975	0.1	244	0.1	338	0.5	443	0.5	456	0.1	338	0.5	443	0.5	456	
	1976	<.1	230	0.1	476	0.4	469	0.6	536	0.1	476	0.4	469	0.6	536	
	1977	<.1	210	0.2	327	0.3	419	0.2	468	0.1	327	0.3	419	0.2	468	
	1978	<.1	413	0.1	430	0.5	410	0.2	460	0.1	430	0.5	410	0.2	460	
	1979	<.1	232	0.2	394	0.1	363	0.1	474	0.1	394	0.1	363	0.1	474	
	1980	0.1	254	0.1	347	0.3	391	0.1	473	0.1	347	0.3	391	0.1	473	
	1981	0.1	225	<.1	362	0.2	414	0.2	466	0.1	362	0.2	414	0.2	466	
	1982	<.1	263	0.2	347	0.5	385	0.1	489	0.1	347	0.5	385	0.1	489	
	1983	<.1	254	0.1	368	0.2	412	0.2	471	0.1	368	0.2	412	0.2	471	
	1984	<.1	298	<.1	444	0.2	435	0.1	495	0.1	298	0.2	435	0.1	495	
	1985	0.1	314	0.3	362	0.5	399	0.1	490	0.1	314	0.5	399	0.1	490	
	1986	<.1	228	0.1	359	0.3	419	0.1	477	0.1	228	0.3	419	0.1	477	
	Sheepshead	1975	0.0		<.1	412	0.1	378	0.2	420	0.0	412	0.1	378	0.2	420
		1976	0.0		<.1	233	<.1	358	0.2	383	0.0	233	<.1	358	0.2	383
1977		0.0		<.1		0.1	364	0.1	448	0.0		0.1	364	0.1	448	
1978		0.0		0.0		0.1	345	0.1	401	0.0		0.1	345	0.1	401	
1979		0.0		<.1	358	<.1	368	0.1	416	0.0		<.1	368	0.1	416	
1980		0.0		<.1	345	0.1	361	0.1	422	0.0		0.1	361	0.1	422	
1981		<.1	390	<.1	320	<.1	379	0.1	392	<.1	390	<.1	379	0.1	392	
1982		0.0		<.1	356	<.1	358	0.1	397	0.0		<.1	358	0.1	397	
1983		0.0		<.1	374	0.1	380	0.1	406	0.0		0.1	380	0.1	406	
1984		<.1	404	<.1	432	<.1	398	0.1	428	<.1	404	<.1	398	0.1	428	
1985		0.0		<.1	431	<.1	291	<.1	453	0.0		<.1	291	<.1	453	
1986		0.0		0.0		<.1	332	<.1	444	0.0		<.1	332	<.1	444	

Table A.8. (Cont'd.).

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		Length	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern flounder	1975	<.1	223	0.0		<.1		<.1	510	0.1		<.1	489
	1976	<.1	231	<.1	295	<.1		<.1	330	<.1		<.1	448
	1977	0.0		0.0		<.1		<.1	491	0.0		<.1	
	1978	<.1	235	<.1	362	<.1		<.1	330	<.1		<.1	416
	1979	<.1	209	0.0		<.1		<.1	386	<.1		<.1	457
	1980	<.1	190	0.0		<.1		<.1	342	<.1		<.1	457
	1981	<.1	279	<.1	346	<.1		<.1	416	<.1		<.1	451
	1982	<.1	270	<.1	302	<.1		<.1	376	<.1		<.1	429
	1983	<.1	315	<.1	296	<.1		<.1	355	<.1		<.1	444
	1984	<.1	225	<.1	313	<.1		<.1	358	<.1		<.1	407
	1985	<.1	270	<.1	312	<.1		<.1	357	<.1		<.1	420
	1986	<.1	277	<.1	356	<.1		<.1	380	<.1		<.1	425
	Atlantic croaker	1975	0.1	272	<.1	342	<.1		<.1	420	0.0		0.0
1976		0.1	265	0.3	346	0.1		0.1	361	0.0		0.0	
1977		0.1	277	0.6	349	0.1		0.1	399	0.0		0.0	
1978		0.3	265	0.1	335	0.0		0.0		0.0		0.0	
1979		<.1	271	<.1	361	0.0		0.0		0.0		0.0	
1980		0.1	258	0.1	350	<.1		<.1	270	0.0		0.0	
1981		0.1	260	0.1	347	<.1		<.1	378	<.1		<.1	454
1982		0.2	298	0.3	357	<.1		<.1	384	<.1		<.1	395
1983		<.1	265	<.1	348	<.1		<.1	480	0.0		0.0	
1984		0.1	262	<.1	278	<.1		<.1		0.0		0.0	
1985		0.1	292	<.1	345	<.1		<.1	376	0.0		0.0	
1986		<.1	291	0.1	339	<.1		<.1	295	<.1		<.1	286

Table A.8. (Cont'd.).

Species	Year	Mesh size													
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		Length			
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length		
Gulf menhaden	1975	0.2	263	0.1	317	0.0		0.0		0.0		0.0		0.0	
	1976	<.1	202	0.1	316	<.1		<.1		<.1		<.1		0.0	
	1977	1.1	244	0.5	293	0.1	325	0.1	225	0.0		<.1		<.1	290
	1978	0.2	249	<.1	325	0.0		0.0		0.0		<.1		0.0	
	1979	0.1	256	<.1	288	0.0		0.0		0.0		<.1		<.1	
	1980	0.5	250	0.1	247	0.1	247	0.1		0.1	242	<.1		<.1	242
	1981	0.6	259	0.1	278	0.1	278	<.1		<.1	251	<.1		<.1	252
	1982	<.1	264	<.1	280	<.1	280	<.1		<.1	245	<.1		<.1	237
	1983	<.1	272	<.1	310	<.1	310	<.1		<.1		<.1		0.0	
	1984	0.1	268	<.1	294	<.1	294	<.1		<.1	265	<.1		<.1	280
	1985	<.1	257	0.1	292	0.1	292	<.1		<.1	263	<.1		<.1	269
	1986	<.1	237	<.1	292	<.1	292	0.0		0.0		0.0		0.0	
	Hardhead catfish	1975	0.4	306	0.1	326	<.1		<.1		255	<.1		<.1	245
		1976	0.3	304	0.1	268	<.1		<.1		259	<.1		<.1	267
1977		0.2	305	<.1	325	<.1		<.1		304	<.1		<.1	380	
1978		0.3	292	<.1	240	<.1		<.1		259	<.1		0.0		
1979		0.2	302	0.1	264	0.1		0.1		279	0.0		0.0		
1980		0.2	309	0.1	283	0.1		0.1		262	<.1		<.1	300	
1981		0.2	310	<.1	330	<.1		<.1		289	<.1		<.1	280	
1982		0.4	310	0.1	295	<.1		<.1		285	<.1		<.1	311	
1983		0.8	321	0.2	326	0.1		0.1		284	<.1		<.1	293	
1984		0.6	311	0.2	310	0.1		0.1		284	<.1		<.1	285	
1985		0.5	314	0.2	323	0.2		0.2		281	<.1		<.1	293	
1986	0.3	310	0.1	302	0.1		0.1		271	0.1		<.1	267		

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	1975	<.1	178	0.0		0.0		0.0		0.0		
	1976	0.0	240	<.1		0.0		0.0		0.0		
	1977	<.1	191	0.1		0.0		0.0		0.0		
	1978	<.1	190	<.1		0.0		0.0		0.0		
	1979	<.1	155	0.0		0.0		0.0		0.0		
	1980	<.1	161	0.0		<.1	210	<.1		0.0		
	1981	<.1	217	<.1		0.0		0.0		0.0		
	1982	<.1	207	<.1		<.1	185	<.1		0.0		
	1983	0.1	178	<.1		0.0		0.0		0.0		
	1984	<.1	179	<.1		0.0		0.0		0.0		
	1985	<.1	180	0.0		<.1	195	<.1		0.0		
	1986	<.1	188	0.0		0.0		0.0		0.0		
	Spot	1975	0.2	238	0.2		0.0		0.0		0.0	
		1976	0.1	219	<.1		0.0		0.0		0.0	
		1977	0.1	234	0.1		0.0		0.0		0.0	
		1978	0.3	242	0.1		0.0		0.0		0.0	
1979		0.1	236	<.1		<.1	302	<.1		0.0		
1980		0.2	240	0.0		0.0		0.0		0.0		
1981		0.2	243	<.1		0.0		0.0		0.0		
1982		0.2	239	<.1		0.0		0.0		0.0		
1983		0.1	233	<.1		0.0		0.0		0.0		
1984		<.1	230	0.0		<.1		<.1		0.0	215	
1985	0.4	229	<.1		0.0		0.0		<.1			
1986	0.1	224	<.1		0.0		0.0		0.0			

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	
Striped mullet	1975	0.2	326	0.1	414	0.0		0.0		
	1976	0.1	336	0.6	415	<.1	500	0.0		
	1977	0.1	333	0.2	414	<.1	481	<.1	382	
	1978	<.1	348	<.1	390	0.0		0.0		
	1979	0.1	348	0.5	422	<.1	430	0.0		
	1980	0.2	333	0.1	423	<.1	354	0.0		
	1981	0.2	344	0.1	427	<.1	348	<.1	384	
	1982	0.1	338	<.1	377	<.1	345	0.0		
	1983	0.1	345	0.2	415	0.0		<.1	383	
	1984	0.3	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		
	Other finfishes	1975	0.1	398	0.3	351	0.1	389	<.1	625
		1976	<.1	970	0.1	375	<.1	376	<.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	349	0.1	390	<.1		
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	525	<.1	472	
1985		<.1	381	<.1	355	<.1	407	<.1	367	
1986	<.1	397	<.1	325	<.1	501	<.1	512		

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	1975	1.6	304	1.0	355	0.9	440	0.9	457				
	1976	1.0	323	1.7	393	0.8	458	0.8	495				
	1977	2.0	296	2.2	343	0.7	397	0.5	463				
	1978	1.6	319	0.9	363	0.8	392	0.4	450				
	1979	1.0	322	0.9	394	0.4	370	0.2	468				
	1980	1.7	300	1.0	385	0.8	374	0.3	453				
	1981	1.6	294	0.6	383	0.4	441	0.4	466				
	1982	1.4	317	1.0	369	0.8	400	0.3	459				
	1983	1.5	312	0.6	381	0.4	427	0.4	449				
	1984	1.5	327	0.8	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				

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 fall 1975-1986. Blank indicates no measurement taken.

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Red drum	1975	0.2	365	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	345	0.1	449	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	0.2	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				
Spotted seatrout	1975	0.5	374	0.1	491	0.1	489	<.1	602				
	1976	1.5	374	0.7	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				

Table A.9. (Cont'd.).

Species	Year	Mesh size																
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm						
		No./h	Length	No./h	Length	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	<.1	218	0.2	371	0.2	394	0.6	508	
	1976	0.1	297	0.2	344	0.2	395	1.0	473	0.1	297	0.2	344	1.1	395	1.0	473	
	1977	0.2	241	0.2	360	0.2	403	1.0	482	0.2	241	0.2	360	0.8	403	1.0	482	
	1978	<.1	214	0.1	333	0.1	382	0.1	461	<.1	214	0.1	333	0.2	382	0.1	461	
	1979	<.1	243	0.1	378	0.1	417	0.2	487	<.1	243	0.1	378	0.2	417	0.2	487	
	1980	<.1	236	0.4	346	0.4	405	0.2	496	<.1	236	0.4	346	0.4	405	0.2	496	
	1981	0.1	248	0.1	365	0.1	401	0.2	462	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	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	0.1	288	0.2	365	0.3	432	0.3	479	
	1984	<.1	260	0.1	353	0.1	464	0.1	506	<.1	260	0.1	353	0.1	464	0.2	506	
	1985	<.1	305	0.1	369	0.1	422	0.2	514	<.1	305	0.1	369	0.2	422	0.2	514	
	1986	<.1	271	0.1	380	0.1	438	0.2	491	<.1	271	0.1	380	0.2	438	0.2	491	
	Sheepshead	1975	0.0		0.0		<.1	330	0.1	365	0.0		<.1	330	0.1	365	0.1	365
		1976	0.0		0.1	274	0.1	318	0.2	372	0.0		0.1	318	0.1	372	0.2	372
1977		0.0		<.1	256	0.1	333	0.2	384	0.0		0.1	333	0.1	384	0.2	384	
1978		<.1	162	<.1	276	<.1	306	<.1	349	<.1	162	<.1	276	<.1	306	<.1	349	
1979		0.0		<.1	280	<.1	361	0.1	373	0.0		<.1	280	<.1	361	0.1	373	
1980		<.1	248	0.1	262	0.2	327	0.2	368	<.1	248	0.1	262	0.2	327	0.1	368	
1981		<.1	205	0.1	297	0.1	327	0.1	361	<.1	205	0.1	297	0.1	327	0.1	361	
1982		<.1	266	0.1	289	0.2	333	0.2	357	<.1	266	0.1	289	0.2	333	0.1	357	
1983		<.1	225	<.1	313	0.2	333	0.2	368	<.1	225	<.1	313	0.2	333	0.1	368	
1984		<.1	355	<.1	305	<.1	335	<.1	381	<.1	355	<.1	305	<.1	335	<.1	381	
1985		<.1	324	<.1	304	<.1	352	<.1	413	<.1	324	<.1	304	<.1	352	<.1	413	
1986	<.1	397	<.1	274	<.1	334	<.1	403	<.1	397	<.1	274	<.1	334	<.1	403		

Table A.9. (Cont'd.).

