

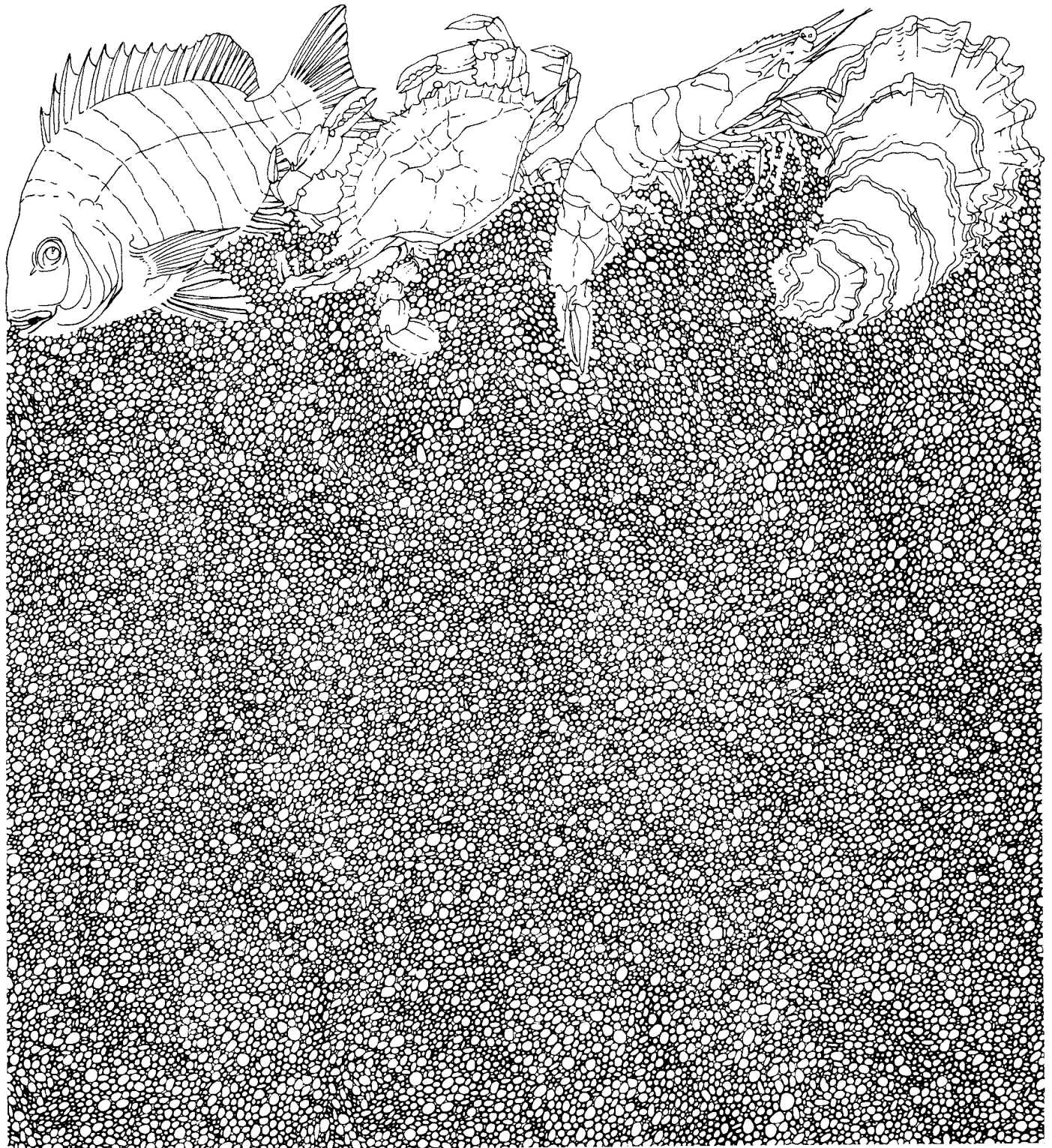
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Trends in Relative Abundance of Selected Finfishes Along the Texas Coast: November 1975 - June 1984

by L.W. McEachron and A.W. Green

Management Data Series Number 79
1985

Texas Parks and Wildlife Department
Coastal Fisheries Branch



TRENDS IN RELATIVE ABUNDANCE AND
SIZE OF SELECTED FINFISH IN TEXAS BAYS:
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ACKNOWLEDGEMENTS

We thank each member of the Texas Parks and Wildlife Department Coastal Fisheries Finfish Program who conscientiously collected and recorded all data. Gary Saul, Ed Hegen, Maury Ferguson, Hal Osburn and Gary Matlock, 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).

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), and sand seatrout (C. arenarius) were monitored using a standardized fishery independent gill net and bag seine sampling program in eight Texas bay systems. 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. 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 full effect of the regulations may not be evident for 3-5 years because spotted seatrout and red drum do not spawn until they are 3-5 years old. In addition, the effect of these regulations has been hampered by the coastwide fish kill documented in December 1983 and January 1984. Reduced population levels of red drum, spotted seatrout and black drum due to this freeze were observed in the 1984 spring gill net catch rates.

INTRODUCTION

Commercial and recreational fishermen in the United States have increased fishing pressure on marine finfish stocks in recent years (Anderson and Power 1957; United States Department of Commerce 1982). Marine landings of finfishes by commercial fishermen increased from 2.04 billion kg in 1955 to 2.95 billion kg in 1980. 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). Fisheries management has become more complicated because commercial and recreational fishermen often harvest the same species.

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 finfish in Texas bays (Hegen 1983). Gill net sets during spring (15 April-15 June) and fall (15 September-15 November) and bag seine samples obtained monthly provide a statistically consistent and cost efficient method for obtaining information on adult, sub-adult, and juvenile fish populations (Hegen 1983, Hegen et al. 1983, Matlock et al. 1978, Matlock 1982a, Matlock et al. 1982). Random selection of sampling sites minimizes the effect any one site has on annual estimates. In the fall of 1980, 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 within each bay (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 sportfish in the coastal bay systems of Texas.
2. publish the results in a report which will assist resource managers to effectively manage selected important sportfishes.

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

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 order) were used in eight Texas bay systems (Figures 2-10) from November 1975 to June 1984. Bag seines (18.3 m long; 1.8-m deep with 1.3-cm stretched nylon multifilament mesh in the central bag) were used in these bays during October 1977 through September 1984 (Figures 12-19). 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 for approximately 100 areas in each bay system (Appendices A and B).

During each season, 8-45 gill nets were set overnight in each bay system except in East Matagorda Bay. Beginning 1 September 1984 two gill nets were set in East Matagorda Bay during the first and last two fullest weeks of each month. Since the fall 1981, not less than three nor more than seven gill nets were set each week during each season; no more than 9 stations were duplicated each season. Prior to fall 1981 no less than 8 nor more than 16 gill net sets occurred in each season. Gill nets were set perpendicular to shore with the smallest mesh shoreward; they were set within 1 hour before sunset and were retrieved within 4 hours after the following sunrise. Total fishing time was recorded to the nearest 0.1 hour. Each sampling week extended from 1 hour before sunset on Sunday through 4 hours after sunrise the following Sunday.

Each month 10 bag seine samples were collected in each bay system. Five stations were sampled during the first and the last two fullest weeks of each month; no station was duplicated. Bag seine samples were collected in East Matagorda Bay beginning February 1983. Bag seines were pulled parallel to shore for a distance of 15.2-30.5 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.

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), and sand seatrout (C. arenarius) were calculated by dividing the total number of fish caught by the total hours fished (gill net) or hectares sampled (bag seine) from all samples in a season (gill net) or month (bag seine). Coastwide catch rates were weighted by the 1 each bay system's shoreline (Matlock and Ferguson 1982). Annual bag seine catch rates were calculated from unweighted monthly means.

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 and during each set in East Matagorda Bay. 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 (nearest 1 mm) for fishes caught in bag seines were obtained from a random sample of no more than 19 individuals of each species in each sample. Beginning March 1983, lengths of fishes greater than 204 mm were eliminated from bag seine mean length calculations based on the findings of McEachron and Green (In Press). Coastwide lengths were weighted according to the catch rate in each bay system.

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 rate for red drum (0.9/h) occurred in 1975, 1976 and 1979; the lowest catch rate (0.5/h) occurred in 1982 and 1983 (Table 1). All other fall catch rates were similar (0.6-0.7/h). Generally, fall catch rates in the upper Laguna Madre (0.2-0.5/h) were lower than reported in all other bay systems.

The highest spring coastwide red drum catch rate (0.8/h) occurred in 1980 (Table 2). Lowest catch rates occurred in 1977-1979 (0.3/h). Catch rates in all other years ranged from 0.4-0.7/h. Catch rates within each bay system ranged from .0.1/h to 1.2/h.

The highest fall coastwide spotted seatrout catch rate (0.7/h) occurred in 1976 (Table 1). Catch rates in 1975 and 1977 were 0.5/h. All other catch rates since 1978 have been either 0.3 or 0.4/h. Fall catch rates within each bay system ranged from 0.1-2.5/h.

Spring coastwide spotted seatrout catch rates were highest (1.1/h) in 1976 (Table 2). Catch rates steadily declined through 1979 to 0.3/h. Since 1979 they steadily increased through 1982 to 0.9/h; catch rates then declined through 1984 to 0.3/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 occurred in 1979 (0.3/h). Catch rates in all other years ranged from 0.5-0.9/h. Lower Laguna Madre catch rates (0.4-2.7/h) were generally higher than in any other bay system.

Spring coastwide black drum catch rates were highest (0.9/h) in 1983 (Table 2). They were lowest in 1978 (0.3/h) and 1979 (0.4/h). Catch rates ranged from 0.5 to 0.7/h in all other years. Catch rates within each bay system ranged from <0.1-2.7/h.

Fall coastwide sheepshead catch rates were either 0.2 or 0.3/h each year (Table 1). Aransas Bay (0.2-1.5/h) and San Antonio Bay (. 0.1-0.7/h) catch rates were generally higher than in any other bay system.

Spring coastwide sheepshead catch rates ranged from 0.1-0.3/h each year (Table 2). Catch rates within each bay system ranged from 0.0-0.6/h.

Fall and spring coastwide southern flounder catch rates were <0.2/h during all years (Tables 1 and 2). Catch rates within each bay system were <0.03/h except for East Matagorda Bay during fall 1976.

The highest fall coastwide Atlantic croaker catch rate (0.4/h) occurred in both 1977 and 1983 (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 rates occurred in 1976 (0.3/h), 1977 (0.3/h) and 1982 (0.2/h); they were 0.1/h in all other years (Table 2). Catch rates within each bay system ranged from 0.0-1.0/h.

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

Fall and spring coastwide mean lengths did not vary widely among years for any species (Tables 1 and 2). Red drum mean lengths ranged from 373-468 mm. Spotted seatrout mean lengths ranged from 424-496 mm. Black drum mean lengths ranged from 346-421 mm. Sheepshead mean lengths ranged from 292-373 mm. Southern flounder mean lengths ranged from 321-365 mm. Atlantic croaker mean lengths ranged from 263-322 mm. Sand seatrout mean lengths ranged from 216-331 mm.

The highest catch rates for red drum, spotted seatrout and Atlantic croaker occurred in the 7.6 and 10.2-cm meshes in all bay systems (Appendix C). Black drum, sheepshead, southern flounder and sand seatrout 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 parameters varied among seasons, among years, and among bay systems (Appendix D). Coastwide annual salinities ranged from 15.9 to 27.9 o/oo during fall and from 14.6 to 27.6 o/oo during spring. Salinities were generally higher in the upper and lower Laguna Madre than in any other bay system. Coastwide water temperatures were generally lower during fall (21.3-25.8 C) than during spring (24.4-27.1 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 San Antonio Bay in springs 1980 (5 ppm) and 1982 (4 ppm). Turbidities were generally <91 Jackson Turbidity Unit (JTU) coastwide and in all bay systems in both seasons.

Bag Seine

Coastwide red drum bag seine catch rates increased from 8.08/ha in 1977-78 to 24.13/ha in 1979-80, then decreased to 9.42/ha in 1980-81 (Table 3). Catches in 1981-82 (31.31/ha) and 1982-83 (25.04/ha) were the highest recorded since sampling began. Catch rates among bay systems ranged from 0.35/ha in upper Laguna Madre during 1980-81 to 70.09/h in Galveston Bay during 1979-80

Coastwide spotted seatrout bag seine catch rates decreased from 17.50/ha in 1977-78 to 8.79-9.18/ha during 1979-80 through 1981-82 (Table 3). Catch rates then increased to 16.95/ha in 1982-83. Catch rates among bay systems ranged from 0.34/ha in lower Laguna Madre during 1979-80 to 45.97/ha in Galveston Bay during 1982-83.

Coastwide black drum catch rates were highest in 1977-78 (12.52/ha) and 1978-79 (14.55/ha) (Table 3). Catch rates ranged from 4.92-7.47/ha during all other years. Individual bay system catch rates ranged from 0.00/ha in lower Laguna Madre during 1977-78 to 37.04/h in Galveston Bay during 1978-79.

The highest coastwide sheepshead catch rate (6.49/ha) occurred during 1978-79 (Table 3). All other catch rates were <1.72/ha. Bay system catch rates ranged from 0.00/ha in upper Laguna Madre-during all years except 1978-79 to 15.74/ha in Galveston Bay during 1978-79.

Coastwide southern flounder catch rates increased from 1.45/ha in 1978-79 to 8.73/ha in 1981-82 (Table 3). They then declined to 4.27/ha in 1982-83. Bay system catch rates ranged from 0.00/ha in Aransas Bay during 1978-79 to 19.01/ha in Aransas Bay during 1981-82.

Coastwide Atlantic croaker catch rates increased from 111.61/ha in 1977-78 to 291.29/ha in 1979-80 (Table 3). They decreased in 1980-81 (141.20/ha) and then increased to the highest catch rate of 482.23/ha in 1981-82. The catch rate in 1982-83 was 261.30/ha. Bay system catch rates ranged from 0.35/ha in upper Laguna Madre during 1980-81 to 1861.80/ha in Galveston Bay during 1981-82.

Coastwide sand seatrout catch rates were highest in 1981-82 (12.05/ha) and 1982-83 (13.93/ha) (Table 3). Catch rates ranged from 3.02-9.74/ha during all other years. Highest bay system catch rates occurred in Galveston Bay (11.53-44.87/ha) and Matagorda Bay (1.86-29.30/ha); catch rates in all other bay systems were <2.32/ha.