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		Length	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern flounder	1975	<.1	205	<.1	278	0.1	355	0.1	355	<.1	462	<.1	462
	1976	0.0		<.1	362	0.1	387	0.1	387	<.1	419	<.1	419
	1977	0.0		<.1	367	<.1	330	<.1	330	<.1	373	<.1	373
	1978	0.0		<.1	281	<.1	348	<.1	348	0.0		0.0	
	1979	<.1	370	<.1	279	<.1	361	<.1	361	0.1	417	0.1	417
	1980	<.1	224	<.1	628	0.1	374	0.1	374	<.1	446	<.1	446
	1981	<.1	300	<.1	336	<.1	387	<.1	387	<.1	410	<.1	410
	1982	<.1	283	<.1	314	0.1	373	0.1	373	<.1	433	<.1	433
	1983	<.1	363	<.1	356	<.1	377	<.1	377	<.1	424	<.1	424
	1984	<.1	225	<.1	283	<.1	321	<.1	321	<.1	396	<.1	396
	1985	<.1	269	<.1	305	<.1	358	<.1	358	<.1	387	<.1	387
	1986	<.1	344	0.1	321	<.1	380	<.1	380	<.1	419	<.1	419
	Atlantic croaker	1975	<.1	312	0.1	351	0.0		0.0		0.0		0.0
1976		0.1	278	0.2	345	<.1	377	<.1	377	0.0		0.0	
1977		<.1	295	0.1	355	0.0		0.0		<.1	386	<.1	386
1978		<.1	240	<.1	377	0.0		0.0		0.0		0.0	
1979		<.1	273	0.1	344	<.1	404	<.1	404	0.0		0.0	
1980		0.2	273	<.1	366	<.1	406	<.1	406	0.0		0.0	
1981		0.3	295	0.1	348	<.1	375	<.1	375	<.1	276	<.1	276
1982		0.1	296	0.1	354	<.1	393	<.1	393	0.0		0.0	
1983		0.3	286	0.2	348	<.1	435	<.1	435	0.0		0.0	
1984		0.1	262	<.1	312	<.1	237	<.1	237	0.0		0.0	
1985		0.3	269	<.1	338	<.1	330	<.1	330	0.0		0.0	
1986		0.2	282	0.1	340	<.1	308	<.1	308	<.1	302	<.1	302

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	No./h	Length	No./h	Length			
Sand seatrout	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		0.0	325	
	1981	<.1	341	<.1	292	<.1	300	<.1	300	<.1	300	<.1	300	<.1	300	
	1982	<.1	307	<.1	306	<.1	303	<.1	303	<.1	303	<.1	303	<.1	303	
	1983	<.1	325	<.1	237	<.1	361	<.1	361	<.1	361	<.1	361	<.1	361	293
	1984	<.1	323	<.1	288	<.1	296	<.1	296	<.1	296	<.1	296	<.1	296	290
	1985	<.1	332	<.1	329	<.1	301	<.1	301	<.1	301	<.1	301	<.1	301	276
	1986	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	Gafftopsail catfish	1975	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
		1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
1977		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1978		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1979		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1980		0.0		0.0		0.0		0.0		0.0		0.0		0.0	282	
1981		<.1	322	<.1	313	<.1	316	<.1	316	<.1	316	<.1	316	<.1	316	262
1982		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1983		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1984		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1985		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
1986		<.1	346	<.1	371	<.1	511	<.1	511	<.1	511	<.1	511	<.1	511	

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
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	251	<.1	319	<.1	259	0.0	
	1986	<.1	210	<.1	336	<.1	256	<.1	259
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	<.1	314
	1985	0.5	321	0.3	320	0.1	297	<.1	315
	1986	0.4	330	0.3	382	0.1	375	<.1	336

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	No./h	Length	No./h	Length	
Pinfish	1975	0.0		0.0		0.0		0.0		0.0		0.0		
	1976	<.1	220	0.0		0.0		0.0		0.0		0.0		
	1977	0.1	209	0.0		0.0		0.0		0.0		0.0		
	1978	0.0		<.1	230	0.0		0.0		0.0		0.0		
	1979	<.1	218	0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		
	1981	<.1	197	<.1	268	<.1	285	<.1	285	<.1	285	<.1	285	
	1982	<.1	239	0.0		0.0		0.0		0.0		0.0		
	1983	<.1	212	<.1	155	0.0		0.0		0.0		0.0		
	1984	<.1	172	0.0		0.0		0.0		0.0		0.0		
	1985	<.1	182	0.0		0.0		0.0		0.0		0.0		
	1986	<.1	143	0.0		0.0		0.0		0.0		0.0		
	Spot	1975	0.2	236	0.0		0.0		0.0		0.0		0.0	
		1976	0.3	235	0.2	291	0.0		0.0		0.0		0.0	
1977		0.3	245	<.1	292	0.0		0.0		0.0		0.0		
1978		0.1	223	0.0		0.0		0.0		0.0		0.0		
1979		0.1	241	<.1	316	0.0		0.0		0.0		0.0		
1980		<.1	250	0.0		0.0		0.0		0.0		0.0		
1981		0.1	234	<.1	271	0.0		0.0		0.0		0.0		
1982		0.2	242	<.1	294	0.0		0.0		0.0		0.0		
1983		0.1	239	<.1	273	<.1	259	<.1	259	<.1	259	<.1	259	
1984		<.1	231	0.0		0.0		0.0		0.0		0.0		
1985	0.3	231	<.1	257	0.0		0.0		0.0		0.0			
1986	0.2	241	<.1	282	0.0		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	No./h	Length	No./h	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	443	1.6	482				
	1977	2.6	327	1.3	381	1.2	428	1.3	446				
	1978	1.3	336	1.0	374	0.5	465	0.3	562				
	1979	1.4	340	1.0	379	0.6	454	0.5	513				
	1980	1.3	339	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	493	0.5	553				
	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				

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

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	No./h	Length	No./h	Length
Red drum	1986	0.1	467	0.2	465	0.1	562	0.1	704				
Spotted seatrout	1986	0.2	417	0.1	491	<.1	634	<.1	435				
Black drum	1986	<.1	301	0.1	343	0.1	398	<.1	448				
Sheepshead	1986	0.0		<.1	246	<.1	359	<.1	418				
Southern flounder	1986	<.1	293	<.1	257	<.1	325	<.1	415				
Atlantic croaker	1986	0.1	254	<.1	281	<.1	310	0.0					
Sand seatrout	1986	0.0		<.1	277	0.0		0.0					
Gafftopsail catfish	1986	<.1	375	<.1	430	0.1	507	<.1	556				
Gulf menhaden	1986	<.1	249	<.1	366	0.0		0.0					
Hardhead catfish	1986	0.6	311	0.2	341	<.1	258	<.1	355				
Pinfish	1986	0.0		0.0		0.0		0.0					

Table A.10. (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
Spot	1986	<.1	250	0.0	0.0	0.0	0.0	0.0	0.0
Striped mullet	1986	<.1	322	<.1	356	0.0	0.0	0.0	0.0
Other finfishes	1986	1.8	439	0.6	546	0.2	816	0.1	1026
Total finfishes	1986	2.9	371	1.3	461	0.4	580	0.2	765

Table A.11. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Galveston Bay system during spring 1976-1986. Blank indicates no measurement taken.

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	
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	459	0.1	537	0.1	605	
	1983	0.3	423	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	
	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		

Table A.11. (Cont'd.).

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

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	No./h	Length	No./h	Length	
Southern flounder	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		<.1	351	<.1		0.0		0.0		
	1978	<.1	205	<.1		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		
	1980	<.1	218	<.1		<.1	392	<.1		<.1		<.1	451	
	1981	<.1	244	0.0		0.0		0.0		0.0		0.0	484	
	1982	<.1	371	<.1		<.1		<.1		<.1		<.1		
	1983	<.1	356	<.1		<.1		<.1		<.1		<.1	388	
	1984	<.1	358	<.1		<.1		<.1		<.1		<.1	418	
	1985	<.1	350	<.1		<.1		<.1		<.1		<.1	371	
	1986	<.1	241	<.1		<.1		<.1		<.1		<.1	373	
													<.1	378
	Atlantic croaker	1976	0.1	247	0.1		0.0		0.0		0.0		0.0	
1977		0.3	262	<.1		<.1	297	<.1		0.0		0.0		
1978		0.1	247	0.0		0.0		0.0		0.0		0.0		
1979		0.2	264	0.0		0.0		0.0		0.0		0.0		
1980		0.1	268	0.0		0.0		0.0		0.0		0.0		
1981		0.1	266	0.0		0.0		0.0		0.0		0.0		
1982		0.2	267	<.1		<.1		<.1		<.1		<.1	246	
1983		0.2	268	<.1		<.1		<.1		<.1		<.1	305	
1984		0.1	264	<.1		<.1		<.1		<.1		<.1	231	
1985		0.2	270	<.1		<.1		<.1		<.1		<.1	300	
1986	0.3	268	<.1		<.1		<.1		<.1		<.1	0.0		

Table A.11. (Cont'd.).

Species	Year	Mesh size																
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm						
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length					
Sand seatrout	1976	<.1	195	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1979	<.1	225	<.1	218	<.1	206	<.1	206	<.1	206	<.1	206	<.1	206	<.1	206	
	1980	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1981	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1982	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1983	<.1	325	<.1		<.1		<.1	278	<.1	278	<.1	200	<.1	200	<.1	356	
	1984	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	209	
	1985	<.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1986	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	Gafftopsail catfish	1976	0.0		1.9	476	3.2	510	3.2	510	3.2	510	1.3	528	1.3	528	1.3	528
		1977	0.0		<.1	436	0.1	493	0.1	493	0.1	493	<.1	524	<.1	524	<.1	524
1978		0.0		0.0		0.1	514	0.1	514	0.1	514	0.2	557	0.2	557	0.2	557	
1979		<.1	295	0.0		0.1	486	0.1	486	0.1	486	0.2	551	0.2	551	0.2	551	
1980		<.1	370	<.1	478	0.1	466	0.1	466	0.1	466	0.1	550	0.1	550	0.1	550	
1981		<.1	331	<.1	388	0.1	499	0.1	499	0.1	499	0.1	577	0.1	577	0.1	577	
1982		<.1	396	0.1	429	0.1	516	0.1	516	0.1	516	0.2	552	0.2	552	0.2	552	
1983		<.1	376	<.1	469	0.1	536	0.1	536	0.1	536	0.1	568	0.1	568	0.1	568	
1984		<.1	337	<.1	462	0.1	518	0.1	518	0.1	518	0.1	566	0.1	566	0.1	566	
1985		<.1	410	<.1	460	0.1	533	0.1	533	0.1	533	0.1	566	0.1	566	0.1	566	
1986		<.1	316	0.1	432	0.2	528	0.2	528	0.2	528	0.2	558	0.2	558	0.2	558	

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	
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	241	<.1	250	<.1	246	
	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		