Coastwide monthly bag seine catch rates during October 1982-September 1983 indicated seasonal peaks in abundance which were unique for each species (Appendix E). Red drum coastwide catch rates were highest during November-April; mean lengths increased from 47 mm in December to 191 mm in August. Coastwide spotted seatrout catch rates were highest during July-November; mean lengths increased from 53 mm in June to 90 mm in September. The highest catch rate for black drum occurred during July and August; mean lengths increased from 64 mm in June to 148 mm in September. No sheepshead were caught during January-May and coastwide catch rates were <3.18/ha in all other months; mean lengths increased from 31 mm in June to 60 mm in August. Highest coastwide southern flounder catch rates occurred during February-April; mean lengths increased from 31 mm in January to 127 mm in July. Coastwide Atlantic croaker catch rates were highest during January-June; mean lengths increased from 33 mm in December to 118 mm in July. Sand seatrout coastwide catch rates were highest during May-June and August-September with none caught during December-March; mean lengths increased from 30 mm in April to 85 mm in July.

Hydrologic parameters varied among months and among bay systems (Appendix D). Coastwide salinities ranged from 17.7 o/oo in September to 27.5 o/oo in October. 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 (15-17 C) and

highest temperatures in summer (26-31 C). Dissolved oxygen ranged from 5-13 ppm coastwide and in all bay systems. Turbidities were generally <98 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 (In Press) found differences in coastwide annual catch rates for several species. The declines in relative abundance of red drum and spotted seatrout (Matlock 1982b) have stabilized due to the imposition of restrictive regulations. However, the full effect of these regulations may not be evident for 3-5 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 TPWD be maintained.

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. Spotted seatrout spring gill net catch rates declined to the lowest level recorded during the past 9 years. Red drum and black drum spring gill net catch rates declined to intermediate levels. Spring gill net catch rates for sheepshead, southern flounder, Atlantic croaker and sand seatrout were generally low and decreases in population levels were not obvious. It is apparent that effects of catastrophic events such as freezes on some finfish populations can be observed with statistics from the standardized monitoring program used by TPWD.

Relative abundance of juvenile fishes is not uniform throughout the year. Periods of high relative abundance in bag seines have been subjectively determined for red drum, spotted seatrout, black drum, sheepshead, southern flounder and Atlantic croaker (McEachron and Green In Press). The 1982-83 monthly bag seine catches in this report also indicate periods of high abundance for these species. It would be most appropriate to present catch rates during periods of high relative abundance. It is recommended that periods of high abundance in bag seines be graphically determined for each of the species and that these "seasonal" catch rates be presented in future reports.

Beginning March 1983, fish <204 mm were eliminated from bag seine catch rates based on the findings of McEachron and Green (In Press).

Consequently, the annual bag seine catch rates during 1982-83 may be lower due to elimination of large fish and not because of declines in relative abundance. This will also cause smaller mean lengths. However, this procedure should decrease the variances of these estimates by eliminating the few large fishes which are fortuitously captured in bag seines. Bag seine catch rates and mean lengths calculated from data which have had these larger fish removed should be more precise and should more accurately reflect changes in juvenile abundance.

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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 1975-1983. Blank indicates no measurement taken; ND = no data.

Species	Year	Bay system																	
		East				Corpus Christi				Lower Laguna Madre				Coastwide					
		Galveston	Matagorda	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Coastwide	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				
Red drum	1975	1.2	401	ND	0.9	323	338	0.9	323	1.1	343	0.4	332	0.3	424	0.7	474	0.9	373
	1976	1.1	509	1.4	492	416	1.6	409	0.5	395	0.5	469	0.3	510	1.3	474	0.9	460	
	1977	0.6	453	0.9	391	446	0.8	377	0.6	393	0.5	435	0.3	367	0.4	439	0.6	420	
	1978	0.3	443	0.7	377	402	0.6	388	0.9	412	0.4	437	0.3	444	0.4	491	0.6	420	
	1979	0.7	389	0.7	391	359	1.9	386	0.9	388	0.8	362	0.5	396	0.5	465	0.9	386	
	1980	0.5	458	0.8	475	434	0.9	414	1.1	390	0.7	366	0.5	457	0.6	449	0.7	424	
	1981	0.5	443	0.7	412	397	0.7	384	0.8	417	0.6	400	0.3	524	0.8	496	0.6	432	
	1982	0.6	453	1.0	406	415	0.5	391	0.5	440	0.2	502	0.2	506	0.4	459	0.5	438	
	1983	0.6	444	0.8	405	421	0.6	417	0.4	438	0.3	462	0.3	482	0.6	518	0.5	444	
Spotted seatrout	1975	0.3	456	ND	0.6	420	420	1.0	392	0.6	478	0.4	489	0.2	455	0.8	413	0.5	432
	1976	0.4	464	1.1	453	436	0.7	429	0.2	480	0.6	391	0.2	463	2.5	428	0.7	435	
	1977	0.3	511	0.3	452	459	0.7	388	0.1	490	0.3	490	0.7	415	0.8	490	0.5	455	
	1978	0.3	548	0.3	401	406	0.5	393	0.1	422	0.2	420	0.5	429	0.5	440	0.4	436	
	1979	0.2	448	0.1	385	416	0.2	447	0.1	475	0.2	409	0.1	441	0.4	482	0.3	441	
	1980	0.4	486	0.1	413	407	0.2	435	0.2	449	0.3	456	0.2	441	0.5	497	0.3	462	
	1981	0.3	472	0.8	412	446	0.3	426	0.2	440	0.4	442	0.2	475	0.7	494	0.4	459	
	1982	0.3	482	0.3	499	452	0.4	437	0.2	498	0.2	523	0.4	451	0.5	476	0.3	470	
	1983	0.4	482	0.5	428	468	0.6	438	0.3	482	0.4	455	0.4	495	0.6	491	0.4	466	

Table 1. (Cont'd.).

Species	Year	Bay system																																			
		Galveston			East Matagorda			Matagorda			San Antonio			Arkansas			Corpus Christi			Upper Laguna Madre			Lower Laguna Madre			Coastwide											
		No./h	Length		No./h	Length		No./h	Length		No./h	Length		No./h	Length		No./h	Length		No./h	Length		No./h	Length		No./h	Length		No./h	Length							
Black drum	1975	0.5	345	ND			0.9	336	0.5	317	0.9	308	0.4	358	1.2	422	1.0	454	0.7	370																	
	1976	0.3	336	0.7	298	0.9	345	1.2	325	0.6	380	0.2	365	1.1	506	2.2	424	0.9	393	0.9	393																
	1977	0.4	397	0.5	364	0.4	339	0.5	325	0.5	346	0.3	381	0.9	410	2.7	399	0.8	384	0.8	384																
	1978	0.4	384	1.0	345	0.5	389	0.4	309	0.4	287	0.1	370	0.9	426	0.4	374	0.5	372	0.5	372																
	1979	0.2	380	0.1	445	0.2	440	0.3	392	0.3	392	0.3	307	0.4	389	0.5	428	0.3	392	0.3	392																
	1980	0.8	396	0.9	344	0.7	310	0.9	301	0.6	346	0.5	371	0.6	365	1.0	404	0.8	367	0.8	367																
	1981	0.3	424	0.4	357	0.4	400	0.5	314	0.5	347	0.4	359	0.5	394	0.8	390	0.5	377	0.5	377																
	1982	0.7	356	2.4	347	0.7	358	1.1	321	1.0	337	0.6	360	0.8	375	1.9	383	1.0	357	1.0	357																
	1983	0.3	382	1.0	371	0.5	374	0.7	327	0.7	348	0.7	406	0.4	411	0.9	417	0.6	379	0.6	379																
	Sheeps-head	1975	<.1	362	ND			0.1	316	0.2	291	1.5	298	0.1	376	0.3	409	0.1	352	0.3	317																
		1976	<.1	331	0.3	319	0.2	276	0.4	330	1.0	253	0.1	328	0.2	377	0.2	340	0.3	292	0.3	292															
		1977	0.1	342	0.3	316	0.1	314	<.1	292	0.6	266	0.2	337	0.3	406	0.4	348	0.2	322	0.2	322															
		1978	0.1	308	0.2	310	0.1	342	0.5	371	0.6	302	0.1	357	0.2	371	0.1	300	0.2	332	0.2	332															
1979		<.1	350	0.2	353	0.1	312	0.4	362	0.8	319	0.2	339	0.1	395	0.2	349	0.2	337	0.2	337																
1980		0.1	283	0.1	309	<.1	353	0.6	296	0.6	306	0.2	359	0.2	382	0.4	330	0.3	316	0.3	316																
1981		<.1	321	0.1	277	0.2	293	0.3	336	0.2	323	0.1	343	0.1	382	0.3	330	0.2	326	0.2	326																
1982		<.1	323	0.2	324	<.1	318	0.1	309	0.3	290	0.3	290	0.1	356	0.2	370	0.3	311	0.2	319																
1983		0.2	323	0.5	345	0.2	344	0.2	340	0.2	338	0.2	338	0.2	371	0.2	389	0.4	326	0.2	345																

Table 1. (Cont'd.).

Species	Year	Bay system																											
		East				San Antonio				Aransas				Corpus Christi				Upper Laguna Madre				Lower Laguna Madre				Coastwide			
		Galveston	Matagorda	Matagorda	San Antonio	Aransas	Aransas	Aransas	Aransas	Corpus Christi	Corpus Christi	Corpus Christi	Corpus Christi	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	Coastwide	Coastwide	Coastwide	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	No./h	Length						
Sand seatrout	1975	0.1	309	ND		0.3	286	0.0	0.0	0.1	308	0.1	288	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	294	0.1	294					
	1976	0.2	290	0.3	296	0.1	299	0.0	0.0	0.0		0.0	308	0.0	0.0		0.0	0.0	0.0	0.0	0.1	299	0.1	299					
	1977	0.2	326	0.0		<.1	321	0.0	0.0	0.0		0.0		<.1	377	0.0	0.0	0.0	0.0	0.0	0.1	331	0.1	331					
	1978	<.1	303	<.1		<.1	184	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1	243	<.1	243					
	1979	0.1	261	0.0		0.1	252	<.1	211	0.0		0.1	294	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	262	0.1	262					
	1980	0.2	309	0.0		<.1	220	0.0	0.0	0.0		0.0		0.0	0.0	0.0	<.1	325	<.1	311	0.1	297	0.1	297					
	1981	0.2	271	0.1	245	<.1	242	0.1	175	<.1	226	0.1	266	0.1	335	0.1	0.2	311	0.2	311	0.1	269	0.1	269					
	1982	0.2	292	0.1	245	0.2	250	0.1	249	<.1	297	0.2	303	<.1	265	<.1	0.1	306	0.1	306	0.1	277	0.1	277					
	1983	0.2	297	0.1	230	0.2	280	0.1	240	0.1	294	0.1	276	0.0	0.0	0.0	0.2	304	0.2	304	0.1	280	0.1	280					

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 1976-1984. Blank indicates no measurement taken; ND = no data.

Species	Year	Bay system																	
		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
Red drum	1976	<.1	310	ND	1.0	429	1.0	405	1.0	451	0.6	412	0.2	538	1.2	333	0.7	407	
	1977	0.3	451	0.2	415	0.1	467	0.3	386	0.4	435	0.4	396	0.1	438	0.5	269	0.3	391
	1978	0.1	394	0.4	430	0.5	489	0.2	399	0.2	449	0.3	470	0.2	495	0.5	275	0.3	415
	1979	0.2	491	0.1	447	0.2	413	0.2	427	0.5	426	0.3	498	0.2	479	0.3	304	0.3	429
	1980	0.9	449	0.4	440	1.1	385	0.7	400	0.4	373	1.0	432	0.8	418	0.6	288	0.8	402
	1981	0.3	431	0.2	462	0.2	408	0.5	397	0.5	406	0.3	431	0.3	411	1.0	441	0.4	443
	1982	0.9	477	0.4	439	0.5	422	0.4	409	0.4	432	0.5	473	0.3	496	1.0	502	0.6	466
	1983	0.8	467	1.1	477	0.7	417	0.8	404	0.6	395	0.4	425	0.2	492	0.8	475	0.7	444
1984	1.0	482	0.6	448	0.2	437	0.2	515	0.4	421	0.8	455	0.3	438	0.6	523	0.5	468	
Spotted seatrout	1976	<.1	530	ND	0.3	400	0.3	382	3.3	474	0.3	365	0.0	444	3.4	457	1.1	456	
	1977	0.2	516	2.0	440	0.2	384	0.9	400	1.0	402	0.4	384	1.3	444	1.5	423	0.8	424
	1978	0.2	524	0.4	432	0.6	414	1.4	413	0.1	446	0.5	446	0.9	472	1.4	511	0.7	461
	1979	0.2	518	0.5	430	0.2	486	0.1	443	0.5	499	0.3	533	0.4	438	0.6	527	0.3	496
	1980	0.1	439	0.8	396	0.6	428	0.9	397	0.2	475	0.3	505	0.5	473	0.9	527	0.5	457
	1981	0.4	483	1.9	410	0.4	406	0.7	464	0.8	470	0.5	440	0.4	430	2.2	485	0.8	462
	1982	0.4	492	0.9	462	0.5	460	0.8	444	0.7	433	0.8	493	0.8	489	2.5	503	0.9	480
	1983	0.4	524	1.6	440	0.7	457	0.9	440	0.7	449	0.6	491	0.3	523	1.3	491	0.7	467
1984	0.3	499	0.7	432	0.4	441	0.3	480	0.3	436	0.3	479	0.1	510	0.6	460	0.3	458	

Table 2. (Cont'd.).

Species	Year	Bay system															
		East			Corpus Christi			Upper Laguna Madre		Lower Laguna Madre		Coastwide					
		Galveston	Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	No./h	Length	No./h	Length	No./h	Length	No./h	Length		
Black drum	1976	0.2	310	ND	443	1.0	306	0.9	389	0.6	360	1.1	352	0.9	387	0.7	370
	1977	0.4	388	0.3	518	1.0	315	1.2	330	0.5	347	0.4	376	0.9	430	0.7	377
	1978	0.2	453	0.4	300	0.1	318	0.4	336	0.4	318	0.1	388	0.8	397	0.3	370
	1979	0.3	295	0.6	460	<.1	465	0.4	315	0.1	396	0.3	370	0.9	416	0.4	377
	1980	0.4	312	1.0	384	0.5	256	1.0	321	0.3	353	0.7	384	0.4	456	0.6	346
	1981	0.8	422	0.8	302	0.4	358	0.8	362	0.1	372	1.1	390	0.9	402	0.6	384
	1982	0.6	349	0.8	323	0.7	328	1.1	305	0.4	342	0.7	382	1.2	401	0.7	353
	1983	0.8	333	2.7	367	0.6	337	1.2	340	0.9	368	0.4	390	1.6	438	0.9	372
	1984	0.7	372	0.9	389	0.2	464	0.2	562	0.4	418	0.5	443	0.6	462	0.5	421
	Sheeps-head	1976	0.0	ND	ND	420	0.3	341	0.6	342	0.0	342	0.5	367	0.3	318	0.2
1977		<.1	338	<.1	280	0.1	308	<.1	232	0.1	294	0.1	380	0.1	336	0.1	315
1978		0.0	305	0.4	278	0.1	313	0.2	354	0.2	356	0.2	395	0.2	358	0.2	350
1979		<.1	305	0.1	391	<.1	402	0.2	319	0.5	364	0.1	370	0.2	339	0.2	350
1980		<.1	353	0.3	344	0.1	320	0.2	353	0.2	322	0.2	369	0.3	346	0.2	346
1981		<.1	393	0.2	453	0.6	335	0.3	349	0.1	319	0.2	390	0.6	325	0.3	342
1982		<.1	332	0.0	333	0.1	354	0.1	326	0.2	344	0.2	361	0.4	326	0.1	338
1983		0.1	319	0.4	373	0.2	364	0.2	357	0.4	354	0.2	386	0.4	332	0.2	346
1984		0.2	357	0.3	386	0.1	397	0.1	401	0.2	377	0.2	377	0.2	351	0.2	373

Table 2. (Cont'd.).

Species	Year	Bay system														
		East			Corpus Christi			Upper Laguna Madre			Lower Laguna Madre					
		Galveston	Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Upper Laguna Madre	Lower 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			
Southern flounder	1976	0.0		0.0	0.1	335	0.0	358	0.0	430	0.0	350	0.2	350	<.1	345
	1977	<.1	351	326	<.1	208	0.1	338	<.1	430	0.0	345	<.1	345	0.1	340
	1978	<.1	249	312	<.1	294	<.1	338	0.1	334	0.1	345	0.1	344	0.1	321
	1979	<.1	451	337	<.1	405	<.1	282	0.1	380	0.1	320	0.2	371	0.1	365
	1980	0.1	344	318	0.1	320	0.1	295	0.1	316	<.1	364	0.1	376	0.1	330
	1981	<.1	244	340	<.1	270	<.1	363	0.1	332	0.1	348	0.1	338	0.1	321
	1982	<.1	344	319	<.1	309	<.1	299	<.1	362	0.1	337	0.1	350	0.1	339
	1983	0.2	363	318	0.2	355	0.2	340	0.2	388	0.2	349	0.2	368	0.2	355
	1984	0.2	351	388	0.2	314	0.2	323	0.2	381	0.1	361	0.1	352	0.2	345
	Atlantic croaker	1976	0.2	298		0.1	238	0.0	285	1.0	277	0.0	333	0.8	333	0.3
1977		0.3	268	255	0.0	238	<.1	285	1.0	264	0.4	297	0.2	269	0.3	272
1978		0.1	252	270	<.1	250	<.1	248	0.1	281	0.2	281	0.1	275	0.1	270
1979		0.2	256	258	<.1	264	0.0	240	0.1	263	0.1	299	0.2	304	0.1	276
1980		0.1	268	248	0.0	235	<.1	240	0.1	275	0.3	315	0.1	288	0.1	287
1981		0.1	260	250	<.1	276	0.0	290	0.1	266	0.3	304	0.1	273	0.1	282
1982		0.2	266	263	<.1	267	<.1	264	0.1	283	0.2	314	0.4	342	0.2	303
1983		0.3	272	277	<.1	268	<.1	286	0.3	279	0.2	296	0.3	324	0.1	289
1984		0.2	263		0.1	282	<.1	269	0.1	256	0.1	273	0.1	280	0.1	263

Table 3. Annual mean catch rate (No./ha) and mean total lengths (mm) of fishes caught with bag seines by bay system during October 1977-September 1983. Blank indicates no measurement taken; ND = no data.

Species	Year	Bay system												Coastwide No./ha Length												
		Galveston			East Matagorda			San Antonio			Aransas				Corpus Christi			Upper Laguna Madre			Lower Laguna Madre					
		No./ha	Length	Length	No./ha	Length	Length	No./ha	Length	Length	No./ha	Length	Length		No./ha	Length	Length	No./ha	Length	Length	No./ha	Length	Length	No./ha	Length	Length
Red drum	1977-78	9.85	50	ND	3.57	102	29.52	55	5.97	72	1.44	99	4.03	87	1.46	66	8.08	62								
	1978-79	6.02	111	ND	10.65	104	17.13	69	4.84	115	16.09	95	27.43	69	23.76	75	13.92	77								
	1979-80	70.09	77	ND	5.32	131	8.33	178	5.93	81	13.03	83	10.42	55	23.21	61	24.13	80								
	1980-81	8.80	78	ND	9.51	122	29.17	47	4.91	121	11.42	56	0.35	97	4.05	113	9.42	76								
	1981-82	38.11	91	ND	13.42	128	32.50	104	43.50	99	39.77	67	4.09	57	44.90	83	31.31	92								
1982-83	61.99	52	6.72 ^a	6.39	125	8.43	80	8.27	77	12.72	50	2.98	54	46.00	90	25.04 ^a	70									
Spotted seatrout	1977-78	39.41	61	ND	14.52	82	24.76	70	4.78	41	6.32	67	12.82	90	3.65	65	17.50	67								
	1978-79	38.89	77	ND	4.86	89	5.09	76	4.56	62	10.06	48	15.62	81	1.97	132	13.89	77								
	1979-80	13.55	71	ND	1.85	74	18.98	70	14.97	74	4.86	96	3.82	89	0.34	60	8.79	74								
	1980-81	13.89	74	ND	5.10	110	11.11	72	5.78	71	20.06	65	5.90	63	3.47	96	9.18	75								
	1981-82	10.56	83	ND	3.72	128	19.44	66	16.23	69	3.62	84	2.50	83	4.00	78	8.87	77								
1982-83	45.97	81	4.62 ^a	6.19	92	11.14	70	17.82	84	5.96	80	3.92	83	5.04	76	16.95 ^a	81									
Black drum	1977-78	30.54	92	ND	10.24	126	22.38	161	4.78	206	1.44	123	403	105	0.00		12.52	119								
	1978-79	37.04	77	ND	10.88	106	3.70	82	1.71	106	7.76	87	5.56	140	17.70	99	14.55	88								
	1979-80	8.88	133	ND	9.95	145	1.15	131	2.54	102	2.83	83	3.47	130	0.68	142	4.92	132								
	1980-81	9.26	102	ND	13.46	117	0.93	132	4.05	128	1.24	57	13.19	46	6.36	128	7.47	99								
	1981-82	7.39	139	ND	5.79	182	10.28	117	8.64	133	2.23	187	0.23	140	3.06	133	5.73	141								
1982-83	22.18	103	3.36 ^a	5.56	131	0.83	128	2.40	143	2.72	117	2.95	134	0.94	185	7.04 ^a	116									
Sheepshead	1977-78	1.97	368	ND	1.43	237	0.48	68	1.49	120	0.86	59	0.00		146	61	1.22	70								
	1978-79	15.74	95	ND	1.16	183	6.02	60	4.56	188	12.36	40	0.69	122	0.98	109	6.49	94								
	1979-80	2.34	124	ND	1.62	187	1.85	127	2.54	165	0.28	84	0.00		1.02	62	1.54	138								
	1980-81	1.85	270	ND	2.32	123	0.93	213	1.16	227	1.54	166	0.00		2.02	152	1.48	193								
	1981-82	3.69	301	ND	0.99	226	3.33	133	0.69	174	2.23	349	0.00		0.14	122	1.72	251								
1982-83	1.95	279	0.00 ^a	0.42	203	2.22	168	0.23	67	0.00	0.00	0.00		3.05	72	1.23 ^a	157									

Table 3. (Cont'd.).

Species	Year	Bay system												Coastwide No./ha Length												
		Galveston			East Matagorda			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	
Southern flounder	1977-78	7.39	63	ND	ND	0.71	143	3.33	36	0.60	228	0.57	44	0.37	127	1.09	45	2.52	67							
	1978-79	2.31	240	ND	ND	0.46	272	2.31	86	0.00		0.57	100	2.78	106	1.31	38	1.45	150							
	1979-80	9.81	54	ND	ND	0.93	99	2.31	56	0.85	300	3.68	106	1.74	82	4.78	38	3.97	67							
	1980-81	6.94	119	ND	ND	8.83	103	2.78	112	2.31	84	1.24	115	1.39	66	10.98	70	5.40	97							
	1981-82	9.93	71	ND	ND	3.81	125	6.67	96	19.01	73	1.72	62	1.37	77	14.66	49	8.73	73							
1982-83	9.82	77	1.47 ^a	58	2.64	113	2.77	80	6.03	46	1.09	33	0.83	114	1.77	98	4.27 ^a	74								
Atlantic croaker	1977-78	298.52	64	ND	ND	225.00	57	9.05	104	36.42	73	3.74	49	11.36	87	10.58	50	111.61	63							
	1978-79	466.20	52	ND	ND	107.87	73	52.78	48	6.84	75	25.86	71	2.78	92	239.02	49	164.67	54							
	1979-80	1086.92	56	ND	ND	84.26	59	16.67	89	16.67	61	24.08	48	0.69	40	197.61	42	291.29	55							
	1980-81	566.20	63	ND	ND	27.61	98	22.68	86	6.94	85	20.68	75	0.35	70	28.61	57	141.20	65							
	1981-82	1861.80	60	ND	ND	163.56	73	66.11	67	153.08	59	24.22	66	0.68	140	43.65	55	482.23	61							
1982-83	879.50	54	73.74 ^a	79	239.03	67	48.75	75	65.28	58	17.80	29	2.19	86	66.77	44	261.30 ^a	57								
Sand seatrout	1977-78	11.53	58	ND	ND	2.77	62	0.00		0.00		0.00		0.00		0.00		3.02	67							
	1978-79	31.02	60	ND	ND	15.51	65	2.32	75	0.00		0.86	77	0.00		0.00		9.74	67							
	1979-80	14.45	53	ND	ND	8.46	81	0.00		0.57	47	0.00		0.00		0.00		4.65	61							
	1980-81	22.22	60	ND	ND	1.86	73	0.46	64	0.00		0.28	47	0.00		0.27	78	5.40	66							
	1981-82	44.87	56	ND	ND	11.11	67	0.28	35	0.52	76	0.86	84	0.00		0.31	56	12.05	61							
1982-83	40.40	55	3.46 ^a	53	29.30	64	0.00		0.69	70	1.84	53	0.00		0.16	85	13.93 ^a	62								

^aEast Matagorda Bay data are only for February-September 1983. Coastwide values do not include East Matagorda Bay data.

Figure 1. Texas bay systems.

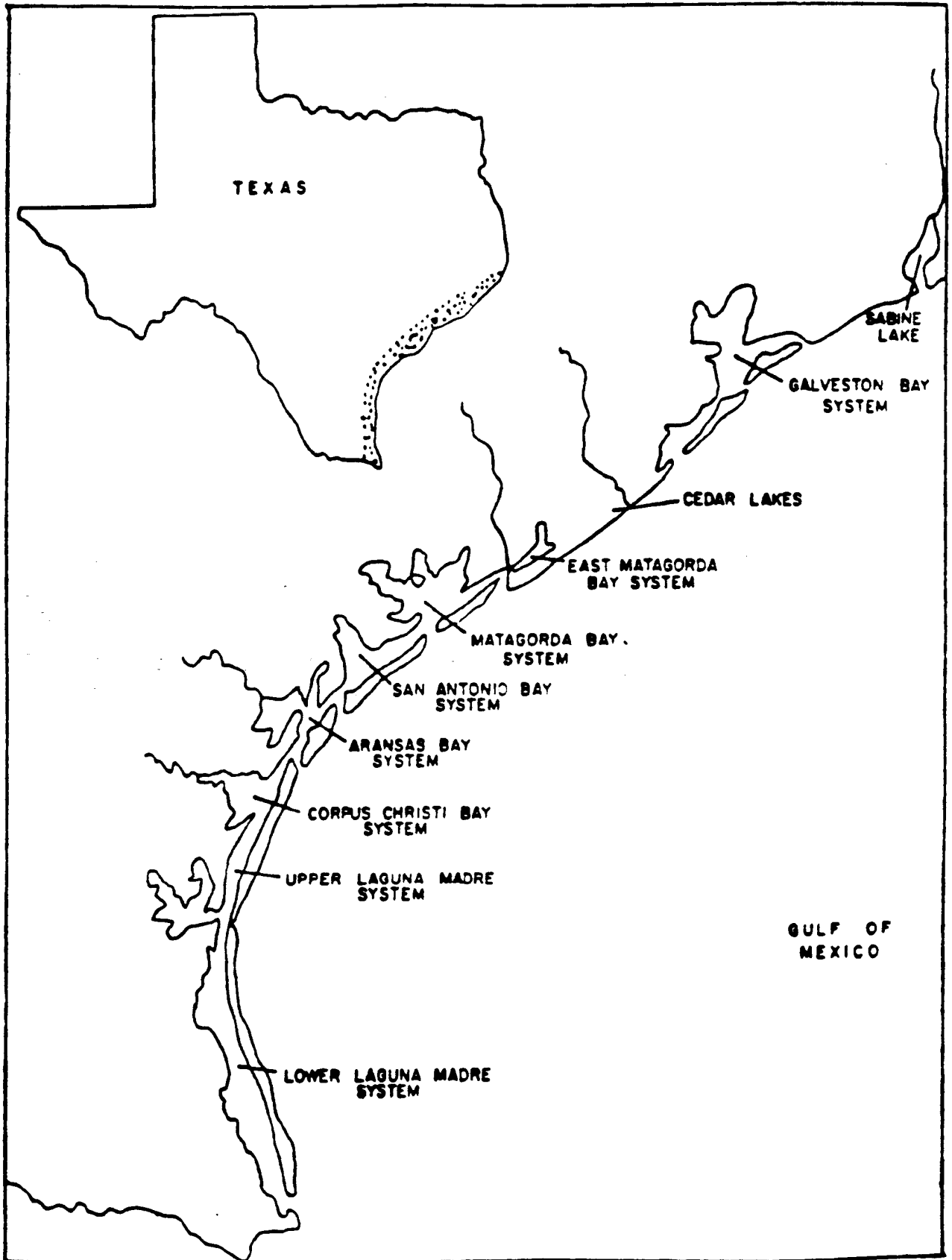


Figure 2. Gill net sample sites in the Galveston Bay system,
September 1983-June 1984.