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	No./h	Length	No./h	Length	
Pinfish	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		
	1981	0.0		0.0		0.0		0.0		0.0		0.0		
	1982	0.0		0.0		0.0		0.0		0.0		0.0		
	1983	<.1	210	0.0		0.0		0.0		0.0		0.0		
	1984	0.0		0.0		0.0		0.0		0.0		0.0		
	1985	0.0		0.0		0.0		0.0		0.0		0.0		
	1986	0.0		0.0		0.0		0.0		0.0		0.0		
	Spot	1976	0.4	218	0.0		0.0		0.0		0.0		0.0	
		1977	0.1	227	0.0		0.0		0.0		0.0		0.0	
1978		<.1	225	0.0		0.0		0.0		0.0		0.0		
1979		0.0		0.0		0.0		0.0		0.0		0.0		
1980		0.0		0.0		0.0		0.0		0.0		0.0		
1981		<.1	250	0.0		0.0		0.0		0.0		0.0		
1982		<.1	244	0.0		0.0		0.0		0.0		0.0		
1983		0.1	240	0.0		0.0		0.0		0.0		0.0		
1984		<.1	247	0.0		0.0		0.0		0.0		0.0		
1985		<.1	234	0.0		0.0		0.0		0.0		0.0		
1986	<.1	233	0.0		0.0		0.0		0.0		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	No./h	Length	No./h	Length	
Striped mullet	1976	0.1	385	0.0		0.0		0.0		0.0		0.0		
	1977	0.1	316	<.1	361	0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.1	325	<.1	306	0.0		0.0		0.0		0.0		
	1980	0.1	343	0.0		0.0		0.0		0.0		0.0		
	1981	<.1	318	0.0		0.0		0.0		0.0		0.0		
	1982	0.2	338	<.1	397	0.0		0.0		0.0		0.0		
	1983	0.2	340	<.1	411	570		<.1		<.1		<.1		
	1984	0.2	337	<.1	420			0.0		0.0		0.0		
	1985	0.2	325	<.1	428	430		<.1		<.1		<.1	425	
	1986	0.1	330	<.1	432	317		<.1		<.1		0.0		
	Other finfishes	1976	<.1	340	0.1	460	0.1	735	0.1	735	0.1	1140	<.1	1140
		1977	2.0	293	0.5	383	<.1	548	<.1	548	<.1	1005	<.1	1005
1978		1.2	274	0.3	372	<.1	402	<.1	402	0.1	1048	0.1	1048	
1979		0.5	330	0.4	341	<.1	958	<.1	958	0.1	957	0.1	957	
1980		0.2	559	0.1	490	<.1	369	<.1	369	<.1	560	<.1	560	
1981		0.5	309	0.2	379	<.1	725	<.1	725	<.1	489	<.1	489	
1982		0.4	366	0.6	394	0.1	528	0.1	528	0.1	756	<.1	756	
1983		0.3	386	0.6	402	0.1	531	0.1	531	0.1	714	<.1	714	
1984		0.1	352	0.4	388	0.2	502	0.2	502	0.2	673	<.1	673	
1985		0.3	352	0.5	414	0.1	718	0.1	718	0.1	778	<.1	778	
1986	0.4	338	0.6	379	0.1	484	0.1	484	0.1	678	<.1	678		

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	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	307	1.4	352	0.4	386	0.4	593				
	1980	2.5	347	1.8	409	0.4	393	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				

Table A.12. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the East Matagorda Bay system during spring 1976-1986. Blank indicates no measurement taken; ND = no data.

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	
Red drum	1976	ND		ND		ND		ND		
	1977	0.1	374	0.1	462	0.0		0.0		
	1978	0.2	400	0.1	455	<.1	414	<.1	535	
	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	434	0.0		<.1	687	
	1983	0.5	395	0.2	444	0.2	568	0.2	624	
	1984	0.3	407	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	535	
	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	487	<.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	513	0.1	535	<.1	542	
1986	0.7	407	0.2	511	<.1	506	<.1	442		

Table A.12. (Cont'd.).

Species	Year	Mesh size																
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		7.6-cm		10.2-cm		12.7-cm		15.2-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1976	ND		ND		ND		ND		ND		ND		ND		ND		
	1977	0.2	217	0.1	296	<.1	376	<.1	372	<.1	457	0.0		0.1		0.0		
	1978	0.1	315	0.1	297	0.1	372	0.1	372	0.1	429	0.1		0.1		0.1		
	1979	0.1	246	0.4	301	0.1	361	0.1	361	0.1	485	<.1		<.1		<.1		
	1980	0.7	231	0.2	310	0.1	406	0.1	406	0.1	450	<.1		<.1		<.1		
	1981	0.3	242	0.3	308	0.2	417	0.2	417	0.2	459	<.1		<.1		<.1		
	1982	0.3	232	0.3	291	0.1	401	0.1	401	0.1	459	0.1		0.1		0.1		
	1983	0.2	240	1.0	338	1.0	384	0.5	384	1.0	443	0.5		0.5		0.5		
	1984	0.1	242	0.3	343	0.4	395	0.2	395	0.4	479	0.2		0.2		0.2		
	1985	0.1	239	0.1	312	0.1	384	<.1	384	0.1	455	<.1		<.1		<.1		
	1986	0.1	256	0.2	315	0.2	404	<.1	404	0.2	467	<.1		<.1		<.1		
	Sheepshead	1976	ND		ND		ND		ND		ND		ND		ND		ND	
		1977	0.0		0.0		<.1	234	<.1	234	<.1	341	0.0		0.0		0.0	
1978		0.0		0.1	291	0.3	295	0.3	295	0.3	297	<.1		<.1		<.1		
1979		0.0		0.0		0.1	297	0.1	297	0.1	297	<.1		<.1		<.1		
1980		0.0		<.1	239	<.1	342	0.2	342	0.2	375	0.1		0.1		0.1		
1981		0.0		0.1	235	<.1	347	<.1	347	<.1	400	0.1		0.1		0.1		
1982		0.0		0.0		0.0	307	0.0	307	0.0	331	0.0		0.0		0.0		
1983		0.0		0.1	305	0.1	332	0.2	332	0.2	395	0.1		0.1		0.1		
1984		0.0		<.1	270	<.1	357	0.2	357	0.2	389	0.1		0.1		0.1		
1985		0.0		<.1	335	<.1	350	0.1	357	0.1	417	0.1		0.1		0.1		
1986		0.0		<.1	288	<.1		0.1	350	0.1		<.1		<.1		<.1		

Table A.12. (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	No./h	Length	No./h	Length
Southern flounder	1976	ND		ND		ND		ND		ND		ND	
	1977	0.0		<.1	272	0.1	344	<.1	484	<.1	484	<.1	484
	1978	0.0		<.1	323	<.1	302	<.1	508	<.1	508	<.1	508
	1979	<.1		<.1	348	0.1	346	<.1	357	<.1	357	<.1	357
	1980	<.1		0.1	287	<.1	374	<.1	412	<.1	412	<.1	412
	1981	0.0		0.0		<.1	340	0.0		0.0		0.0	
	1982	<.1	287	0.0		<.1	351	0.0		0.0		0.0	
	1983	<.1	317	<.1	291	<.1	345	0.0		0.0		0.0	
	1984	0.0		<.1	420	<.1	353	<.1	424	<.1	424	<.1	424
	1985	0.0		<.1	280	0.1	354	<.1	396	<.1	396	<.1	396
	1986	<.1	268	0.1	301	<.1	328	<.1	415	<.1	415	<.1	415
Atlantic croaker	1976	ND		ND		ND		ND		ND		ND	
	1977	0.1	255	0.0		0.0		0.0		0.0		0.0	
	1978	<.1	270	0.0		0.0		0.0		0.0		0.0	
	1979	<.1	257	0.0		0.0		0.0		0.0		0.0	
	1980	0.1	250	<.1		0.0		0.0		0.0		0.0	
	1981	0.1	250	0.0		0.0		0.0		0.0		0.0	
	1982	0.1	258	0.0		0.0		0.0		0.0		0.0	
	1983	0.1	278	0.0		0.0		0.0		0.0		0.0	
	1984	<.1	322	0.0		0.0		0.0		0.0		0.0	
	1985	<.1	318	0.0		0.0		0.0		0.0		0.0	
	1986	0.1	250	0.0		0.0		0.0		0.0		0.0	

Table A.12. (Cont'd.).

Species	Year	Mesh size			
		7.6-cm No./h Length	10.2-cm No./h Length	12.7-cm No./h Length	15.2-cm No./h 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
Gafftopsail catfish	1976	ND	ND	ND	ND
	1977	0.0	0.1	0.3	0.1
	1978	0.0	0.0	<.1	0.1
	1979	0.0	<.1	0.3	0.1
	1980	0.0	<.1	0.1	0.1
	1981	<.1	0.1	0.1	0.1
	1982	0.0	0.1	0.1	<.1
	1983	<.1	0.0	0.0	<.1
	1984	0.0	0.0	0.0	<.1
	1985	0.0	<.1	<.1	<.1
	1986	<.1	0.1	0.1	<.1
			444	506	568
			409	531	553
			502	531	580
			414	552	587
			417	486	576
				508	603
		357			574
		376			579
		335			494
			438	483	566
			439	511	

Table A.12. (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	No./h	Length	No./h	Length
Gulf menhaden	1976	ND		ND		ND		ND		ND		ND	
	1977	0.2	243	0.4	324	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		<.1	194	<.1		<.1		0.0	
	1979	0.0		0.0		0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0		0.0		0.0	
	1985	<.1	281	0.0		0.0		0.0		0.0		0.0	
1986	<.1	226	0.0		0.0		0.0		0.0		0.0		
Hardhead catfish	1976	ND		ND		ND		ND		ND		ND	
	1977	0.1	298	0.1	317	0.0		0.0		0.0		<.1	333
	1978	0.2	307	0.1	359	0.0		0.0		0.0		0.0	
	1979	0.2	324	0.1	389	<.1	240	<.1		<.1		0.0	
	1980	0.7	314	0.2	337	<.1		<.1		<.1		0.1	304
	1981	0.7	328	0.4	364	<.1	349	<.1		<.1		<.1	315
	1982	1.0	334	0.3	355	0.1	347	0.1		<.1		<.1	349
	1983	0.7	334	0.2	376	<.1	290	<.1		<.1		<.1	295
	1984	0.4	323	0.1	369	<.1	325	<.1		0.0		0.0	
	1985	0.6	315	0.5	367	0.1	346	0.1		<.1		<.1	351
1986	1.1	325	0.6	377	0.1	347	0.1		0.1		0.1	355	

Table A.12. (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	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		
	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	233	0.0		0.0		0.0		
1984		<.1	220	<.1	357	0.0		0.0		
1985		<.1		0.0		0.0		0.0		
1986	<.1	249	0.0		0.0		0.0			

Table A.12. (Cont'd.).

Species	Year	Mesh size															
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		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	1976	ND		ND		ND		ND		ND		ND		ND		ND	
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1978	0.1	327	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1979	0.1	322	<.1	407	0.0		0.0		0.0		0.0		0.0		0.0	
	1980	<.1	338	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1981	0.1	345	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1982	0.2	295	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1983	0.1	342	<.1	395	0.0		0.0		0.0		0.0		0.0		0.0	
	1984	0.2	340	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1985	0.2	329	<.1	386	0.0		0.0		0.0		0.0		0.0		0.0	
	1986	0.2	321	<.1		0.0		0.0		0.0		0.0		0.0		0.0	
Other finfishes	1976	ND		ND		ND		ND		ND		ND		ND		ND	
	1977	0.1	298	0.1	357	<.1		<.1		<.1		<.1		0.1		0.1	854
	1978	0.2	278	<.1	343	<.1		<.1		<.1		<.1		0.0		0.0	
	1979	0.1	327	<.1	448	<.1		<.1		<.1		<.1		<.1		<.1	
	1980	0.2	271	0.0		0.0		0.0		0.0		0.0		<.1		<.1	1120
	1981	0.8	277	<.1		<.1		0.0		0.0		0.0		0.0		0.0	
	1982	0.6	323	0.1	353	<.1		<.1		<.1		<.1		0.0		0.0	
	1983	0.4	297	0.1	310	<.1		<.1		<.1		<.1		<.1		<.1	1020
	1984	0.1	287	0.1	362	0.0		0.0		0.0		0.0		<.1		<.1	
	1985	0.2	434	0.1	430	0.1		0.1		0.1		0.1		0.1		<.1	961
	1986	0.3	271	0.1	356	0.1		0.1		0.1		0.1		<.1		<.1	394

Table A.12. (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	No./h	Length	No./h	Length
Total finfishes	1976	ND		ND		ND		ND		ND		ND	
	1977	2.1	349	1.5	396	0.5	477	0.5	477	0.2	635	0.2	496
	1978	1.2	349	0.5	364	0.5	331	0.5	331	0.2	496	0.2	496
	1979	0.9	336	0.8	381	0.6	451	0.6	451	0.3	502	0.3	502
	1980	2.4	306	0.9	368	0.4	399	0.4	399	0.4	478	0.4	478
	1981	3.5	337	1.4	393	0.4	429	0.4	429	0.2	479	0.2	479
	1982	2.9	337	1.3	394	0.4	475	0.4	475	0.3	499	0.3	499
	1983	3.5	366	1.9	369	1.5	396	1.5	396	0.8	473	0.8	473
	1984	1.5	362	1.0	411	0.8	410	0.8	410	0.4	459	0.4	459
	1985	1.6	351	1.2	404	0.6	472	0.6	472	0.4	547	0.4	547
	1986	2.7	353	1.8	398	0.6	573	0.6	573	0.4	457	0.4	457

Table A.13. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Matagorda Bay system during spring 1976-1986. Blank indicates no measurement taken.