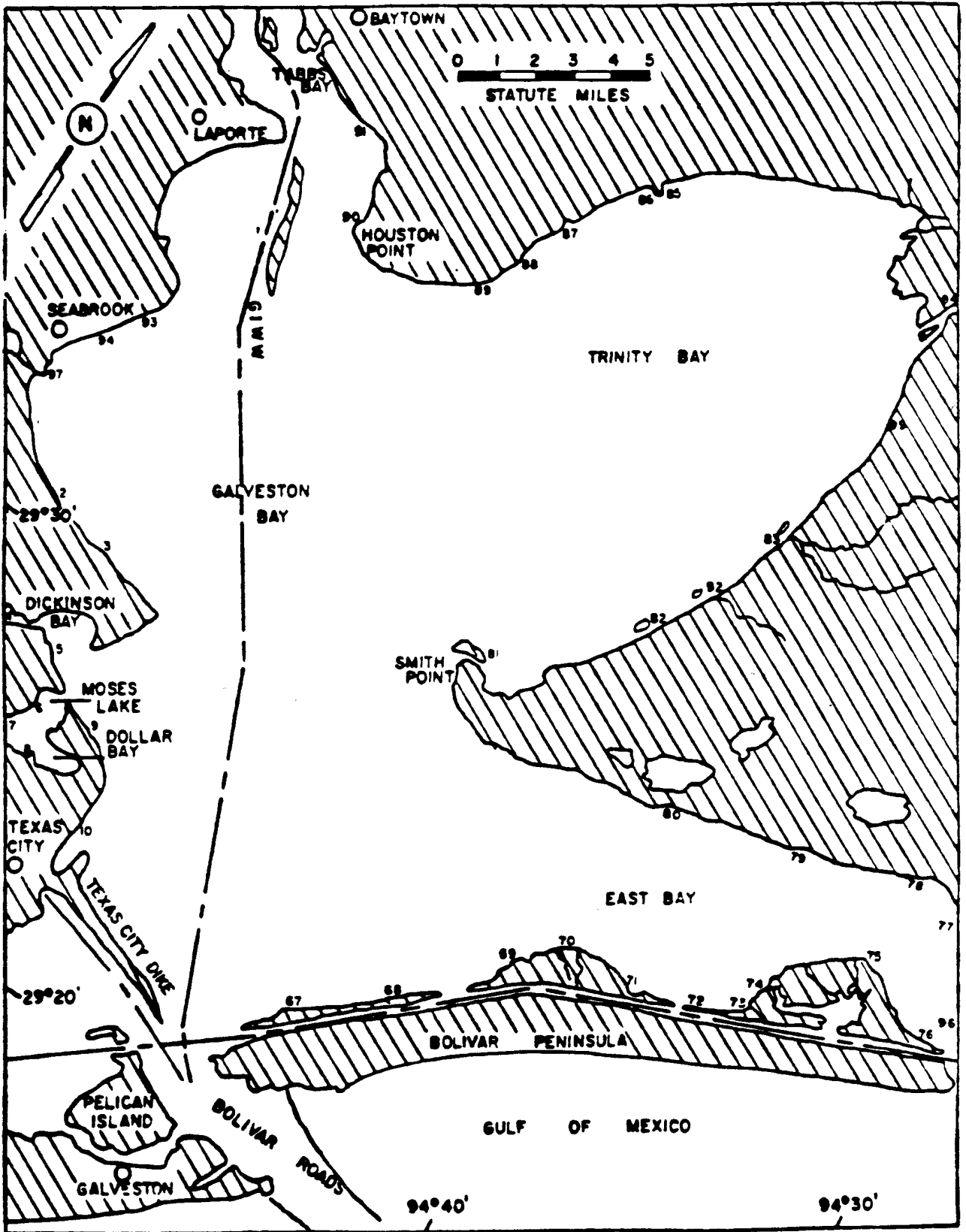


Figure 3. Gill net sample sites in the Galveston Bay system,
September 1983-June 1984.

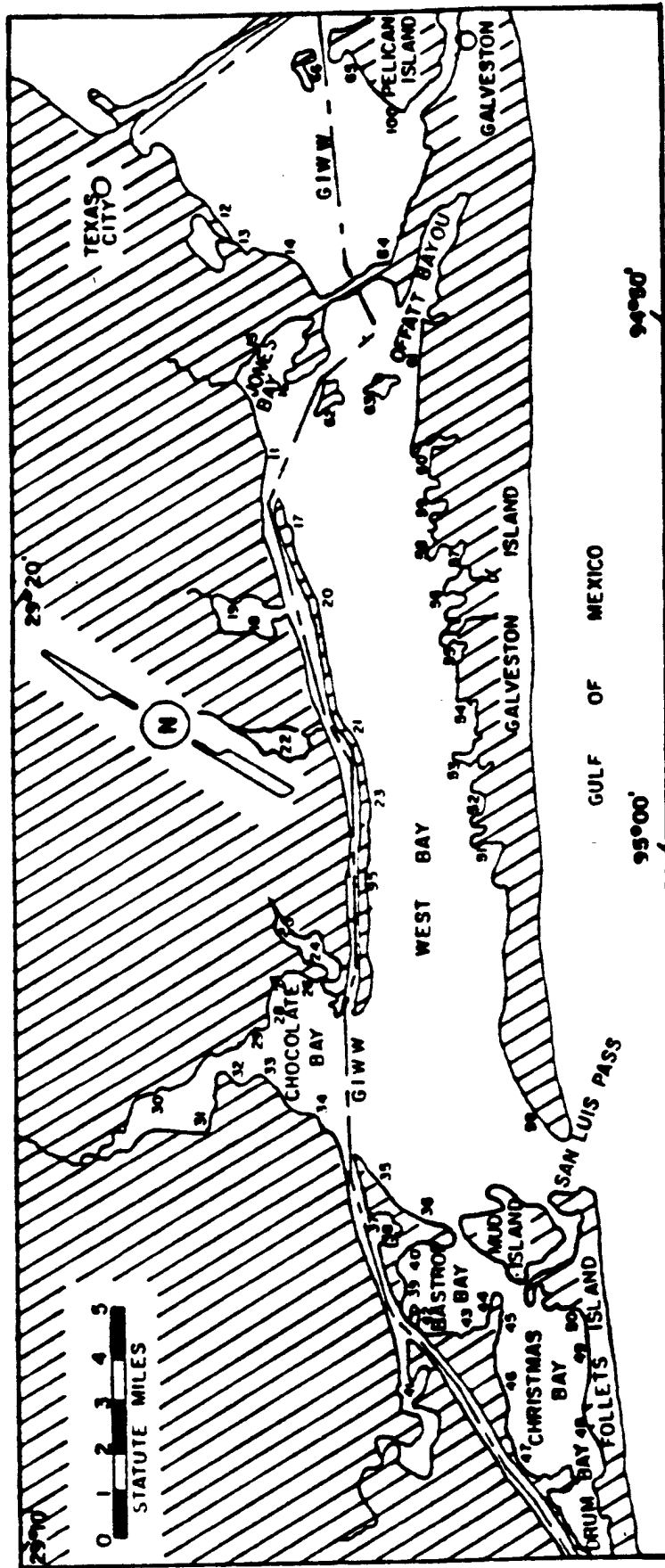


Figure 4. Gill net sample sites in the East Matagorda Bay system,
September 1983-June 1984.

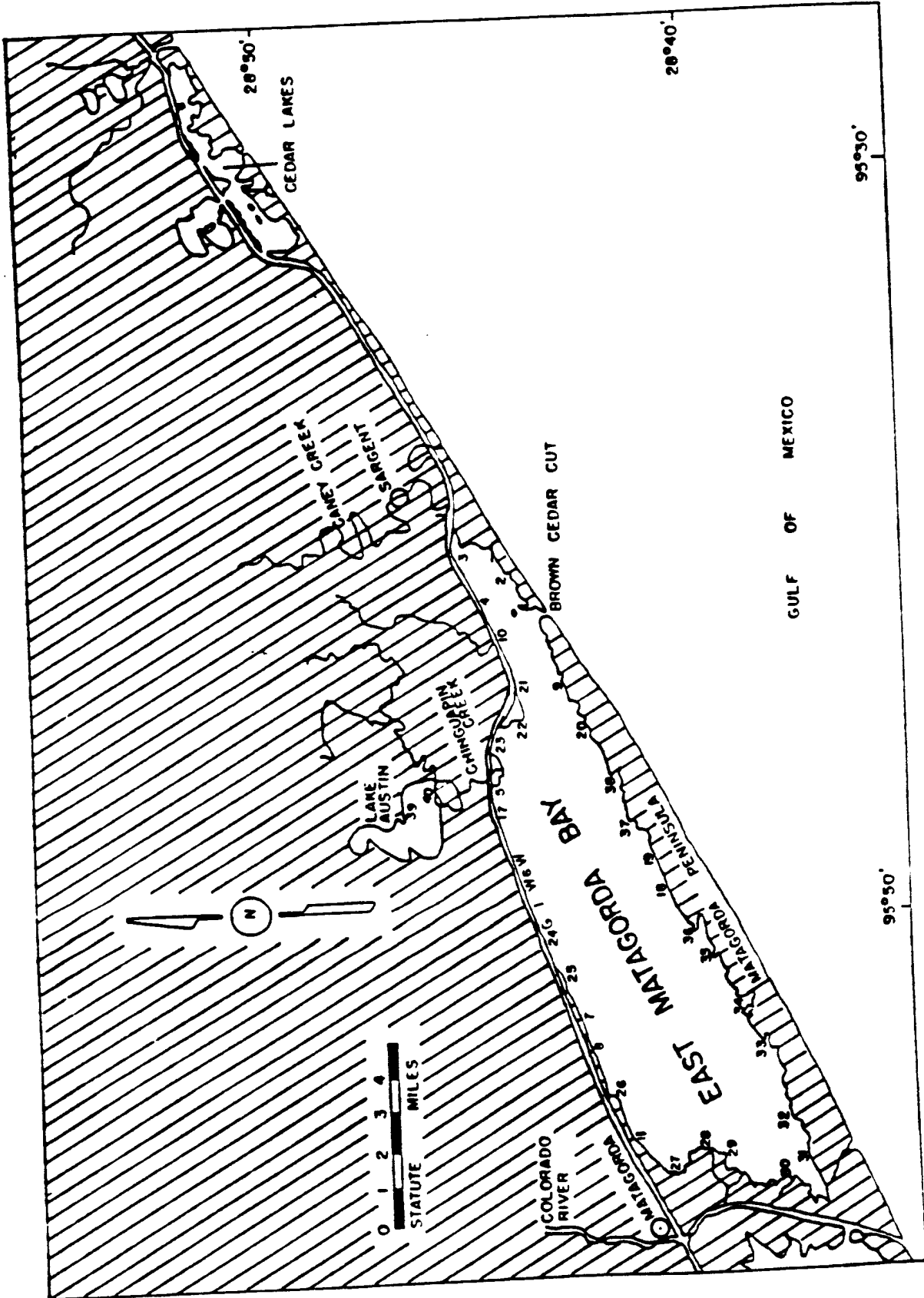


Figure 5. Gill net sample sites in the Matagorda Bay system,
September 1983-June 1984.

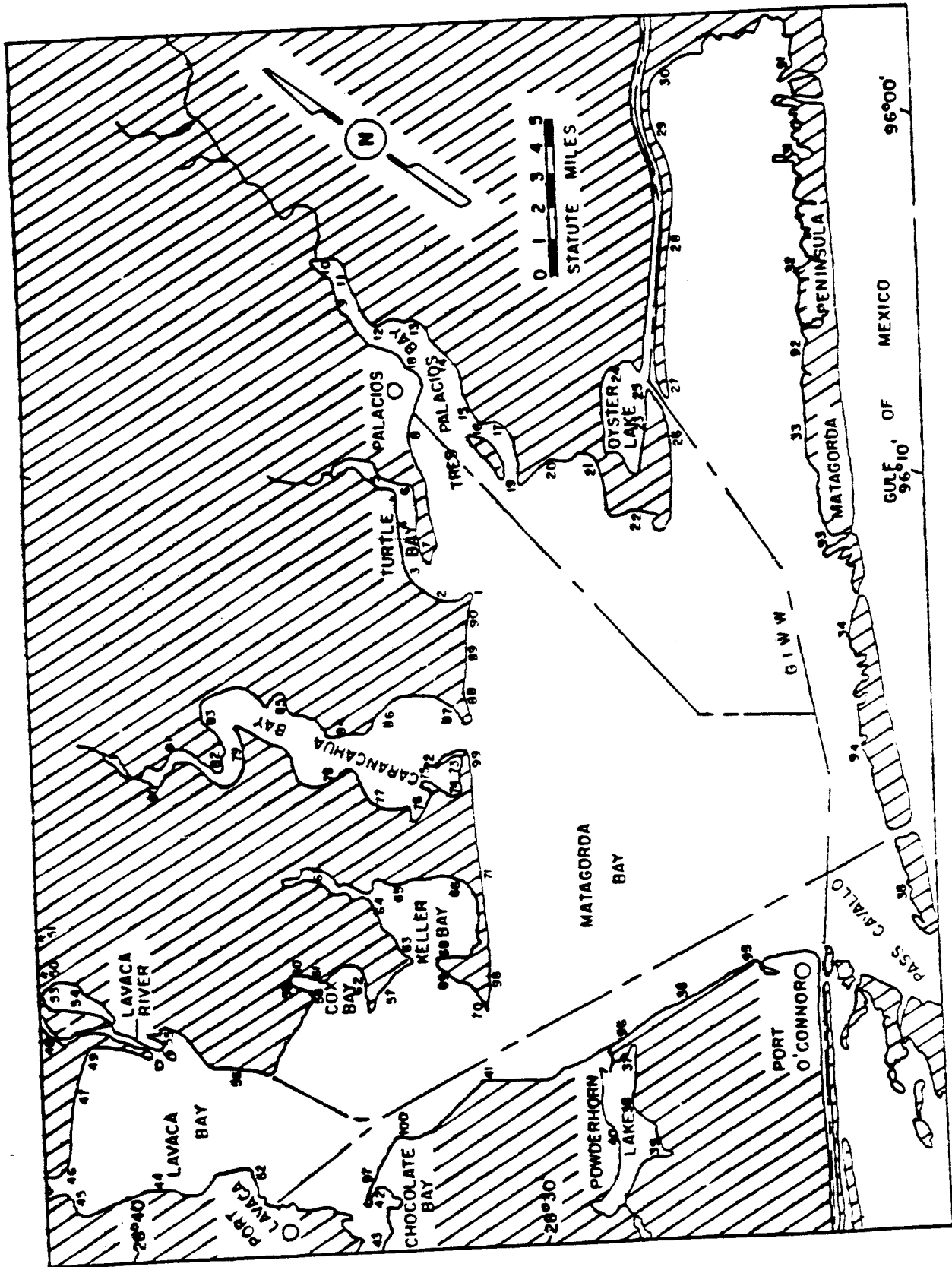


Figure 6. Gill net sample sites in the San Antonio Bay system,
September 1983-June 1984.