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	
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	407	<.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	620	
	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	373	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	

Table A.13. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1976	0.1	218	0.1	270	0.0	270	0.0	270	0.6	468	0.1	521	
	1977	0.1	241	0.1	533	0.2	533	0.2	533	<.1	663	<.1	498	
	1978	0.1	220	0.1	298	<.1	298	<.1	298	<.1	628	<.1	504	
	1979	0.2	239	0.1	390	0.1	390	0.1	390	<.1	611	<.1	780	
	1980	0.4	269	0.2	328	0.1	328	0.1	328	<.1	673	<.1	640	
	1981	0.2	227	0.1	301	0.1	301	0.1	301	0.1	431	0.1	503	
	1982	0.2	262	0.1	348	0.1	348	0.1	348	0.1	426	0.1	529	
	1983	0.1	248	0.3	331	0.1	331	0.1	331	<.1	511	<.1	482	
	1984	<.1	236	<.1	327	<.1	327	<.1	327	<.1	814	<.1	736	
	1985	0.2	282	0.1	349	0.1	349	0.1	349	<.1	521	<.1	596	
	1986	0.1	260	0.1	341	0.1	341	0.1	341	0.1	420	0.1	420	
	Sheepshead	1976	0.0		0.0	242	0.0	242	0.0	242	<.1	329	<.1	329
		1977	0.0		<.1	278	<.1	278	<.1	278	0.0	420	0.0	420
		1978	0.0		<.1		<.1		<.1		<.1	362	<.1	389
		1979	0.0		0.0	242	0.0	242	0.0	242	<.1	348	<.1	389
		1980	0.0		<.1	536	<.1	536	0.0	536	0.0	381	0.0	381
1981		<.1	370	<.1	276	<.1	276	<.1	276	<.1	314	<.1	398	
1982		<.1	221	<.1	345	<.1	345	0.1	345	<.1	359	<.1	398	
1983		<.1	403	<.1	293	<.1	293	<.1	293	<.1	431	<.1	419	
1984		0.0		<.1	328	<.1	328	<.1	328	<.1	289	<.1	398	
1985		0.0		<.1	329	<.1	329	<.1	329	<.1	353	<.1	433	
1986	0.0		<.1		<.1		<.1		<.1		<.1			

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
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1	265	<.1		<.1	
	1978	0.0		0.0		<.1	391	<.1	
	1979	<.1	217	<.1	292	<.1	346	<.1	315
	1980	0.0		<.1	276	<.1	352	0.0	
	1981	0.0		<.1	270	<.1	339	0.0	
	1982	<.1	310	<.1	291	0.0		0.0	
	1983	<.1	312	<.1	295	<.1	325	<.1	335
	1984	<.1	286	<.1	310	<.1	376	<.1	375
	1985	<.1	279	<.1	312	<.1	315	<.1	383
	1986	<.1	367	<.1	314	<.1	343	<.1	398
							393	<.1	408
Atlantic croaker	1976	0.0		0.0		0.0		0.0	
	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	<.1		0.0		0.0	
1986	<.1	245	0.0		0.0		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	No./h	Length	No./h	Length			
Sand seatrout	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1981	0.0		0.0		0.0		0.0		0.0		0.0		<.1	270	
	1982	0.0		0.0		0.0		0.0		0.0		0.0		<.1	171	
	1983	0.0		<.1	272	<.1		<.1		<.1		205		0.0		
	1984	0.0		<.1	180	<.1		0.0		0.0				0.0		
	1985	0.0		<.1	172	<.1		<.1		<.1				0.0		
	1986	0.0		0.0		0.0		0.0		0.0				0.0		
	Cofftopsail catfish	1976	0.0		0.0		0.0		0.3		0.3		0.3		0.3	580
		1977	0.0		<.1	518	<.1		0.3		0.3		0.5		0.5	569
1978		0.0		0.1	451	0.1		0.4		0.4		0.6		0.6	576	
1979		0.0		<.1	475	<.1		0.1		0.1		0.2		0.2	562	
1980		0.0		0.0		0.0		0.1		0.1		0.4		0.4	561	
1981		<.1	386	0.1	440	0.1		0.3		0.3		0.4		0.4	570	
1982		0.0		<.1	500	<.1		0.1		0.1		0.3		0.3	561	
1983		0.0		<.1	466	<.1		0.1		0.1		0.1		0.1	555	
1984		<.1	502	0.2	477	0.2		0.4		0.4		0.4		0.4	556	
1985		<.1	338	<.1	408	<.1		0.1		0.1		0.2		0.2	554	
1986		<.1	325	<.1	426	<.1		0.1		0.1		0.1		0.1	565	

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	No./h	Length	No./h	Length	
Gulf menhaden	1976	0.1	250	0.0		0.0		0.0		0.0		0.0		
	1977	<.1	245	0.0		<.1	244	<.1		<.1		0.0		
	1978	0.1	245	0.0		<.1	240	<.1		<.1		0.0		
	1979	0.1	251	<.1	250	0.0		0.0		0.0		0.0		
	1980	<.1	256	0.0		<.1	242	<.1		<.1		0.0		
	1981	0.2	255	0.0		0.0		0.0		0.0		0.0		
	1982	<.1	246	<.1	221	<.1	274	<.1		<.1		<.1	262	
	1983	0.1	250	<.1	258	<.1	254	<.1		<.1		<.1	246	
	1984	0.1	249	<.1	265	<.1	238	<.1		<.1		<.1	245	
	1985	0.4	246	<.1	218	<.1	219	<.1		<.1		<.1	193	
	1986	0.1	247	<.1	226	<.1	160	<.1		<.1		<.1	191	
	Hardhead catfish	1976	0.1	285	0.3	315	0.0		0.0		0.0		0.1	250
		1977	1.0	310	0.5	348	0.2	279	0.2		0.2		0.2	301
1978		0.1	306	0.1	284	<.1	276	<.1		<.1		0.0		
1979		0.4	316	0.1	313	0.0		0.0		0.0		0.0		
1980		0.2	314	<.1		<.1	330	<.1		<.1		<.1	333	
1981		1.3	329	0.2	325	0.1	318	0.1		0.0		0.0		
1982		0.6	321	0.2	352	<.1	298	<.1		<.1		<.1	338	
1983		0.3	316	0.1	330	<.1	310	<.1		<.1		<.1	308	
1984		0.6	317	0.3	349	<.1	281	<.1		<.1		<.1	303	
1985		0.8	318	0.3	363	0.1	315	0.1		0.1		<.1	317	
1986	1.0	312	0.4	354	0.1	310	0.1		0.1		<.1	302		

Table A.13. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Pinfish	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		0.0		0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		
	1981	0.0		0.0		0.0		0.0		0.0		0.0		
	1982	<.1		0.0	217	0.0		0.0		0.0		0.0		
	1983	0.0		0.0		0.0		0.0		0.0		0.0		
	1984	0.0		0.0		0.0		0.0		0.0		0.0		
	1985	0.0		0.0		0.0		0.0		0.0		0.0		
	1986	<.1		0.0	150	0.0		0.0		0.0		0.0		
	Spot	1976	0.0		0.0		0.0		0.0		0.0		0.0	
		1977	0.0		0.0		0.0		0.0		0.0		0.0	
		1978	<.1		0.0	232	0.0		0.0		0.0		0.0	
1979		<.1		0.0	250	0.0		0.0		0.0		0.0		
1980		0.0		0.0		0.0		0.0		0.0		0.0		
1981		<.1		0.0	240	0.0		0.0		0.0		0.0		
1982		<.1		0.0	260	0.0		0.0		0.0		0.0		
1983		0.1		0.0	238	0.0		0.0		0.0		0.0		
1984		<.1		0.0	291	<.1		0.0		0.0		0.0		
1985		<.1		0.0	235	0.0		0.0		0.0		0.0		
1986	<.1		0.0	240	0.0		0.0		0.0		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	No./h	Length	No./h	Length	
Striped mullet	1976	0.2	322	0.0		0.0		0.0		0.0		0.0		
	1977	0.2	314	0.0		0.0		0.0		0.0		0.0		
	1978	0.3	330	<.1	409	0.0		0.0		0.0		0.0		
	1979	0.1	341	0.0		0.0		0.0		0.0		0.0		
	1980	0.4	335	<.1	325	0.0		0.0		0.0		0.0		
	1981	<.1	336	0.0		0.0		0.0		0.0		0.0		
	1982	0.2	324	<.1	361	0.0		0.0		0.0		0.0		
	1983	0.1	343	<.1	405	0.0		0.0		0.0		0.0		
	1984	0.2	325	0.1	460	0.0		0.0		0.0		0.0		
	1985	0.3	330	<.1	431	0.0		0.0		0.0		0.0		
	1986	0.2	327	<.1	420	0.0		0.0		0.0		0.0		
	Other finfishes	1976	0.4	271	1.3	386	0.0		0.0		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		937		
1986		0.9	466	0.1	561	0.1		845		0.1		934		

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				
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	321	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	361	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	745				
	1986	2.7	355	1.3	430	0.6	507	0.4	672				

Table A.14. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the San Antonio Bay system during spring 1976-1986. Blank indicates no measurement taken.

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	
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	0.2	391	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	417	0.3	446	0.1	527	<.1	541	
	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		

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	No./h	Length	No./h	Length	
Black drum	1976	0.8	300	0.2	335	0.0		0.0		0.0		0.0		
	1977	0.2	238	0.6	306	0.1		0.1		0.1		0.0		
	1978	<.1	273	<.1	292	0.0		0.0		0.0		<.1	496	
	1979	<.1	290	0.0		<.1		<.1		<.1		<.1	578	
	1980	0.3	236	0.1	299	<.1		<.1		<.1		<.1	470	
	1981	<.1	251	0.2	314	0.1		0.1		0.1		<.1	497	
	1982	0.4	242	0.2	330	0.1		0.1		0.1		0.1	495	
	1983	0.2	248	0.3	345	0.1		0.1		0.1		<.1	464	
	1984	<.1	252	0.1	424	0.1		0.1		0.1		<.1	530	
	1985	<.1	315	<.1	308	<.1		<.1		<.1		<.1	951	
	1986	<.1	271	0.1	303	0.1		<.1		<.1		<.1	402	
	Sheepshead	1976	0.2	302	0.0		0.2		0.2		0.2		0.0	
		1977	0.0		0.0		0.1		0.1		0.1		<.1	386
		1978	0.0		<.1	280	<.1		<.1		<.1		<.1	323
1979		0.0		0.0		0.0		<.1		<.1		0.0		
1980		<.1	234	<.1	253	<.1		<.1		<.1		<.1	448	
1981		0.0		0.1	246	0.1		0.3		0.3		0.2	394	
1982		<.1	295	<.1	290	<.1		<.1		<.1		0.1	398	
1983		<.1	312	<.1	329	<.1		0.1		0.1		<.1	414	
1984		<.1	417	<.1	389	<.1		0.1		0.1		0.1	409	
1985		<.1	346	<.1	358	<.1		<.1		<.1		<.1	440	
1986		<.1	151	<.1	293	<.1		<.1		<.1		<.1	453	

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		
Southern flounder	1976	0.0		0.1	335	0.0		0.0		0.0	
	1977	<.1	208	0.0		0.0		0.0		0.0	
	1978	<.1	219	<.1	303	<.1	311	<.1	311	0.0	
	1979	<.1	350	<.1	305	<.1	374	<.1	374	<.1	422
	1980	<.1	325	<.1	310	<.1	365	<.1	365	0.0	
	1981	<.1	281	<.1	322	0.0		0.0		0.0	
	1982	<.1	225	<.1	279	<.1	339	<.1	339	<.1	369
	1983	<.1	386	<.1	305	<.1	344	<.1	344	<.1	386
	1984	<.1	279	<.1	302	<.1	342	<.1	342	<.1	372
	1985	<.1	319	<.1	314	<.1	332	<.1	332	<.1	357
	1986	<.1	213	<.1	287	<.1	345	<.1	345	<.1	346
	Atlantic croaker	1976	0.2	332	0.0		0.0		0.0		0.0
1977		<.1	226	0.0		0.0		0.0		0.0	
1978		<.1	250	0.0		0.0		0.0		0.0	
1979		0.0		0.0		0.0		0.0		0.0	
1980		<.1	254	0.0		0.0		0.0		0.0	
1981		0.0		0.0		0.0		0.0		0.0	
1982		<.1	267	<.1	285	<.1	232	<.1	232	0.0	
1983		<.1	277	0.0		0.0		0.0		0.0	
1984		<.1	298	0.0		0.0		0.0		0.0	
1985		<.1	227	0.0		0.0		<.1	142	<.1	
1986		<.1	250	0.0		0.0		0.0		0.0	

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

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

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	
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	<.1		0.0		0.0		0.0		
	1985	0.0		0.0		0.0		0.0		
	1986	0.0		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	<.1		0.0		0.0			

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	No./h	Length	No./h	Length
Striped mullet	1976	0.0		0.2	338	0.0		0.0		0.0		0.0	
	1977	0.9	317	0.0		0.0		0.0		0.0		0.0	
	1978	0.2	334	0.0		0.0		0.0		0.0		0.0	
	1979	0.7	341	<.1	424	0.0		0.0		0.0		0.0	
	1980	0.2	323	<.1	429	0.0		0.0		0.0		0.0	
	1981	<.1	331	<.1	372	0.0		0.0		0.0		0.0	
	1982	0.2	330	<.1	362	0.0		0.0		0.0		0.0	
	1983	0.2	338	<.1	400	0.0		0.0		0.0		0.0	
	1984	0.2	333	<.1	407	0.0		0.0		0.0		0.0	
	1985	0.1	327	<.1	398	0.0		0.0		0.0		0.0	
	1986	0.1	324	<.1	449	<.1	415	<.1		<.1		<.1	
Other finfishes	1976	0.1	570	0.0		0.2	502	0.2	502	0.2	760	0.2	760
	1977	0.4	426	0.2	406	0.1	589	0.1	589	0.1	1153	0.1	1153
	1978	1.2	459	0.3	464	0.2	687	0.2	687	<.1	1079	<.1	1079
	1979	0.8	437	0.2	608	0.1	748	0.1	748	0.1	946	0.1	946
	1980	0.4	457	0.2	603	0.1	717	0.1	717	<.1	824	<.1	824
	1981	1.4	391	0.2	470	0.3	635	0.3	635	0.2	865	0.2	865
	1982	0.4	448	0.2	562	0.1	648	0.1	648	0.1	896	0.1	896
	1983	0.6	447	0.2	571	0.1	695	0.1	695	0.1	761	0.1	761
	1984	0.6	514	0.2	552	0.1	714	0.1	714	0.1	848	0.1	848
	1985	0.2	679	0.2	761	0.2	907	0.2	907	0.1	1103	0.1	1103
	1986	0.1	464	<.1	492	<.1	806	0.1	806	<.1	962	<.1	962

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	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	559	0.4	565				

Table A.15. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Arkansas Bay system during spring 1976-1986. Blank indicates no measurement taken.

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	
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	421	<.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	
	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		

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	
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	
	Sheepshead	1976	0.0		0.0		0.1	281	0.5	352
		1977	0.0		<.1	230	<.1	235	0.0	448
		1978	0.0		0.1	264	<.1	343	0.1	323
		1979	0.0		<.1		0.1	317	0.1	377
		1980	<.1	265	<.1	249	<.1	374	0.1	399
1981		<.1	224	0.1	324	0.1	305	0.1	362	
1982		<.1	182	<.1	301	<.1	337	<.1	386	
1983		<.1	406	<.1	296	<.1	340	<.1	399	
1984		0.0		<.1	401	<.1	404	<.1	393	
1985		<.1	381	0.0		<.1	363	<.1	444	
1986	0.0		<.1	253	<.1	285	<.1			

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		
Sand seatrout	1976	0.0		0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0		0.0	230
	1982	0.0		0.0		0.0		0.0		0.0	
	1983	0.0		0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0		0.0	
	1985	0.0		0.0		0.0		0.0		0.0	
	1986	0.0		0.0		0.0		0.0		0.0	
Gafftopsail catfish	1976	0.0		0.0		0.0		0.0		0.0	
	1977	<.1	335	0.9	473	1.6	514	0.5	553	0.5	550
	1978	0.0		0.0		<.1	540	<.1	574	0.2	572
	1979	0.0		0.1	439	0.2	537	0.2	572	0.2	561
	1980	0.0		0.0		0.2	531	0.2	572	0.7	573
	1981	0.0		0.1	474	0.6	530	0.5	575	0.5	577
	1982	<.1	420	0.1	500	0.3	528	0.4	577	0.2	576
	1983	<.1	565	0.2	466	0.4	528	0.2	577	0.1	559
	1984	<.1	548	<.1	481	0.2	540	0.2	576	0.1	
	1985	<.1	386	<.1	425	<.1	548	<.1	559	0.1	
	1986	0.0		0.1	456	0.2	530	0.2		0.1	

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	No./h	Length	No./h	Length
Gulf menhaden	1976	0.0		0.0		0.0		0.0		0.0		0.0	
	1977	0.3	247	0.0		0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0		0.0		0.0	
	1979	0.0		0.0		<.1	247	<.1		<.1		<.1	230
	1980	<.1	271	0.0		0.0		0.0		0.0		0.0	
	1981	0.1	255	<.1	256	<.1		<.1	252	<.1		<.1	247
	1982	0.1	253	<.1	250	<.1		<.1	226	<.1		<.1	239
	1983	0.1	245	<.1	255	<.1		<.1	223	<.1		<.1	245
	1984	0.2	249	<.1	252	<.1		<.1	228	<.1		<.1	254
	1985	0.3	251	<.1	224	<.1		<.1	250	<.1		<.1	254
	1986	0.2	245	<.1	254	<.1		<.1	251	<.1		0.0	
	Hardhead catfish	1976	1.6	333	0.4	376	0.2	290	0.2	290	0.1	265	0.1	265
1977		0.2	293	0.2	324	<.1	264	<.1	264	0.0		0.0	
1978		0.2	341	0.1	356	0.0		0.0		0.0		0.0	
1979		0.3	315	0.1	369	<.1	279	<.1	279	<.1	365	<.1	365
1980		0.2	328	0.1	370	<.1	332	<.1	332	<.1	399	<.1	399
1981		0.5	331	0.3	370	<.1	353	<.1	353	<.1	334	<.1	334
1982		0.6	321	0.4	364	0.1	312	0.1	312	<.1	314	<.1	314
1983		0.4	325	0.4	365	0.1	346	0.1	346	<.1	343	<.1	343
1984		0.6	323	0.5	368	0.1	350	0.1	350	<.1	337	<.1	337
1985		0.4	334	0.4	368	0.1	313	0.1	313	<.1	325	<.1	325
1986		0.3	323	0.3	280	<.1	349	<.1	349	<.1	331	<.1	331

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	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		
	Other finfishes	1976	0.4	540	0.1	601	0.2	250	0.3	535
		1977	0.1	575	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	

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	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	664
	1986	1.7	332	0.8	442	0.4	449	0.3	650

Table A.16. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the Corpus Christi Bay system during spring 1976-1986. Blank indicates no measurement taken.

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm		
		No./h	Length	No./h	Length	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		0.0		0.0		
	1977	0.1	354	0.2	441	<.1	388	<.1		0.0		0.0		
	1978	0.0		0.3	437	0.0		0.0		<.1		<.1	655	
	1979	<.1	432	0.2	466	<.1	415	<.1		<.1		<.1	689	
	1980	0.3	383	0.5	430	0.1	476	0.1		0.1		0.1	638	
	1981	0.1	357	0.1	449	<.1	534	<.1		<.1		<.1	502	
	1982	0.1	426	0.3	451	0.1	513	0.1		<.1		<.1	568	
	1983	0.2	372	0.2	426	<.1	524	<.1		<.1		<.1	536	
	1984	0.2	406	0.4	435	0.2	524	0.2		0.2		0.1	491	
	1985	0.1	429	0.4	452	<.1	549	<.1		<.1		<.1	518	
	1986	0.2	390	0.3	452	0.1	557	0.1		0.1		<.1	626	
	Spotted seatrout	1976	0.3	322	0.1	496	0.0		0.0		0.0		0.0	
		1977	0.3	368	<.1	310	<.1	505	<.1		0.0		0.0	
1978		0.3	353	0.2	524	<.1	596	<.1		<.1		<.1	624	
1979		0.1	429	0.1	533	0.1	635	0.1		<.1		<.1	624	
1980		0.1	435	0.1	539	0.1	561	0.1		<.1		<.1	499	
1981		0.3	371	0.2	515	<.1	619	<.1		<.1		<.1	672	
1982		0.4	409	0.3	521	0.1	590	0.1		<.1		<.1	571	
1983		0.3	407	0.2	528	0.1	610	0.1		<.1		<.1	610	
1984		0.1	409	0.1	508	<.1	541	<.1		<.1		<.1	506	
1985		0.2	393	0.1	549	0.1	511	0.1		0.1		<.1	564	
1986		0.6	381	0.2	534	0.1	557	0.1		0.1		<.1	566	

Table A.16. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1976	0.0		0.4	300	0.0		0.0		0.3		0.3	440	
	1977	<.1	225	0.2	291	0.2		0.2	386	0.1		0.1	427	
	1978	<.1	245	0.2	293	0.2		0.2	373	0.0		0.0		
	1979	<.1	276	<.1	289	0.1		0.1	416	<.1		<.1	473	
	1980	<.1	251	0.1	294	0.1		0.1	395	<.1		<.1	476	
	1981	<.1	239	<.1	308	<.1		<.1	387	<.1		<.1	572	
	1982	0.1	245	0.1	321	0.2		0.2	376	<.1		<.1	465	
	1983	0.1	240	0.3	329	0.3		0.3	389	0.2		0.2	458	
	1984	<.1	348	0.1	370	0.2		0.2	416	0.1		0.1	463	
	1985	<.1	284	0.1	304	<.1		<.1	340	<.1		<.1	467	
	1986	<.1	291	0.2	304	0.1		0.1	401	0.2		0.2	466	
	Sheepshead	1976	0.0		0.0		0.0		0.0		0.0		0.0	336
		1977	0.0		0.0		0.1		0.1	252	0.1		0.1	356
		1978	0.0		<.1	350	<.1		<.1	321	0.2		0.2	378
1979		0.0		<.1	283	0.2		0.2	352	0.3		0.3	327	
1980		0.0		<.1	266	0.1		0.1	333	<.1		<.1	381	
1981		<.1	242	<.1	288	<.1		<.1	318	<.1		<.1	366	
1982		<.1	261	<.1	318	0.1		0.1	327	0.1		0.1	404	
1983		<.1	303	<.1	317	0.2		0.2	352	0.1		0.1	389	
1984		0.0		<.1	284	0.1		0.1	372	0.1		0.1	446	
1985		<.1	415	<.1	420	0.1		0.1	399	0.1		0.1	446	
1986		<.1	338	<.1	378	<.1		<.1	375	<.1		<.1	407	

Table A.16. (Cont'd.).