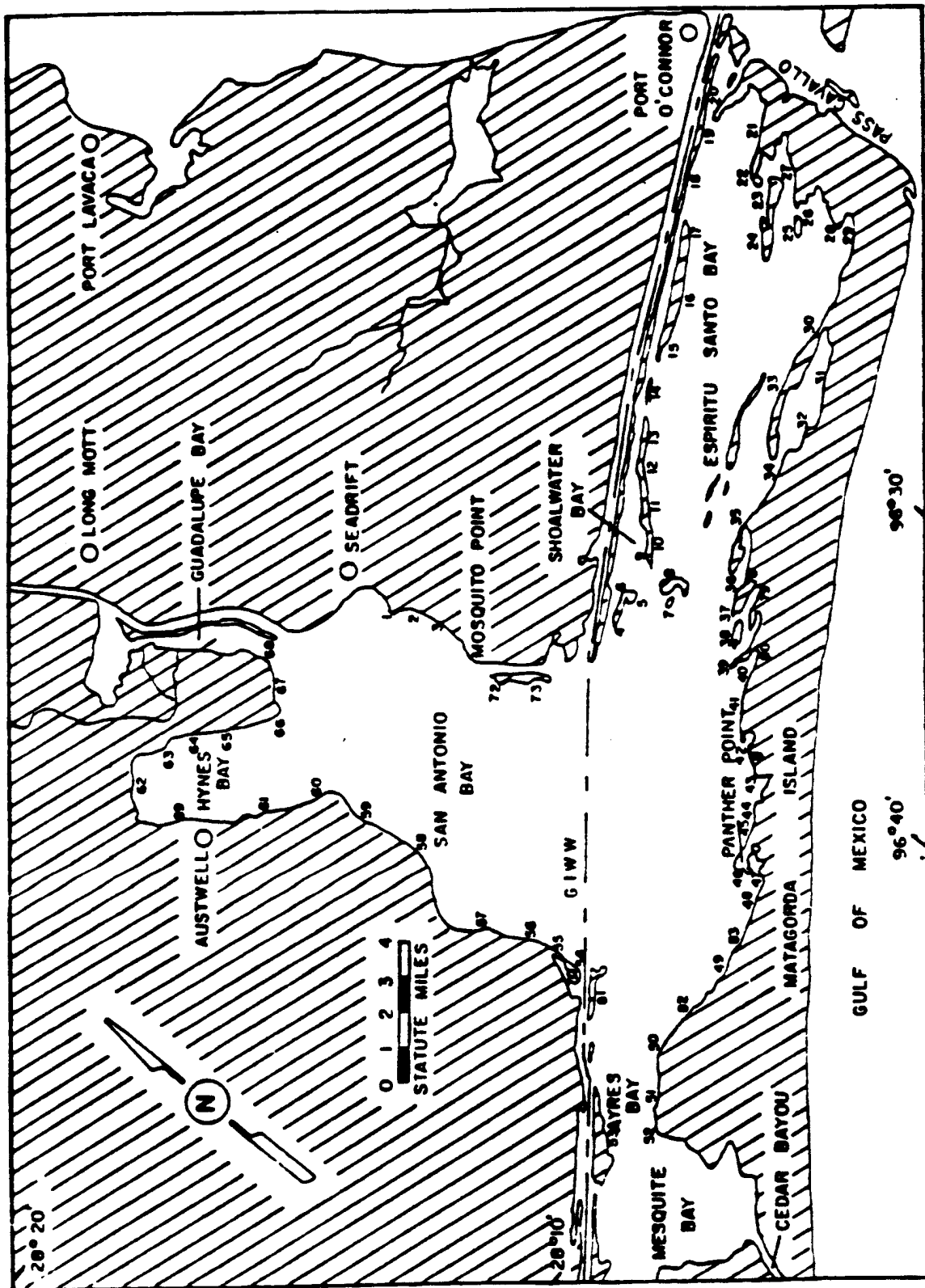


Figure 7. Gill net sample sites in the Aransas Bay system,
September 1983-June 1984.

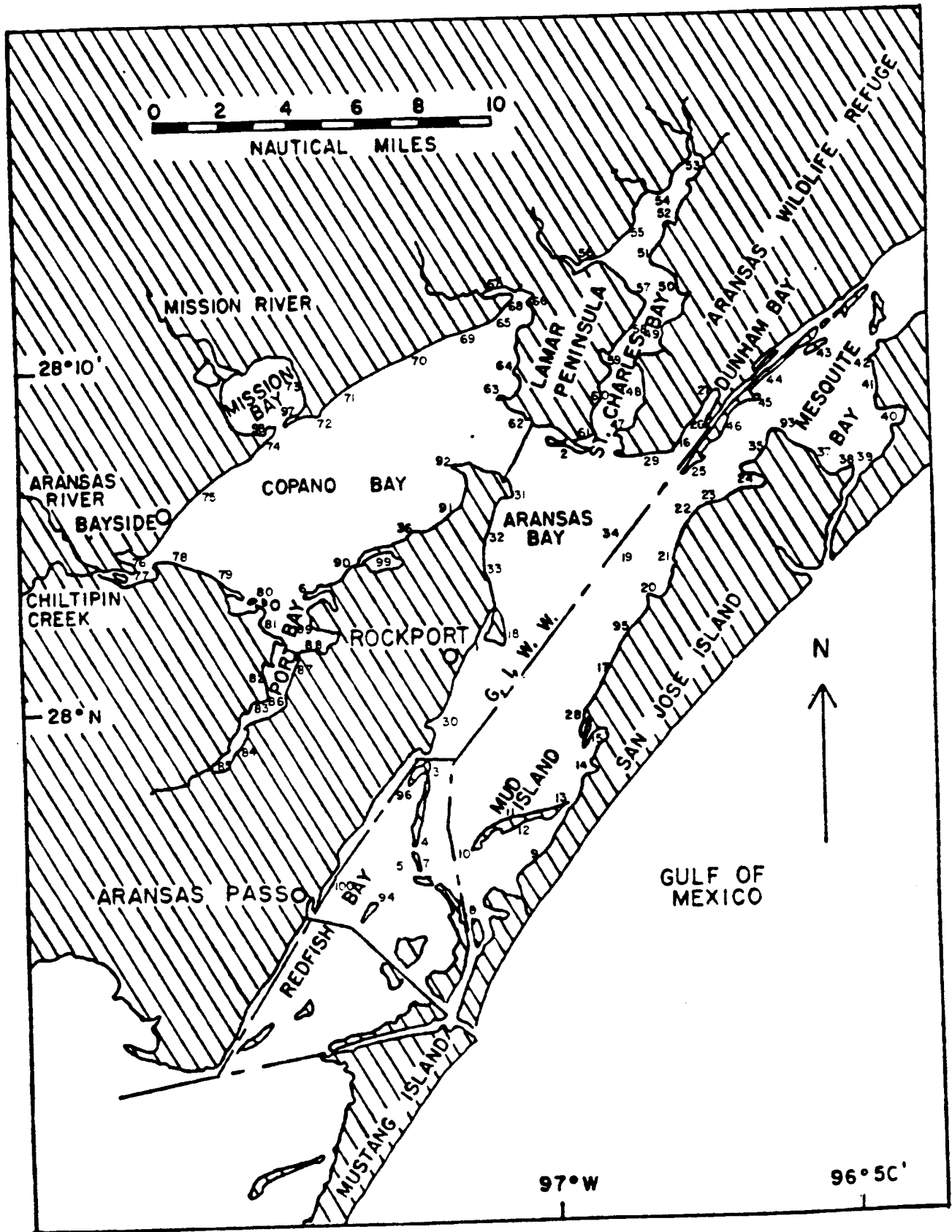


Figure 8. Gill net sample sites in the Corpus Christi Bay system,
September 1983-June 1984.

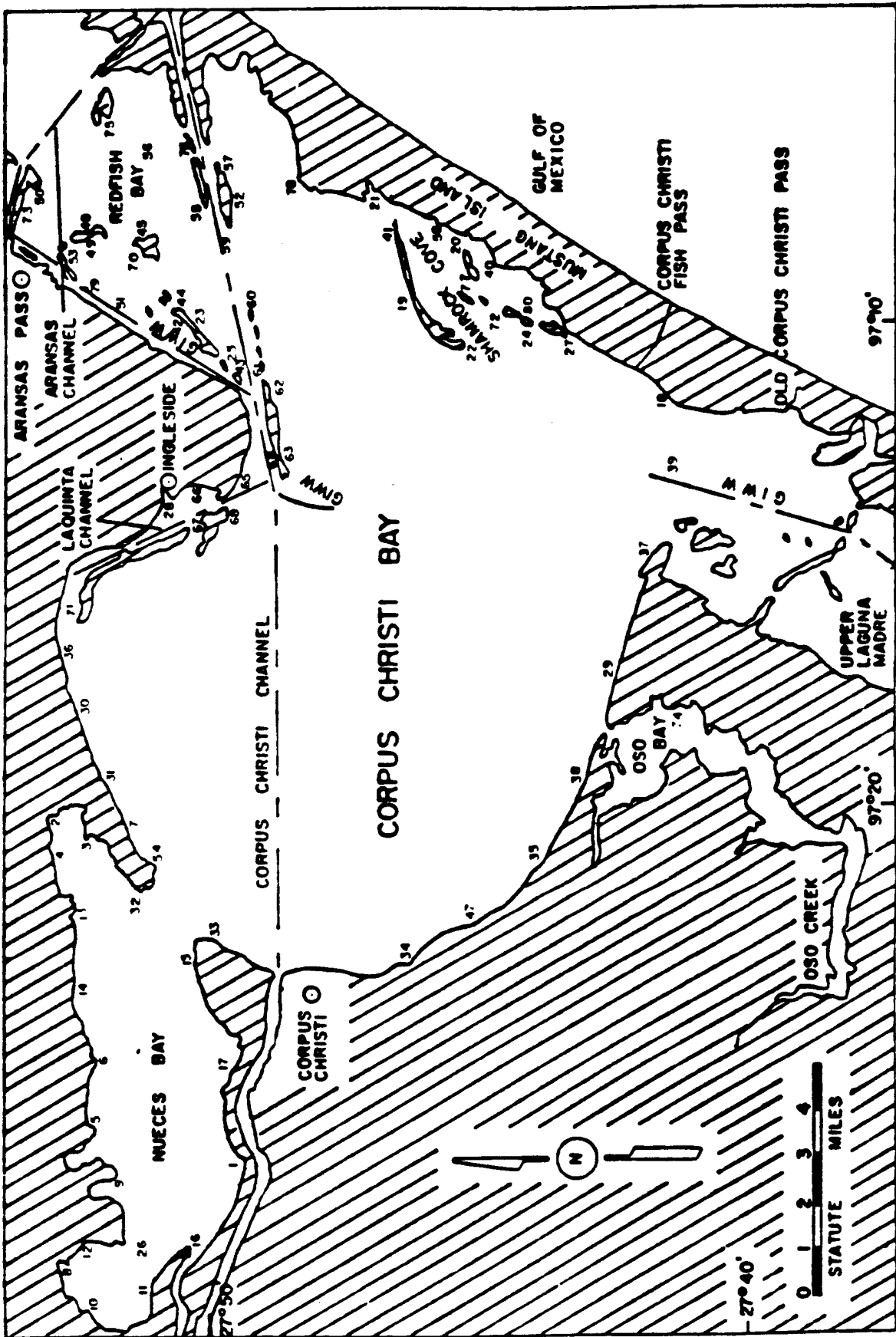


Figure 9. Gill net sample sites in the upper Laguna Madre bay system, September 1983-June 1984.

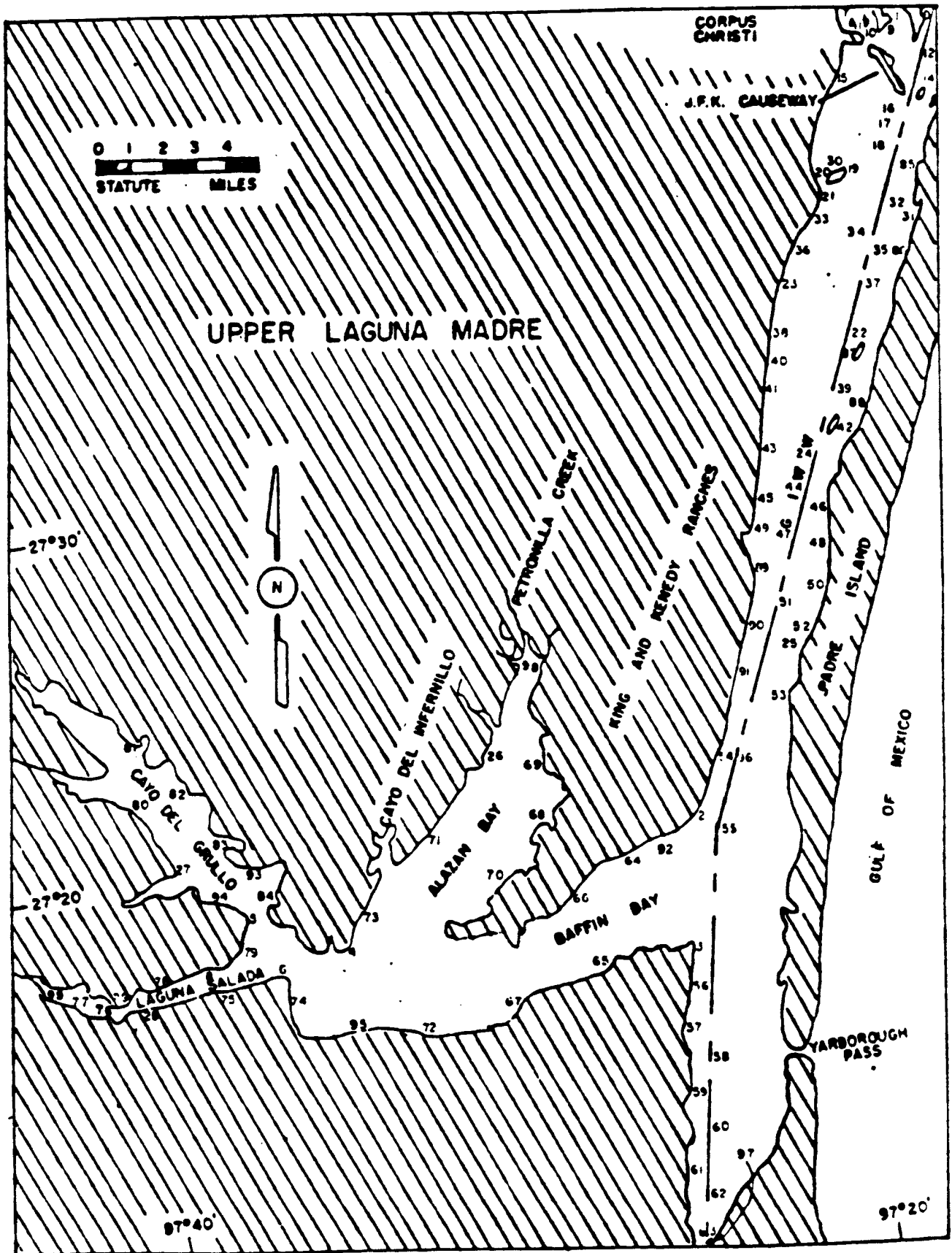


Figure 10. Gill net sample sites in the lower Laguna Madre bay system, September 1983-June 1984.

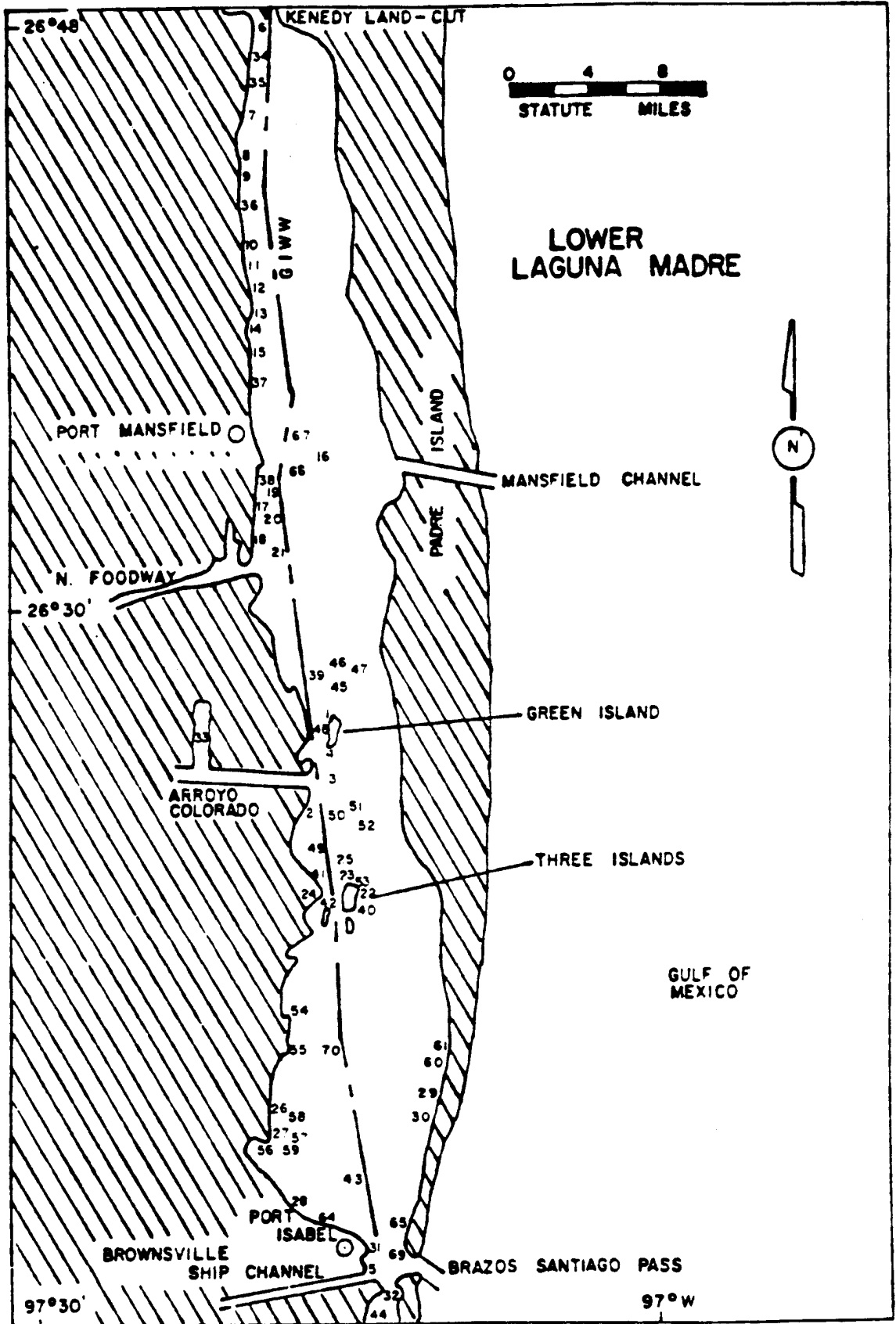


Figure 11. Bag seine sample sites in the Galveston Bay system (each number should be preceded by the digit 2 except site 300), October 1982-September 1983.

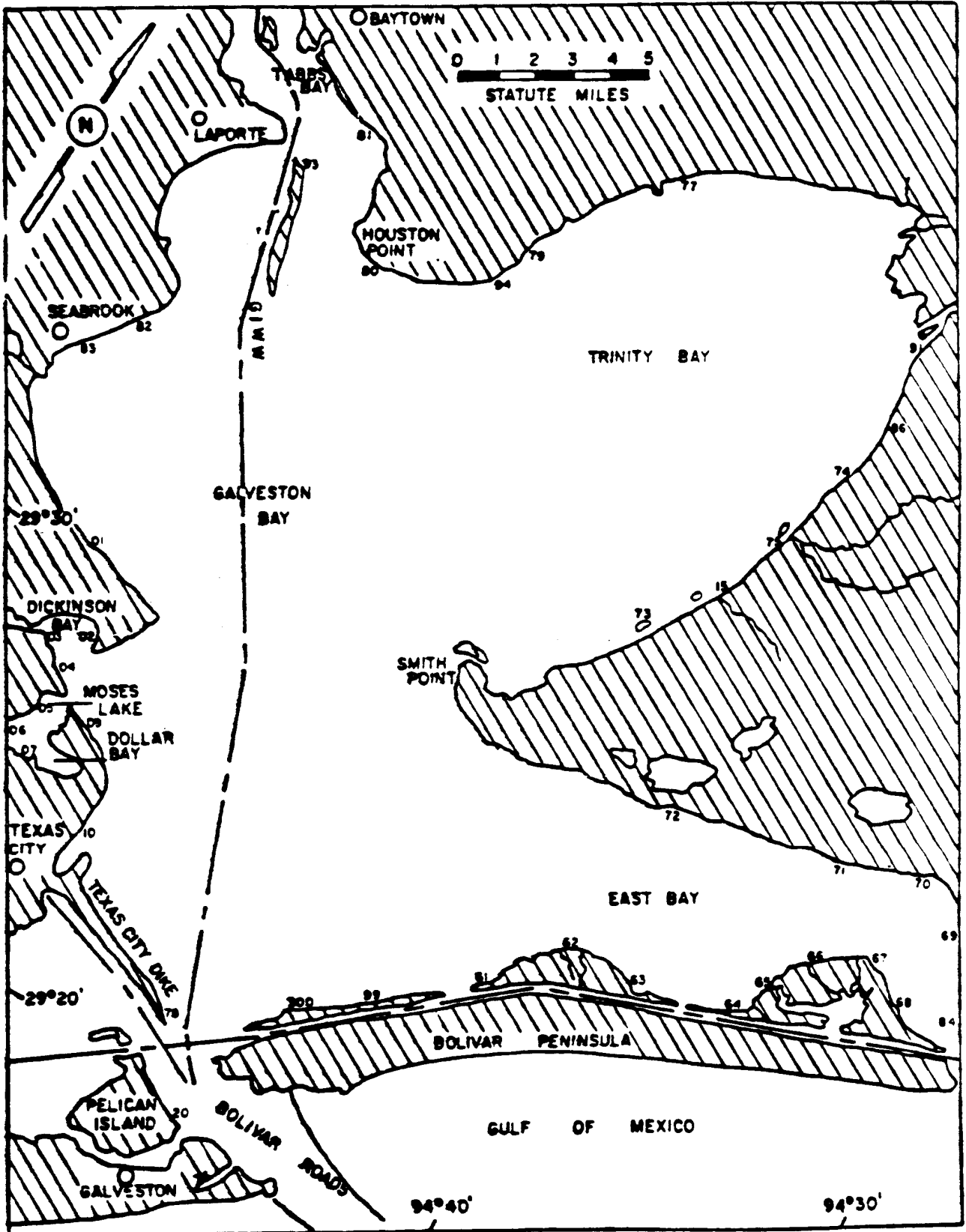


Figure 12. Bag seine sample sites in the Galveston Bay system (each number should be preceded by the digit 2), October 1982-September 1983.

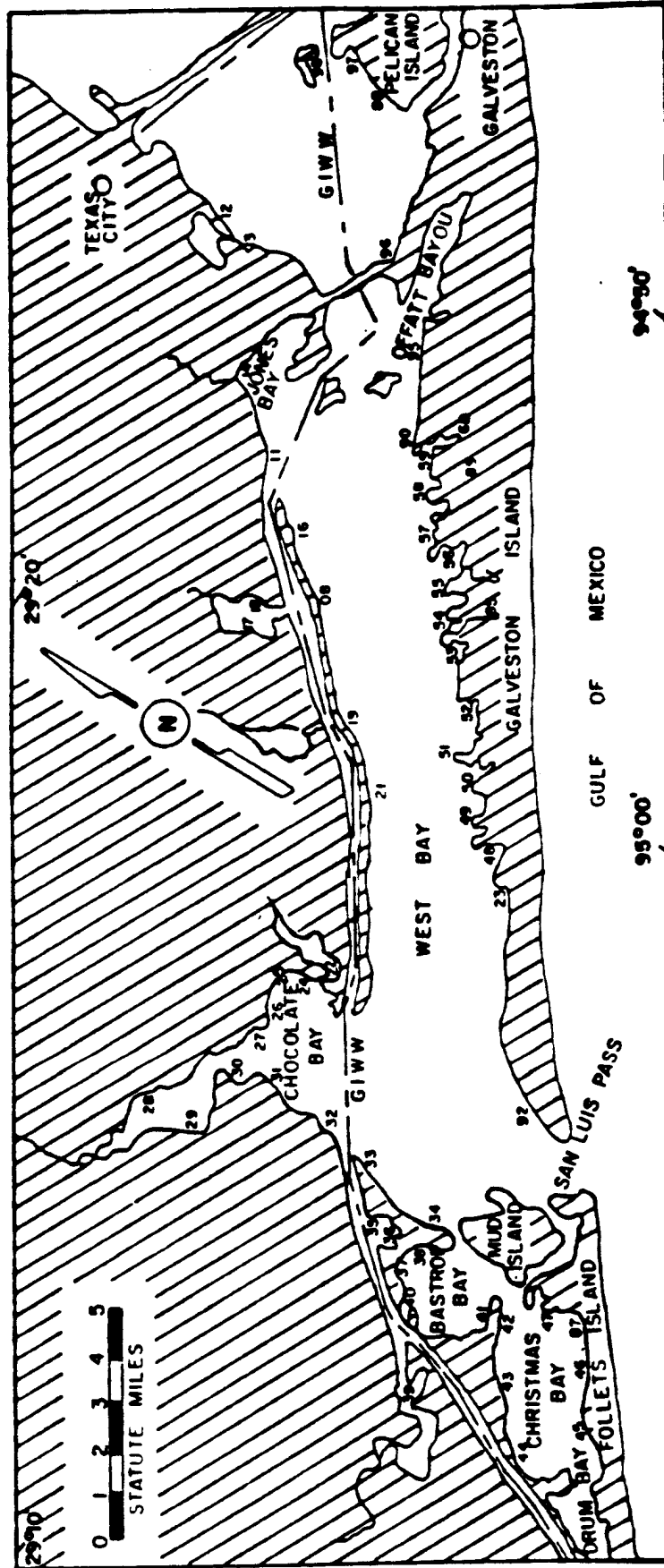


Figure 13. Bag seine sample sites in the East Matagorda Bay system (each number should be preceded by the digit 2), October 1982-September 1983.

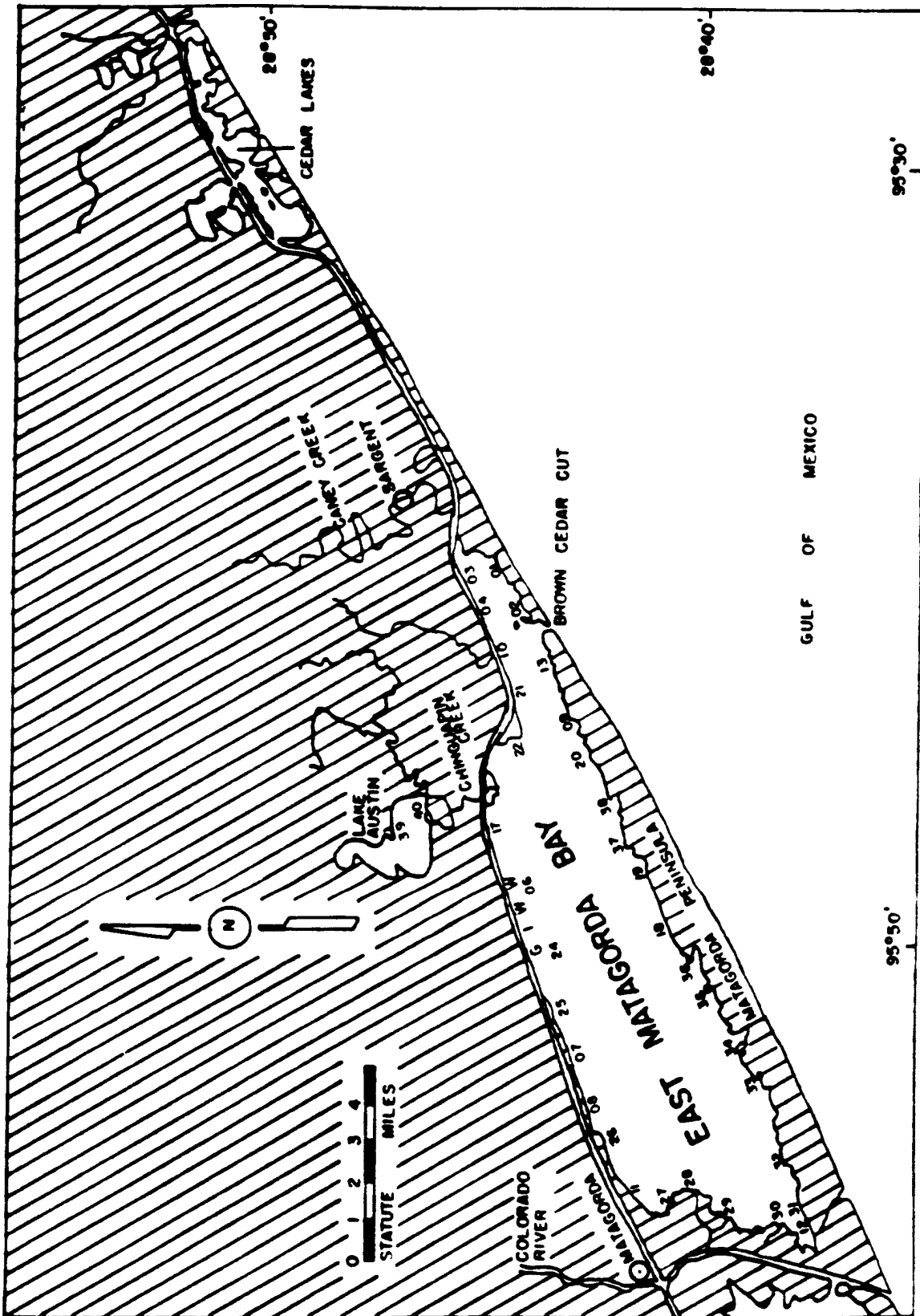


Figure 14. Bag seine sample sites in the Matagorda Bay system (each number should be preceded by the digit 2 except for site 300), October 1982-September 1983.