Species	Year	Mesh size											
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern flounder	1976	0.0		0.0		0.0		0.0		0.0		0.0	
	1977	0.0		<.1		0.0		0.0		<.1		<.1	430
	1978	0.0		<.1	293	<.1		<.1	369	<.1		0.0	
	1979	<.1		<.1	317	<.1		<.1	372	<.1		0.1	409
	1980	0.0		<.1	271	<.1		<.1	362	<.1		<.1	312
	1981	<.1		<.1	312	<.1		<.1	390	<.1		0.0	
	1982	<.1	266	<.1	319	<.1		<.1	376	<.1		<.1	420
	1983	<.1	421	<.1	319	<.1		<.1	384	<.1		<.1	414
	1984	<.1	239	<.1	401	0.1		0.1	371	<.1		<.1	401
	1985	<.1	282	<.1	306	<.1		<.1	365	<.1		<.1	408
	1986	<.1	376	<.1	365	<.1		<.1	393	<.1		<.1	433
Atlantic croaker	1976	1.0	277	0.0		0.0		0.0		0.0		0.0	
	1977	0.9	261	0.1	300	0.0		0.0		0.0		0.0	
	1978	0.1	253	0.0		0.0		0.0		0.0		<.1	487
	1979	0.1	265	0.0		0.0		0.0		0.0		0.0	
	1980	0.1	268	<.1	314	<.1		<.1		<.1		0.0	
	1981	0.1	269	<.1	221	<.1		0.0		0.0		0.0	
	1982	0.1	276	<.1	356	<.1		<.1	250	<.1		<.1	223
	1983	0.2	261	<.1	341	<.1		<.1		<.1		0.0	
	1984	<.1	279	<.1	305	<.1		<.1	185	<.1		0.0	
	1985	0.1	264	<.1	320	<.1		<.1	223	<.1		0.0	
	1986	0.3	254	<.1	335	<.1		0.0		0.0		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	
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		<.1	284	
	1979	0.0		0.0		0.0		0.0		
	1980	<.1	312	0.0		0.0		0.0		
	1981	0.0		0.0		<.1	268	<.1	275	
	1982	<.1	333	270	<.1	381		<.1	242	
	1983	<.1	391	291	<.1	247		0.0		
	1984	0.0		0.0		0.0		0.0		
	1985	0.0		0.0		0.0		0.0	231	
	1986	0.0		0.0		0.0		<.1		
	Cofftopsail catfish	1976	0.0		0.0		0.0		0.0	
		1977	0.0		0.0		0.0		0.0	515
1978		0.0		<.1	357	0.0		<.1	554	
1979		0.0		0.0		0.1	541	0.2	599	
1980		0.0		0.0		<.1	578	0.1	548	
1981		0.0		<.1	472	0.1	520	<.1	561	
1982		0.0		<.1	453	0.1	523	0.1	582	
1983		0.0		<.1	448	<.1	504	0.1	564	
1984		0.0		<.1	439	0.1	506	0.1	553	
1985		0.0		<.1	383	<.1	493	<.1	563	
1986		<.1	376	470	<.1	525	0.1	0.2		

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	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	
	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	293	0.2	331	<.1	292	<.1	364	
1979		0.3	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	

Table A.16. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		17.8-cm		20.3-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Pinfish	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		
	1978	0.0		0.0		0.0		0.0		0.0		0.0		
	1979	0.0		<.1	305	0.0		0.0		0.0		0.0		
	1980	0.0		0.0		0.0		0.0		0.0		0.0		
	1981	0.0		0.0		0.0		0.0		0.0		0.0		
	1982	<.1	227	<.1	240	<.1	281	<.1	228	<.1	228	<.1	228	
	1983	<.1	241	<.1	274	<.1	239	<.1	239	<.1	239	<.1	239	
	1984	<.1	162	0.0		0.0		0.0		0.0		0.0		
	1985	<.1	178	0.0		0.0		0.0		0.0		0.0		
	1986	<.1	168	0.0		0.0		0.0		0.0		0.0		
	Spot	1976	0.3	233	0.0		0.0		0.0		0.0		0.0	
		1977	0.6	219	0.0		0.0		0.0		0.0		0.0	
		1978	0.2	214	<.1		0.0		0.0		0.0		0.0	
1979		<.1	233	0.0		0.0		0.0		0.0		0.0		
1980		0.1	247	0.0		0.0		0.0		0.0		0.0		
1981		<.1	221	<.1	223	<.1	223	<.1	223	<.1	223	<.1	223	
1982		0.1	234	<.1	231	<.1	231	<.1	227	<.1	227	<.1	227	
1983		0.1	233	<.1	267	<.1	267	<.1	267	<.1	267	<.1	267	
1984		0.1	248	0.0		0.0		0.0		0.0		0.0		
1985		<.1	220	0.0		0.0		0.0		0.0		0.0		
1986	0.1	216	<.1	204	<.1	204	<.1	204	<.1	204	<.1	204		

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	No./h	Length	No./h	Length		
Striped mullet	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1977	0.1	340	0.0		0.0		0.0		0.0		0.0		0.0	
	1978	0.1	316	<.1	446	<.1		<.1	419	<.1		<.1		<.1	
	1979	<.1	318	<.1	427	0.0		0.0		0.0		0.0		0.0	
	1980	0.1	309	<.1	345	0.0		0.0		0.0		0.0		0.0	
	1981	<.1	274	0.1	335	0.0		0.0		0.0		0.0		0.0	
	1982	0.2	338	<.1	402	0.0		0.0		0.0		<.1		<.1	393
	1983	0.1	339	<.1	418	<.1	334	<.1		<.1		<.1		<.1	409
	1984	0.1	331	<.1	381	0.0		0.0		0.0		0.0		0.0	
	1985	0.1	335	<.1	405	0.0		0.0		0.0		0.0		0.0	
	1986	0.1	331	<.1	398	<.1	395	<.1		<.1		<.1		<.1	
Other finfishes	1976	0.4	298	1.6	354	0.4		0.4		0.4		0.1		0.1	362
	1977	0.2	277	0.4	344	0.1		0.1		0.1		<.1		<.1	790
	1978	0.4	265	0.3	323	0.1		0.1		0.1		0.0		0.0	
	1979	0.1	319	0.2	341	0.0		0.0		0.0		<.1		<.1	456
	1980	0.1	298	0.1	336	<.1		<.1		<.1		<.1		<.1	421
	1981	0.2	295	0.2	336	0.1		0.1		0.1		0.0		0.0	
	1982	0.2	398	0.3	418	0.1		0.1		0.1		0.1		0.1	553
	1983	0.5	416	0.5	443	0.1		0.1		0.1		<.1		<.1	579
	1984	0.2	403	0.8	354	0.1		0.1		0.1		0.1		0.1	561
	1985	0.2	329	0.1	384	0.1		0.1		0.1		0.1		<.1	691
	1986	0.3	309	0.3	353	0.1		0.1		0.1		0.1		<.1	570

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
Total finfishes	1976	2.9	299	2.3	362	0.5	363	0.5	357
	1977	4.6	271	1.7	324	0.9	341	0.4	372
	1978	1.6	284	1.3	379	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	1.6	402	0.8	451	0.6	485

Table A.17. Mean catch rates (No./h) and mean total lengths (mm) by mesh size for selected fishes caught with gill nets in the upper Laguna Madre system during spring 1976-1986. Blank indicates no measurement taken.

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

Table A.17. (Cont'd.).

Species	Year	Mesh size												
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm		
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	
Black drum	1976	0.0		0.3	329	0.2	367	<.1		<.1	455			
	1977	0.0		0.1	305	0.2	386	0.1		0.1	473			
	1978	0.0		<.1	294	<.1	376	0.1		0.1	454			
	1979	0.0		0.1	299	0.1	418	0.1		0.1	478			
	1980	<.1	346	0.3	333	0.3	407	0.1		0.1	477			
	1981	<.1	295	0.2	347	0.6	389	0.3		0.3	441			
	1982	<.1	250	0.4	307	0.1	425	0.2		0.2	476			
	1983	<.1	282	0.3	355	0.5	401	0.2		0.2	457			
	1984	<.1	312	0.2	395	0.2	423	0.2		0.2	499			
	1985	<.1	262	0.5	305	0.2	383	0.1		0.1	508			
	1986	<.1	341	0.2	344	0.3	428	0.2		0.2	487			
	Sheepshead	1976	0.0		0.0		0.1	339	0.1		0.1	395		
		1977	0.0		0.0		<.1	336	<.1		0.1	387		
		1978	0.0		0.0		0.1	366	0.1		0.1	416		
1979		0.0		0.0		<.1	360	<.1		0.1	375			
1980		0.0		<.1	352	0.1	361	0.1		0.1	378			
1981		0.0		<.1	313	<.1	350	<.1		0.1	428			
1982		0.0		<.1	327	0.1	351	0.1		0.1	373			
1983		<.1	405	<.1	329	0.1	376	0.2		0.2	411			
1984		<.1	378	<.1	298	<.1	352	<.1		<.1	406			
1985		<.1	438	0.0		<.1	406	<.1		<.1	433			
1986		0.0		<.1	313	<.1	416	<.1		<.1	436			

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	No./h	Length	No./h	Length	
Southern flounder	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.0		0.0		0.0		0.0		0.0		
	1978	<.1	237	<.1	365	0.0		0.0		<.1		<.1	411	
	1979	<.1	216	<.1	351	0.0		0.0		<.1		<.1	409	
	1980	<.1	230	<.1	262	0.0		0.0		<.1		<.1	477	
	1981	<.1	222	0.1	345	<.1		<.1	383	<.1		<.1		
	1982	<.1	229	<.1	325	<.1		<.1	369	<.1		<.1	397	
	1983	<.1	261	<.1	333	<.1		<.1	371	<.1		<.1	431	
	1984	0.0		<.1	316	<.1		<.1	323	<.1		<.1	443	
	1985	<.1	246	<.1	333	<.1		<.1	374	<.1		<.1	418	
	1986	<.1	274	<.1	300	<.1		<.1	387	<.1		<.1	446	
	Atlantic croaker	1976	0.0		0.0		0.0		0.0		0.0		0.0	
		1977	0.2	276	0.2	326	0.0		0.0		0.0		0.0	
1978		0.1	261	<.1	325	0.0		0.0		0.0		0.0		
1979		0.1	283	0.1	314	0.0		0.0		0.0		0.0		
1980		0.2	300	0.1	334	0.0		0.0		0.0		0.0		
1981		0.2	283	0.2	322	<.1		<.1	280	<.1		<.1	290	
1982		0.1	295	0.1	331	<.1		<.1	336	<.1		0.0		
1983		0.1	281	<.1	321	<.1		<.1	340	<.1		<.1	240	
1984		<.1	307	<.1	342	<.1		<.1	172	<.1		0.0		
1985		0.2	266	<.1	276	<.1		<.1	256	<.1		<.1	272	
1986		0.2	289	<.1	322	<.1		<.1	288	<.1		0.0		

Table A.17. (Cont'd.).

Species	Year	Mesh size																
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		Length						
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length					
Gulf menhaden	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		<.1	282	0.0		0.0		0.0		0.0		0.0		0.0		
	1978	1.2	264	<.1	268	<.1		<.1		<.1		<.1		<.1		<.1	280	
	1979	0.2	266	0.0		<.1		<.1		<.1		<.1		<.1		<.1		
	1980	0.6	266	0.1	296	0.1		<.1		<.1		<.1		<.1		<.1		
	1981	0.0		<.1	269	<.1		<.1		<.1		<.1		<.1		<.1	185	
	1982	0.3	261	0.1	297	0.1		<.1		<.1		<.1		<.1		<.1	249	
	1983	<.1	272	<.1	336	<.1		<.1		<.1		<.1		<.1		<.1	298	
	1984	<.1	263	<.1	305	<.1		<.1		<.1		<.1		<.1		<.1	280	
	1985	<.1	237	<.1	257	<.1		<.1		<.1		<.1		<.1		<.1		
	1986	<.1	248	<.1	262	<.1		0.0		0.0		0.0		0.0		0.0		
	Hardhead catfish	1976	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
		1977	0.5	290	0.2	307	0.2		0.1		0.1		0.1		0.1		0.1	253
1978		0.7	291	0.2	291	0.2		0.1		0.1		0.1		0.1		0.1	249	
1979		0.2	306	0.1	298	0.1		0.1		0.1		0.1		0.1		0.1	277	
1980		0.2	283	<.1	310	<.1		<.1		<.1		<.1		<.1		<.1	322	
1981		0.8	299	0.1	261	0.1		<.1		<.1		<.1		<.1		<.1	311	
1982		0.7	307	0.2	349	0.2		<.1		<.1		<.1		<.1		<.1	289	
1983		1.3	317	0.4	316	0.4		0.1		0.1		0.1		0.1		0.1	315	
1984		1.0	314	0.3	331	0.3		0.1		0.1		0.1		0.1		0.1	279	
1985		0.9	307	0.3	316	0.3		0.1		0.1		0.1		0.1		0.1	284	
1986		0.5	311	0.2	348	0.2		0.1		0.1		0.1		0.1		0.1	294	

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	
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	253	<.1	272	0.0		0.0	
	1983	<.1	184	331	<.1	375	0.0		0.0	
	1984	0.0		310	0.0		0.0		0.0	
	1985	<.1	181	144	0.0		0.0		0.0	
	1986	<.1	207	297	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	0.0		0.0		
1983		0.2	228	<.1	271	0.0		0.0		
1984		<.1	233	<.1	261	<.1	222	0.0	212	
1985		0.1	219	<.1	242	0.0		<.1		
1986	0.1	234	<.1	325	0.0		0.0			

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	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	389	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	508	0.3	493				

Table A.18. 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 1976-1986. Blank indicates no measurement taken.