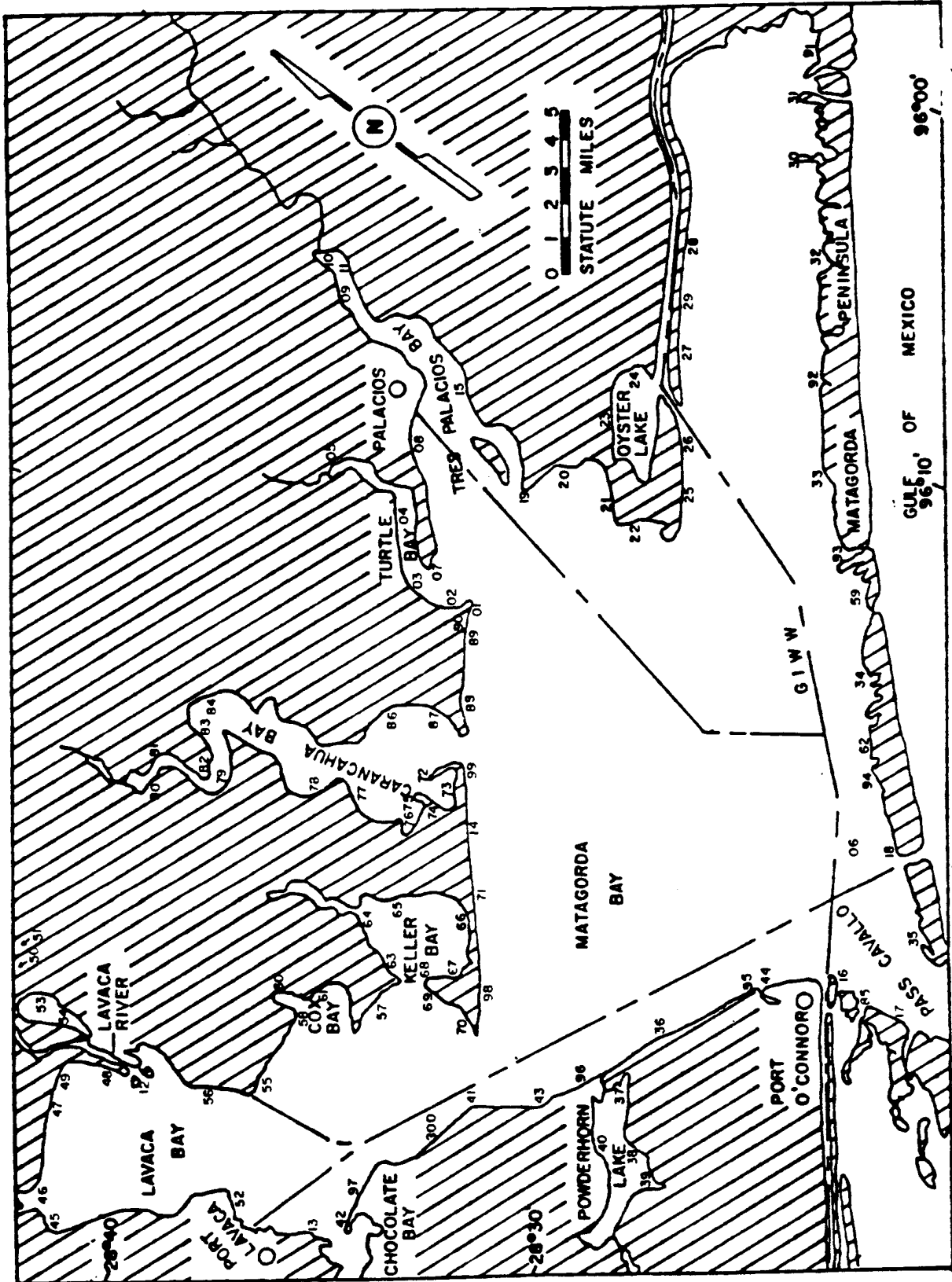


Figure 15. Bag seine sample sites in the San Antonio Bay system (each number should be preceded by the digit 2), October 1982-September 1983.

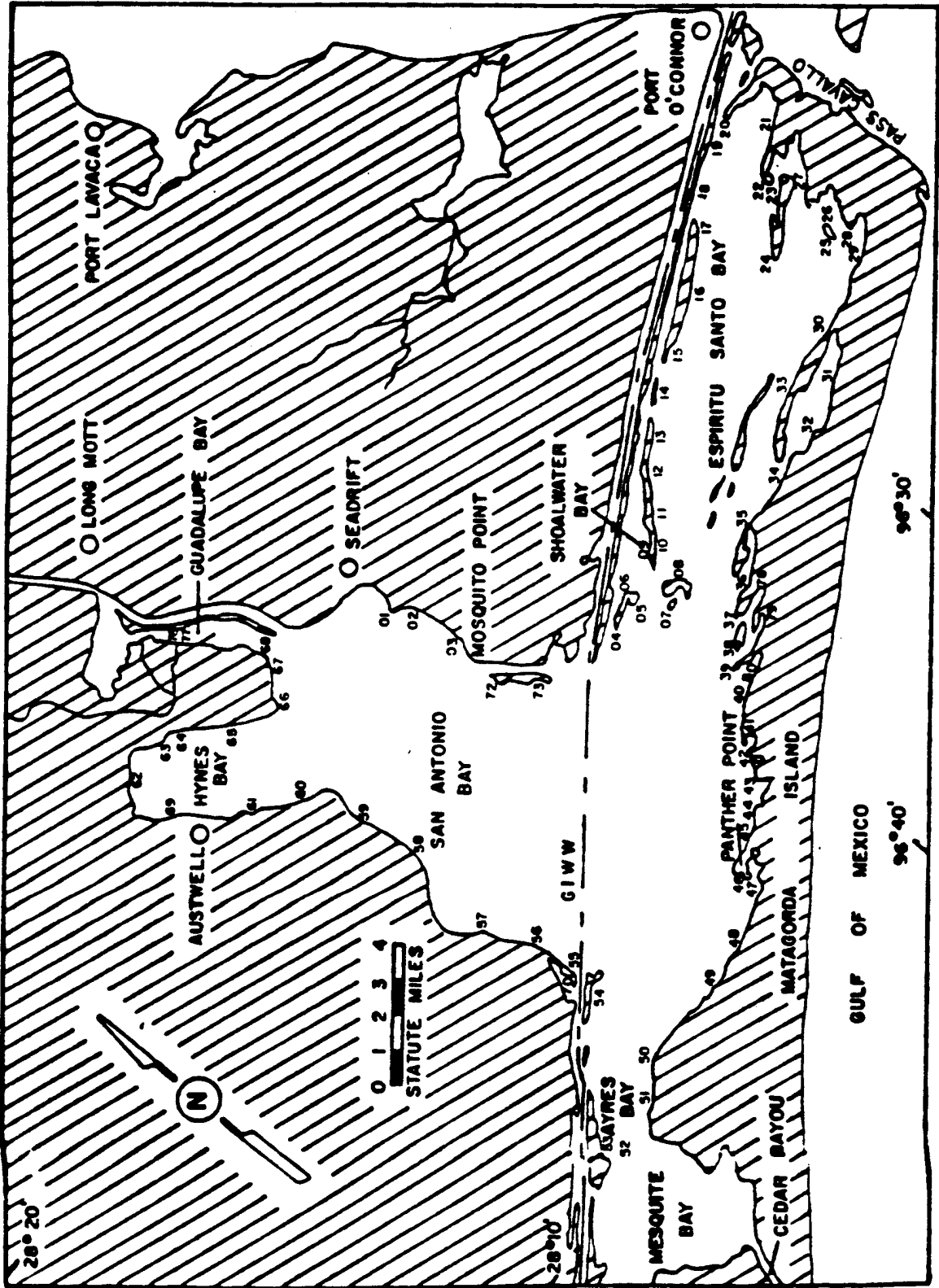


Figure 16. Bag seine sample sites in the Aransas Bay system (each number should be preceded by the digit 2), October 1982-September 1983.

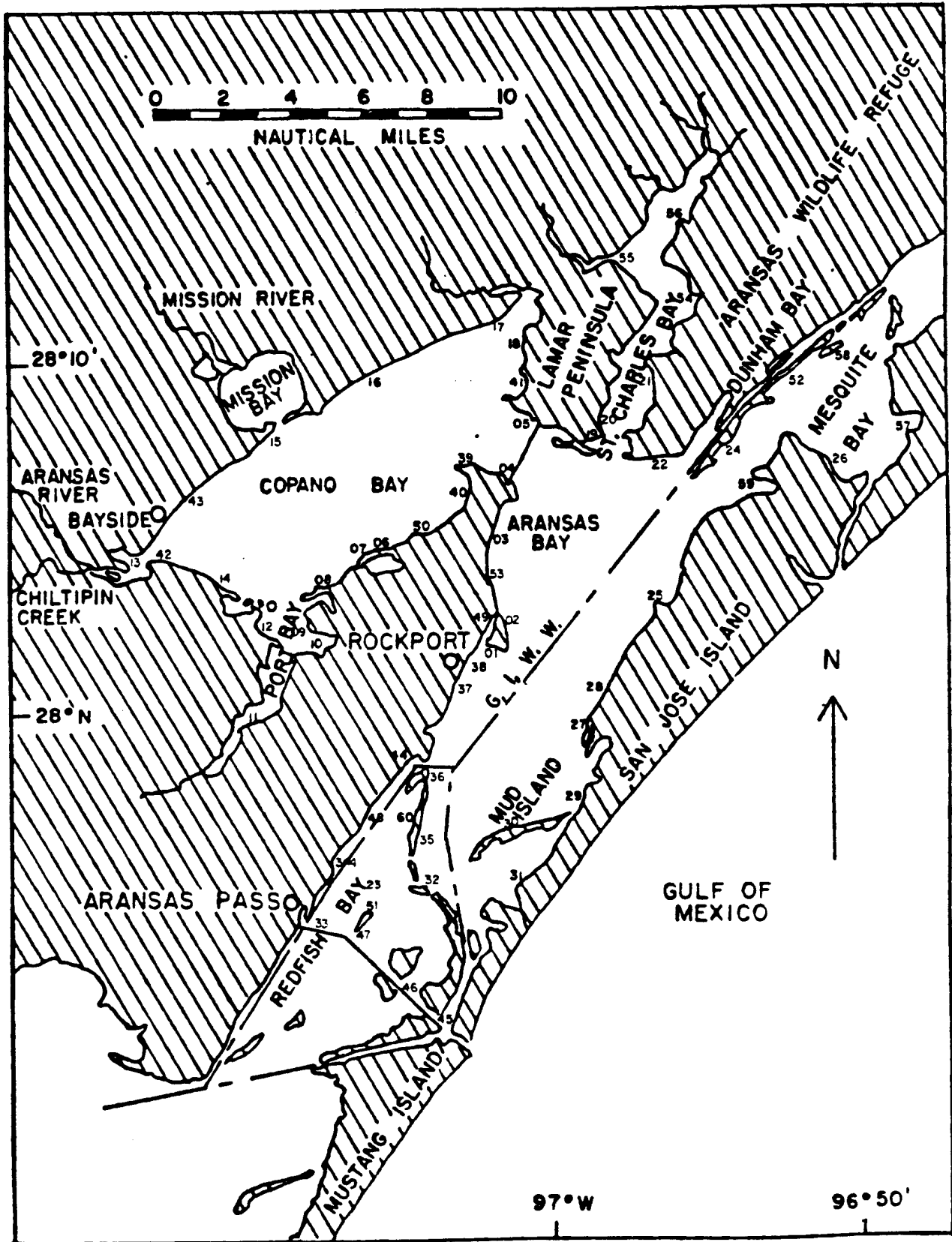


Figure 17. Bag seine sample sites in the Corpus Christi Bay system (each number should be preceded by the digit 2), October 1982-September 1983.