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	
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	511	
	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	
	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	597
		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	614	<.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		

Table A.18. (Cont'd.).

Species	Year	Mesh size														
		7.6-cm		10.2-cm		12.7-cm		15.2-cm		15.2-cm		15.2-cm				
		No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length	No./h	Length			
Black drum	1976	0.0		0.2	315	0.6	397	0.2	425							
	1977	<.1	437	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	481							
	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	<.1	500							
	1986	<.1	292	0.1	355	0.1	480	0.2	507							
	Sheepshead	1976	0.0		0.0		0.3	317	0.0	422						
		1977	0.0		0.0		<.1	314	<.1	372						
		1978	<.1	342	<.1	375	0.1	343	0.1	317						
		1979	0.0		<.1	323	0.1	365	0.1	381						
		1980	0.0		<.1	219	0.1	333	0.2	336						
1981		0.0		<.1	270	0.2	323	0.3	368							
1982		<.1	276	0.1	299	0.3	323	0.2	376							
1983		<.1	300	0.1	305	0.2	332	0.1	380							
1984		0.0		<.1	300	0.1	339	0.1	371							
1985		0.0		<.1	306	<.1	349	<.1	371							
1986		<.1	534	<.1	295	<.1	344	<.1	406							

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	No./h	Length	No./h	Length	
Southern flounder	1976	0.0		0.0		0.2	350	0.0		0.0		0.0		
	1977	0.0		0.0		<.1	323	<.1		<.1		<.1	388	
	1978	<.1	216	<.1	363	<.1	335	<.1		<.1		<.1	467	
	1979	<.1	328	0.1	341	0.1	385	0.1		<.1		<.1	436	
	1980	<.1	299	<.1	345	<.1	361	<.1		<.1		<.1	518	
	1981	<.1	270	<.1	287	<.1	402	<.1		<.1		<.1	417	
	1982	<.1	310	0.1	321	<.1	356	<.1		<.1		<.1	445	
	1983	<.1	350	<.1	330	<.1	372	<.1		<.1		<.1	417	
	1984	<.1	204	0.0		<.1	386	<.1		<.1		<.1	470	
	1985	<.1	342	<.1	315	<.1	346	<.1		<.1		<.1	404	
	1986	<.1	379	<.1	326	0.1	361	<.1		<.1		<.1	434	
	Atlantic croaker	1976	0.2	285	0.5	345	0.1	360	0.1		0.0		0.0	
		1977	0.2	267	<.1	300	0.0		0.0		0.0		0.0	
		1978	0.1	275	0.0		0.0		0.0		0.0		0.0	
1979		0.1	263	0.1	350	<.1	412	<.1		0.0		0.0		
1980		0.1	277	<.1	354	0.0		0.0		0.0		0.0		
1981		0.1	277	0.0		0.0		0.0		0.0		0.0		
1982		0.2	300	0.2	367	<.1	423	<.1		<.1		<.1	343	
1983		0.2	274	0.1	374	<.1	432	<.1		<.1		0.0		
1984		<.1	263	<.1	328	0.0		0.0		0.0		0.0		
1985		0.1	260	<.1	355	<.1	210	<.1		<.1		0.0		
1986		0.1	288	<.1	289	0.0		0.0		0.0		0.0		

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	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	219	0.0		0.0		0.0		
	1983	<.1	201	<.1	190	<.1		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		
	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		

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				
Total	1976	2.9	389	2.2	428	1.7	442	0.3	507				
finfishes	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	421	0.4	522				

Appendix B. Hydrological summary for gill net and bag seine.

Table B.1. Mean surface salinity (o/oo) at sampled gill net sites by bay system during spring and fall, 1975-1986. ND = no data.

Year	Bay System													
	East				Corpus Christi				Lower					
	Sabine	Galveston	Matagorda	San Antonio	Aransas	Christi	Laguna Madre	Coastwide	Sabine	Galveston	Matagorda	San Antonio		
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1976	ND	12.2	15.9	ND	14.0	19.0	20.8	18.0	16.0	16.1	18.0	16.1	35.0	22.7
1977	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
1978	ND	20.6	22.0	22.2	18.9	22.0	14.4	24.0	13.6	30.0	25.8	41.2	38.6	41.2
1979	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
1980	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
1981	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
1982	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
1983	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
1984	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
1985	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
1986	11.7	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

Table B.2. Mean surface water temperature (C) at sampled gill net sites by bay system during spring and fall, 1975-1986. ND = no data.

Year	Bay System													
	East				Corpus Christi				Lower					
	Sabine	Galveston	Matagorda	San Antonio	Aransas	Christi	Laguna Madre	Coastwide	Sabine	Galveston	Matagorda	San Antonio		
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1976	ND	28.5	17.2	ND	28.5	24.9	21.1	28.0	24.2	29.0	24.1	26.0	24.2	29.0
1977	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
1978	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
1979	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
1980	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
1981	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
1982	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
1983	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
1984	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
1985	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
1986	27.0	26.2	26.6	27.2	23.6	26.5	25.2	27.5	25.2	28.0	24.2	26.5	24.5	26.4

Table B.3. Mean surface dissolved oxygen (ppm) at sampled gill net sites by bay system during spring and fall, 1975-1986. ND = no data.

Year	Bay system																		
	East				San Antonio				Arkansas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	Sabine	Galveston	Matagorda	Matagorda	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	ND	11	ND	ND	9	9	ND	8	ND	13	ND	9	ND	9	ND	7	ND	10
1976	ND	ND	10	10	9	9	9	9	9	9	10	10	10	10	10	10	9	9	9
1977	ND	ND	7	8	8	9	10	9	8	9	10	8	10	8	7	8	7	8	9
1978	ND	ND	11	10	9	11	9	9	9	8	9	8	8	6	7	8	7	9	9
1979	ND	ND	10	10	8	10	11	10	10	9	9	8	8	8	7	10	9	10	9
1980	ND	ND	10	9	8	8	10	8	5	7	9	6	8	6	8	10	11	8	8
1981	ND	ND	8	9	8	8	10	10	6	7	8	7	7	7	7	7	9	8	9
1982	ND	ND	9	10	10	9	9	8	4	7	9	8	8	7	6	8	8	8	8
1983	ND	ND	8	9	8	8	8	9	7	7	8	9	8	7	7	7	8	8	8
1984	ND	ND	9	10	9	8	8	7	9	9	8	9	9	7	7	8	9	9	9
1985	ND	ND	6	8	10	10	9	8	10	9	9	8	9	7	8	9	9	8	9
1986	11	10	9	9	10	10	10	9	8	13	9	8	9	7	9	8	9	9	10

Table B.4. Mean surface turbidity (JTU) at sampled gill net sites by bay system during spring and fall, 1975-1986. ND = no data.

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

Table B.5. Mean surface salinity (o/oo) at sampled bag seine sites by bay system during 1986. ND = no data.

Month	Bay system											
	East					Upper					Lower	
	Sabine	Galveston	Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide	
Jan	5.4	16.4	22.2	20.9	21.4	19.0	28.9	32.7	33.6	22.9		
Feb	6.6	16.7	24.3	22.6	16.1	20.3	29.3	33.1	29.9	22.5		
Mar	6.6	16.7	24.2	23.2	16.0	23.2	28.1	34.2	33.5	23.4		
Apr	11.5	18.5	24.2	24.9	20.9	23.0	29.8	40.0	35.9	25.8		
May	13.6	20.7	21.0	19.9	20.0	23.0	31.8	40.0	32.6	25.2		
Jun	7.0	9.0	21.8	14.1	9.4	21.7	35.2	36.5	30.7	20.0		
Jul	6.9	11.5	21.2	12.2	19.0	23.7	38.6	41.6	39.0	23.5		
Aug	16.2	21.5	23.8	23.1	17.8	30.1	36.2	47.1	36.2	28.4		
Sep	18.8	21.6	21.1	21.6	23.5	29.2	38.7	45.7	36.4	28.8		
Oct	13.2	17.2	17.9	19.8	20.4	22.5	33.0	48.2	39.6	26.2		
Nov	6.5	11.4	9.9	13.6	10.2	21.7	31.1	40.0	37.2	21.0		
Dec	3.6	8.1	5.9	18.0	14.7	21.0	31.0	37.6	32.9	20.2		

Table B.6. Mean surface temperature (C) at sampled bag seine sites by bay system during 1986. ND = no data.

Month	Bay system											
	East					Upper					Lower	
	Sabine	Galveston	Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide	
Jan	13.3	15.4	15.0	10.8	14.3	14.3	13.8	13.6	15.9	14.1		
Feb	18.4	17.7	19.1	19.8	20.1	21.6	20.2	18.8	19.7	16.1		
Mar	19.4	20.4	18.7	19.4	21.0	22.6	22.2	22.0	20.0	20.8		
Apr	24.2	23.4	23.4	24.3	27.0	26.1	25.3	24.5	24.5	24.8		
May	26.1	27.9	26.1	26.3	27.3	27.8	25.7	27.9	29.7	27.5		
Jun	30.8	29.8	29.8	30.7	30.2	31.0	31.7	30.6	29.2	30.4		
Jul	27.7	31.4	31.0	31.7	31.0	31.9	31.7	30.6	29.9	31.1		
Aug	32.8	29.7	30.8	30.8	30.6	30.5	30.2	30.8	29.8	30.4		
Sep	32.0	29.9	30.4	27.8	29.6	30.4	30.1	30.2	30.4	29.8		
Oct	24.7	25.0	20.4	23.3	24.3	23.2	23.6	25.7	26.7	24.4		
Nov	17.3	20.4	20.7	19.7	20.8	16.5	18.3	23.5	25.2	20.5		
Dec	12.4	15.2	12.7	14.8	12.6	15.0	15.0	16.4	15.6	14.8		

Table B.7. Mean surface dissolved oxygen (ppm) at sampled bag seine sites by bay system during 1986. ND = no data.

Month	Bay system										
	East			San Antonio		Aransas	Corpus Christi	Upper		Coastwide	
	Sabine	Galveston	Matagorda	Matagorda	Antonio			Laguna Madre	Laguna Madre		
Jan	10	12	10	12	10	13	11	11	11	11	
Feb	8	10	9	10	9	11	10	9	8	10	
Mar	9	11	10	10	9	10	10	11	10	10	
Apr	10	9	8	9	8	9	10	8	9	9	
May	10	9	9	9	8	9	8	8	9	9	
Jun	11	8	10	8	8	8	8	8	6	8	
Jul	10	8	9	10	8	11	8	9	7	9	
Aug	10	8	8	9	7	10	7	8	8	8	
Sep	10	8	9	8	8	8	8	8	8	8	
Oct	10	8	9	8	10	14	9	9	10	10	
Nov	10	11	10	9	9	16	9	7	9	9	
Dec	10	10	10	10	11	14	10	10	10	11	

Table B.8. Mean surface turbidity (JTU) at sampled bag seine sites by bay system during 1986. ND = no data.

Month	Bay system										
	East			San Antonio		Aransas	Corpus Christi	Upper		Coastwide	
	Sabine	Galveston	Matagorda	Matagorda	Antonio			Laguna Madre	Laguna Madre		
Jan	32	52	48	22	34	40	24	37	30	36	
Feb	47	100	40	35	48	39	66	50	47	57	
Mar	50	73	81	56	45	84	124	61	76	72	
Apr	52	78	87	56	87	32	26	93	98	69	
May	54	56	52	55	58	30	39	48	47	49	
Jun	47	56	45	68	72	51	37	238	103	83	
Jul	60	93	97	38	35	46	85	44	70	62	
Aug	39	80	51	35	50	74	48	61	31	56	
Sep	38	46	36	59	41	73	44	25	207	68	
Oct	39	89	30	34	40	26	28	37	95	53	
Nov	53	47	49	34	45	29	27	29	94	45	
Dec	37	268	78	60	59	29	24	60	31	92	

Appendix C. Mean bag seine abundances (No./ha) and mean total lengths (mm) of selected fishes by month.

Table C.1. Mean abundances (No./ha) and mean total lengths (mm) of selected fishes caught with bag seines by bay system during 1986. Blank indicates no measurement taken.

Species Month	Bay system																													
	Sabine				Galveston				East				Corpus Christi				Upper Laguna Madre				Lower Laguna Madre				Coastwide					
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	Matagorda	San Antonio	Aransas	Christi	Upper	Madre	Upper	Madre	Lower	Madre	Lower	Madre	Coastwide	Coastwide	No./ha	Length	No./ha	Length	No./ha	Length		
Red drum																														
Jan	3	73	0	0	3	76	0	0	17	66	0	0	23	60	3	57	3	57	5	63	0	0	0	0	0	0	0	0	0	0
Feb	97	47	0	0	27	69	17	77	7	96	3	95	0	0	133	84	44	90	26	69	3	72	0	0	0	0	0	0	0	0
Mar	40	72	3	158	23	95	3	106	20	111	7	90	0	0	44	90	0	0	16	94	0	84	0	0	0	0	0	0	0	0
Apr	17	143	13	160	7	165	0	0	10	172	3	114	13	125	50	138	7	176	13	143	3	91	0	0	0	0	0	0	0	0
May	3	75	11	174	3	204	0	0	3	174	0	0	0	0	0	0	0	0	4	172	0	174	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	7	156	3	199	0	0	0	0	0	0	2	172	3	198	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198	0	0	0	0	0	0	0	0	0	0
Aug	10	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	3	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	43	0	0	0	0	0	0	0	0	0	0
Nov	0	0	20	47	0	0	0	0	7	34	0	0	0	0	0	0	0	0	5	46	0	0	0	0	0	0	0	0	0	0
Dec	50	68	43	57	37	69	0	0	3	46	0	0	0	0	20	46	0	0	15	57	0	0	0	0	0	0	0	0	0	0
Spotted seatrout																														
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	0	3	119	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	3	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	3	55	0	0	0	0	23	32	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	133	53	3	43	0	0	10	67	0	0	0	0	0	0	3	56	0	0	0	0	0	0	0	0	0	0
Aug	10	57	0	0	7	126	0	0	7	78	23	71	3	70	3	33	0	0	5	70	0	70	0	0	0	0	0	0	0	0
Sep	3	98	0	0	7	59	10	95	17	73	47	64	20	64	10	68	0	0	13	69	0	64	0	0	0	0	0	0	0	0
Oct	0	0	7	92	17	89	20	74	10	115	44	65	13	73	3	58	0	0	15	75	0	73	10	67	0	0	0	0	0	0
Nov	3	89	20	82	27	103	23	62	13	112	0	0	10	50	3	53	0	0	11	78	0	50	0	0	0	0	0	0	0	0
Dec	0	0	0	0	13	70	0	0	17	34	0	0	0	0	3	83	0	0	3	46	0	0	3	83	0	0	0	0	0	0
Black drum																														
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	23	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	3	72	7	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	7	126	10	124	27	63	0	0	3	105	0	0	3	96	0	75	0	0	4	107	0	96	0	0	0	0	0	0	0	0
Aug	3	121	10	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	118	0	0	10	111	0	0	0	0	0	0
Sep	10	157	0	0	30	102	0	0	13	160	0	0	0	0	3	175	0	0	3	145	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	26	0	0	0	0	0	0

Table C. I. (Cont'd.)

Species Month	Bay system												Coastwide No./ha Length			
	East				Corpus Christi				Lower Laguna Madre							
	Sabine No./ha Length	Galveston No./ha Length	Matagorda No./ha Length	Matagorda No./ha Length	San Antonio No./ha Length	Aranzas No./ha Length	Christi No./ha Length	Upper Laguna Madre No./ha Length	Lower Laguna Madre No./ha Length							
Sand seatrout																
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	7	56	0	0	0	0	0	0	0	0	0	0	0	0	0
May	7	22	47	3	92	13	61	0	0	0	0	0	0	0	7	52
Jun	33	60	27	20	45	67	63	0	0	0	0	0	0	0	17	58
Jul	33	86	13	3	82	0	0	0	0	0	0	0	0	0	4	60
Aug	3	48	13	3	55	0	0	0	0	0	0	0	0	0	3	54
Sep	0	7	58	10	61	20	68	0	0	3	57	0	0	0	5	64
Oct	0	17	49	10	73	3	85	0	0	0	0	0	0	0	5	55
Nov	0	3	53	0	0	0	0	0	0	0	0	0	0	0	1	53
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gafftopsail catfish																
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gulf menhaden																
Jan	7	27	0	0	0	3	49	0	0	0	0	0	0	0	1	41
Feb	40	37	7	33	0	1167	35	3	39	37	32	0	27	32	181	34
Mar	2060	36	47	34	8317	33	140	43	17	28	0	0	13	30	393	34
Apr	7610	36	33810	37	263	48	107450	53	7313	37	33	7	0	0	23727	48
May	13747	51	630	36	8037	39	4173	41	0	0	0	13	83	35	1537	44
Jun	6467	57	257	43	590	53	6247	61	3	42	270	64	23	48	1311	58
Jul	6010	53	860	42	297	43	90	57	0	0	0	0	0	0	433	49
Aug	417	52	23	52	480	47	0	0	0	0	0	0	0	0	33	50
Sep	230	67	20	94	3	55	1627	49	0	0	0	0	0	0	248	51
Oct	0	0	687	55	13	61	10	52	0	0	0	7	0	0	146	55
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	7	40	20	54	0	0	7	56	0	0	0	0	3	47

Table C.1. (Cont'd.)

Species Month	Bay System												Coastwide						
	Sabine			Galveston			East			Corpus Christi			Upper Laguna Madre		Lower Laguna Madre		Coastwide		
	No./ha	Length		No./ha	Length		Matagorda	Matagorda	Matagorda	San Antonio	Aransas	Christi	No./ha	Length	No./ha	Length	No./ha	Length	
Hardhead catfish																			
Jan	0			0			0			0			0				0		0
Feb	0			0			0			0			0				0		0
Mar	0			0			0			0			0				0		0
Apr	7	160		3	114		243	131		0			0			20	132		38
May	57	115		78	119		37	112		13	136		0			0			29
Jun	43	129		50	138		160	136		17	122		0			0			122
Jul	23	156		3	132		30	147		3	149		0			0			38
Aug	17	70		30	150		33	137		57	80		0			93	81		8
Sep	23	152		93	120		127	108		117	100		0			0	104		39
Oct	37	102		23	109		17	108		153	106		0			0			106
Nov	0			0			0			0			0			3	187		<1
Dec	0			0			0			0			0			0			187
Pinfish																			
Jan	0			0			0			0			3			10	28		1
Feb	0			3	27		333	43		57	42		23			190	36		42
Mar	0			0			333	38		310	45		697			57	36		267
Apr	33	47		593	46		357	49		13	62		557			463	45		839
May	157	55		430	66		273	55		383	69		883			367	57		613
Jun	290	70		90	75		87	78		487	62		260			1280	68		480
Jul	167	84		417	66		70	84		383	74		107			1483	64		446
Aug	63	91		427	66		140	78		30	74		320			143	75		320
Sep	37	106		13	119		120	74		647	79		753			173	91		312
Oct	13	124		13	129		20	118		3	102		23			97	91		81
Nov	0			70	102		3	103		0			27			10	85		79
Dec	3	132		0			0			0			0			10	79		9
Spot																			
Jan	3	149		0			0			0			0			0	44		35
Feb	0			53	86		6187	44		7	40		0			170	28		270
Mar	27	89		437	55		1427	57		250	48		307			23	32		2607
Apr	787	60		447	59		807	53		587	55		673			910	64		2173
May	307	67		104	60		1003	67		197	66		217			30	66		987
Jun	133	66		40	64		197	69		73	79		413			217	81		650
Jul	37	73		233	70		120	73		100	84		157			0	77		93
Aug	60	70		187	81		123	72		7	84		63			3	108		290
Sep	23	94		73	105		33	94		3	90		37			17	88		173
Oct	20	99		13	106		0			0			53			3	83		3
Nov	0			67	112		0			0			3			103			50
Dec	23	61		23	104		0			0			0			0			6

Table C. 1. (Cont'd.)

Species Month	Bay system														Coastwide									
	Sabine				Galveston				East				San Antonio				Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre	
	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length	No./ha	Length
Striped mullet																								
Jan	13	27	23	138	37	65	3	171	30	54	47	25	47	29	97	28					41	38		
Feb	23	63	33	143	10	33	13	133	7	33	17	26	73	30	67	40					25	46		
Mar	13	116	3	31	0		63	46	0		370	42	23	37	33	56					48	46		
Apr	47	156	17	117	0		67	72	47	34	10	123	50	33	80	40					43	83		
May	53	97	19	147	63	55	110	88	20	70	53	57	27	96	130	74					55	80		
Jun	70	84	13	183	33	107	97	94	23	104	37	115	17	114	13	74					32	106		
Jul	83	92	43	148	113	105	0		20	107	80	100	17	113	0						42	107		
Aug	487	101	27	160	13	100	17	125	10	127	57	99	13	101	47	137					47	117		
Sep	117	108	10	170	3	137	7	128	67	136	10	137	7	124	13	187					25	135		
Oct	27	122	10	147	0		23	142	33	130	60	146	0		17	182					17	146		
Nov	60	123	83	147	0		13	152	0		7	144	0		0						23	144		
Dec	13	132	27	150	7	66	33	132	13	46	0		7	187	0						22	146		
Other finfishes																								
Jan	37	67	1113	65	6140	42	1620	47	2447	39	110	60	1953	39	673	42					1796	43		
Feb	267	87	993	60	227	86	503	40	1237	46	143	41	1770	40	777	49					700	48		
Mar	187	89	617	45	4327	91	267	50	493	73	313	62	1460	53	443	46					1182	75		
Apr	453	81	150	91	630	89	1017	63	837	63	537	72	2470	40	560	60					798	60		
May	393	82	530	76	1233	79	343	80	5433	51	197	77	480	58	840	72					1193	62		
Jun	310	70	620	68	730	88	387	68	1110	70	723	48	603	61	1127	69					626	71		
Jul	287	99	1050	68	173	98	760	66	887	70	153	61	910	46	587	54					543	66		
Aug	83	93	250	139	300	75	170	85	940	55	177	64	463	54	593	93					457	70		
Sep	963	61	347	96	260	120	290	113	180	101	477	71	2313	46	353	93					548	73		
Oct	197	109	140	123	523	75	157	104	389	75	183	62	220	71	153	72					308	78		
Nov	143	69	520	79	107	93	127	82	197	56	80	64	460	45	240	61					224	70		
Dec	123	64	93	100	53	78	4850	38	833	44	270	48	427	38	413	36					838	41		
Total finfishes																								
Jan	87	253	1567	61	6190	42	1640	48	2480	39	163	51	2040	39	1107	37					1907	42		
Feb	500	627	1383	62	31233	45	533	45	1770	42	190	38	2210	40	4210	47					5812	45		
Mar	2700	57	11617	49	6537	68	680	49	1557	50	1973	51	1563	52	3507	53					2848	57		
Apr	9580	66	1853	69	110737	83	9347	53	5267	55	1803	59	3920	49	2083	64					26632	77		
May	14990	61	9843	63	7130	64	717	79	8470	53	1370	58	907	60	1963	69					3997	62		
Jun	7407	75	4017	69	7803	74	1063	77	2080	69	1470	60	2530	68	2113	68					2759	73		
Jul	6707	83	5117	67	637	90	1393	67	1693	79	503	75	1077	49	1123	58					1624	70		
Aug	1187	84	1317	90	613	79	297	86	1437	63	623	73	637	61	1850	90					1038	76		
Sep	1427	76	1763	87	2220	73	1097	90	1007	94	1300	76	2510	50	780	94					1303	78		
Oct	300	109	397	105	860	78	347	108	774	89	347	88	330	77	350	83					622	88		
Nov	207	85	137	89	860	87	170	85	213	55	127	70	473	46	480	74					344	80		
Dec	217	70	217	89	73	70	4910	60	850	44	273	48	447	42	493	41					908	59		

Dispersal of this publication conforms with Texas State Documents Depository Law, and it is available at Texas State Publications Clearinghouse and Texas Depository Libraries.

PWD-RP-3400-264-4/88