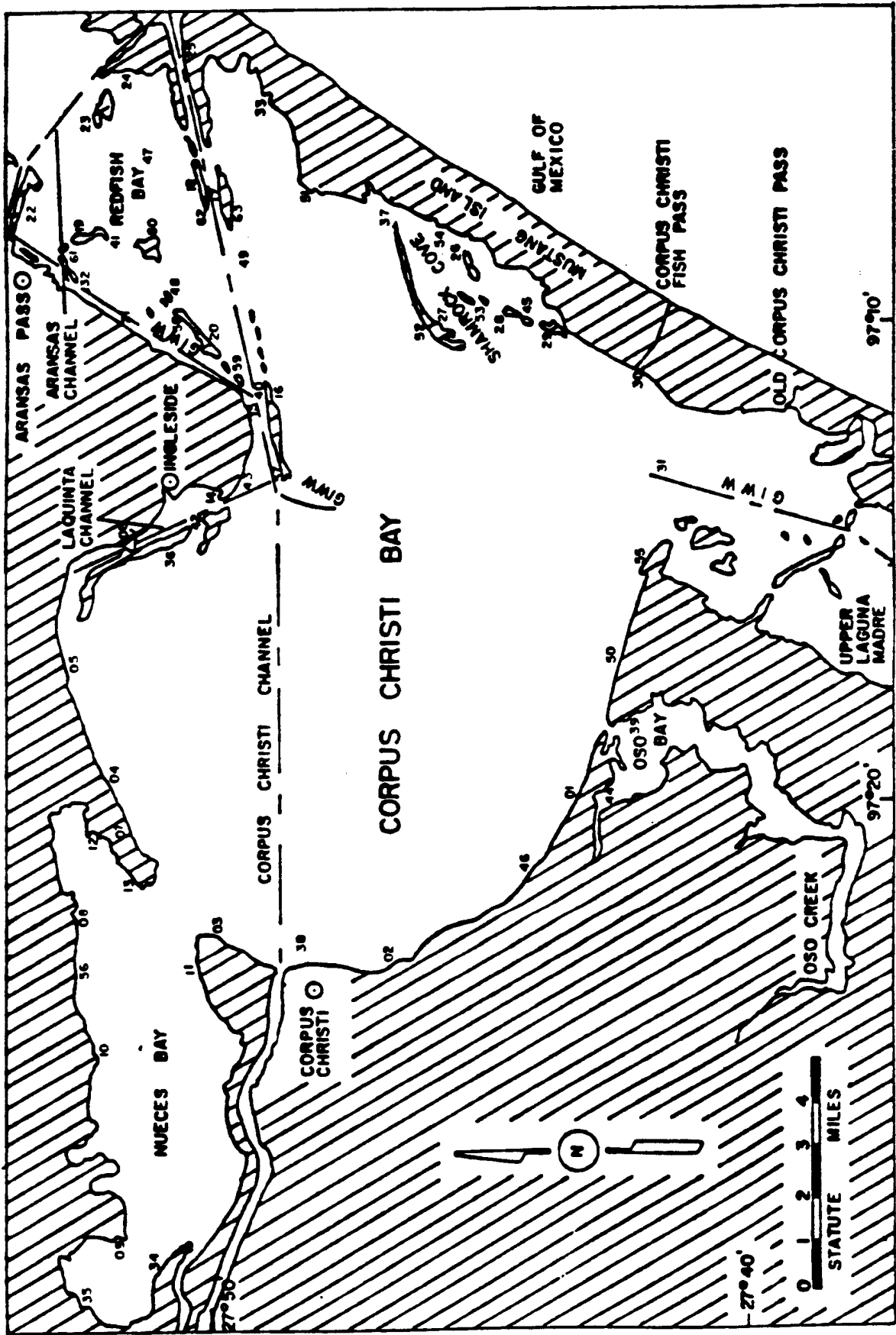


Figure 18. Bag seine sample sites in the upper Laguna Madre bay system (each station should be preceded by the digit 2), October 1982-September 1983.

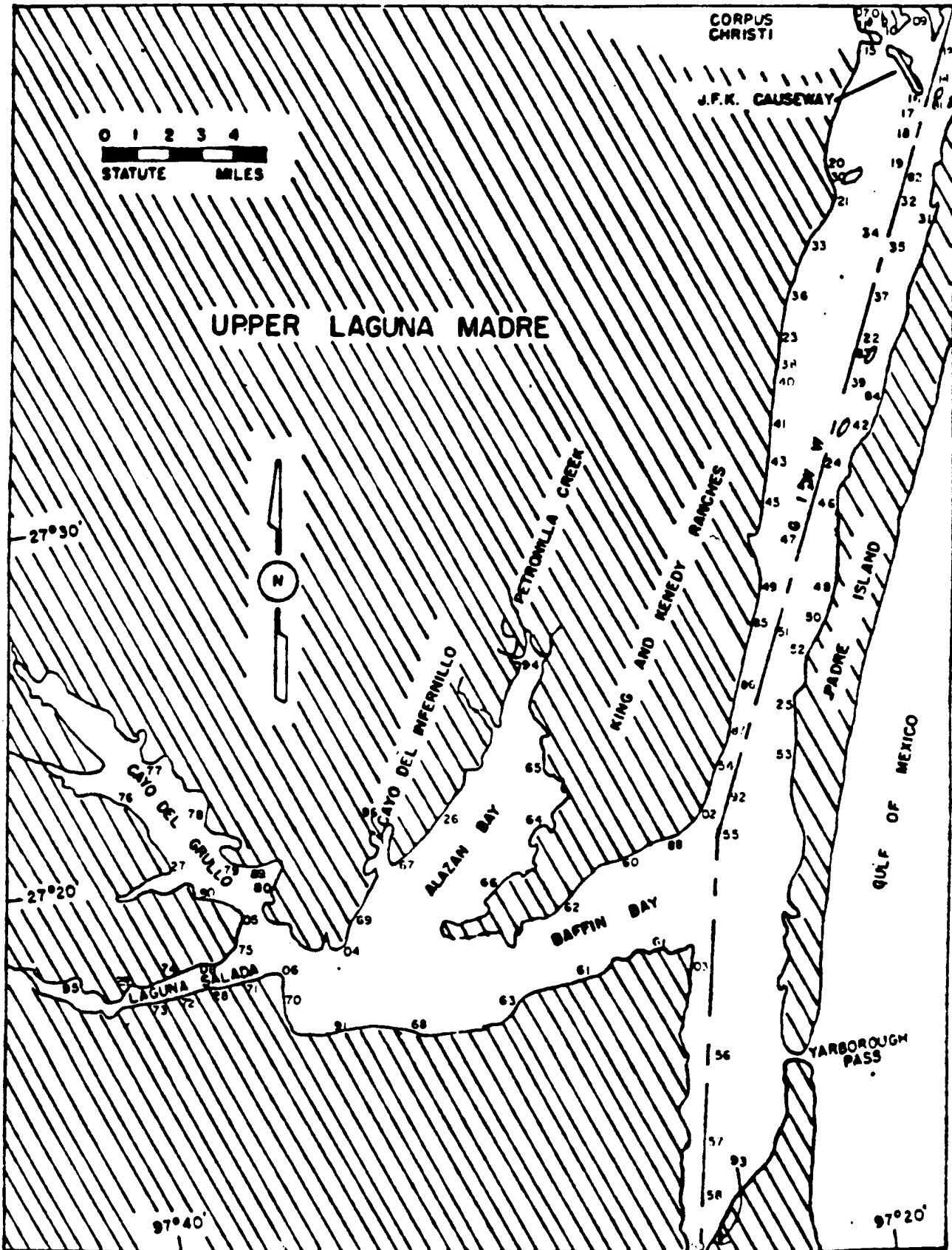
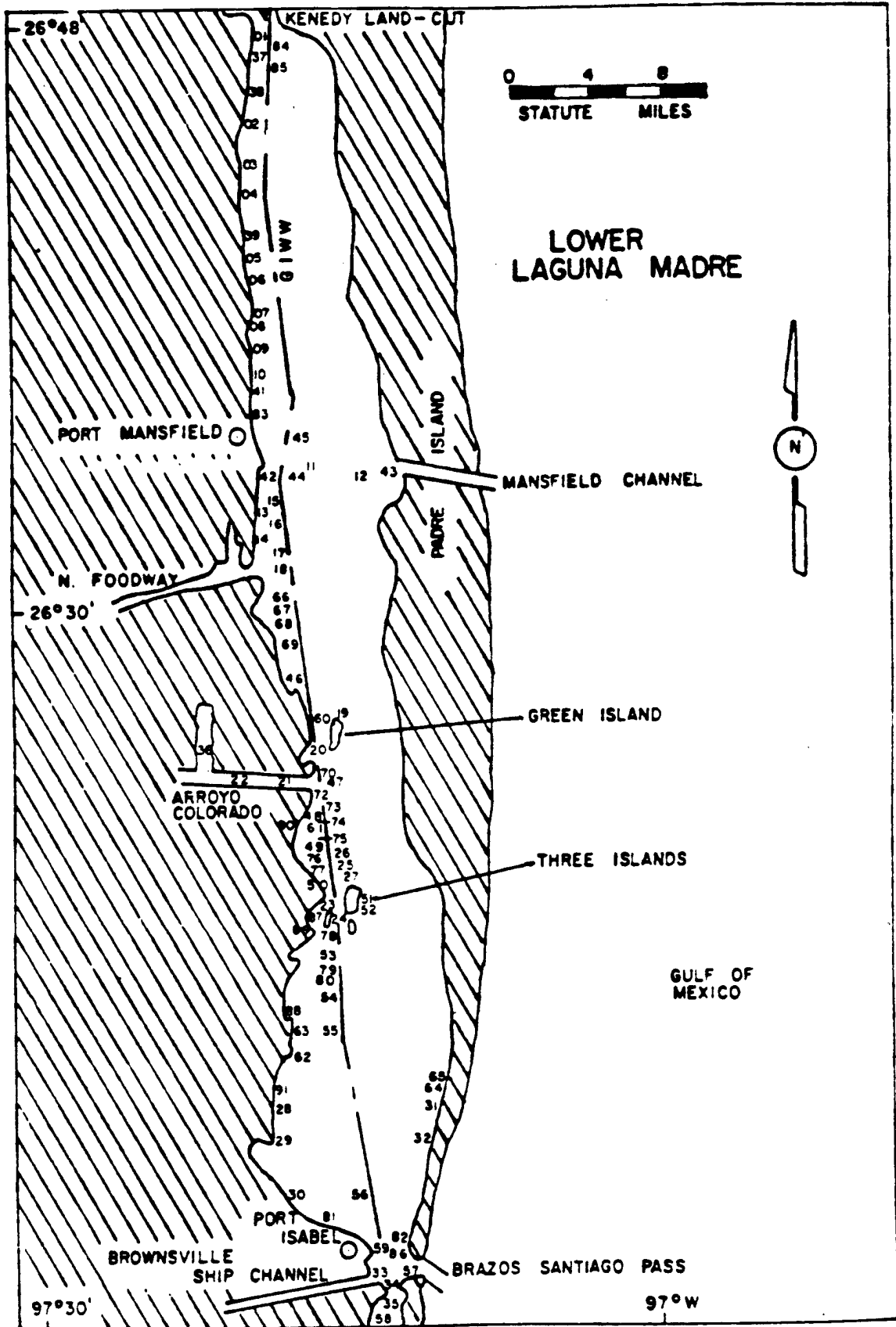


Figure 19. Bag seine sample sites in the lower Laguna Madre bay system (each number should be preceded by the digit 2), October 1982-September 1983.



Appendix A. Gill net site identification.

Table A.1. Gill net sites in each bay system.

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Galveston	Galveston	1	29°32'05"	95°00'35"	1.0 mile SE of Clear Creek entrance channel
	Galveston	2	29°30'50"	95°59'00"	0.3 mile W of surfaced ramp in Bacliff, Texas
	Galveston	3	29°30'20"	94°57'05"	0.3 mile E of HL & P Company's P. H. Robinson Generation Station's discharge canal
	Dickinson	4	29°28'00"	94°57'30"	N shoreline of Dickinson Bayou
	Dickinson	5	29°27'45"	94°56'40"	0.5 mile SE of junction of Dickinson Bayou and Bay
	Moses Lake	6	29°26'10"	94°56'10"	NW shore of Moses Lake
	Moses Lake	7	29°25'40"	95°57'05"	NW of Mouth of Moses Bayou
	Moses Lake	8	29°25'20"	94°56'20"	S shore of Moses Lake
	Galveston	9	29°26'25"	95°54'10"	1.0 mile W of Dollar Point
	Galveston	10	29°24'15"	95°54'15"	0.8 mile N of Texas City Dike
	West	11	29°18'00"	94°56'50"	0.2 mile NE of Brasford Bayou
	Galveston	12	29°20'35"	94°53'40"	0.5 mile N of Campbell Bayou SE of Campbell Bayou
	Galveston	13	29°20'00"	94°53'50"	SE of Campbell Bayou
	Galveston	14	29°19'20"	94°53'35"	0.8 mile SE of Campbell Bayou
	Jones Lake	15	29°18'45"	94°55'45"	0.6 mile E of Highland Bayou
	Jones Lake	16	29°17'25"	94°56'05"	N shore of Spoil Island, ICWW Marker 54
	West	17	29°16'40"	94°58'35"	SE shore of spoil bank, SE shore of Spoil Island, ICWW Marker 54
	Greens Lake	18	29°15'45"	94°59'55"	0.9 mile NE of Greens Cut SW shore of Greens Lake, 0.3 mile W of mouth
	Greens Lake	19	29°16'35"	94°59'35"	Greens Lake, NE of mouth
	West	20	29°16'05"	94°59'05"	SE shore of spoil bank W of Greens Cut
	West	21	29°14'15"	95°00'55"	0.2 mile SW of Carancahua Cut
	Carancahua Lake	22	29°14'20"	95°01'35"	S shore of Carancahua Lake
	West	23	29°13'10"	95°01'45"	Carancahua Point
	Halls Lake	24	29°10'45"	95°06'20"	0.2 mile SE of The Narrows
	Halls Lake	25	29°11'15"	95°05'45"	E shore of Halls Lake
	Chocolate	26	29°11'15"	95°06'35"	0.3 mile NW of The Narrows
	Chocolate	27	29°11'45"	95°07'10"	0.2 mile E of Amerada Cut

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Galveston	Chocolate	28	29°11'40"	95°07'40"	0.1 mile SW of New Bayou
	Chocolate	29	29°11'40"	95°08'25"	0.5 mile E of Shell Point
	Chocolate	30	29°12'25"	95°10'25"	0.2 mile N of Grassy Point
	Chocolate	31	29°11'35"	95°11'00"	1.5 mile W of Horse Grove Point
Chocolate	Chocolate	32	29°11'15"	95°09'25"	0.5 mile S of Horse Grove Point
	Chocolate	33	29°10'30"	95°09'00"	Just S of Wharton Camp Bayou
	Chocolate	34	29°09'35"	95°09'10"	1.0 mile S of Wharton Camp Bayou
	West	35	29°09'15"	95°09'35"	2.1 mile N of Guyton Cut
Oyster Lake	West	36	29°06'30"	95°09'40"	0.5 mile N of Guyton Cut
	Oyster Lake	37	29°07'45"	95°10'20"	N shore of Oyster Lake
	Oyster Lake	38	29°07'05"	95°10'55"	SW shore of Oyster Lake
	Bastrop	39	29°06'35"	95°11'15"	0.1 mile W of mouth of Oyster Lake Bayou
Bastrop	Bastrop	40	29°06'20"	95°10'15"	0.7 mile NW of Guyton Cut
	Lost Lake	41	29°04'55"	95°12'40"	SW shore of Lost Lake
	Bastrop	42	29°05'50"	95°11'50"	0.5 mile NE of dredge cut between West Bastrop Bay and ICGW
Bastrop	Bastrop	43	29°05'00"	95°11'40"	1.3 mile W of Christmas Point
	Bastrop	44	29°04'45"	95°10'50"	0.3 mile W of Christmas Point
	Christmas	45	29°04'25"	95°11'05"	0.8 mile SW of Christmas Point
	Christmas	46	29°03'45"	95°12'10"	2.0 mile SW of Christmas Point
Christmas	Christmas	47	29°02'50"	95°13'15"	1.3 mile NW of Rattlesnake Point
	Christmas	48	29°01'55"	95°11'45"	0.1 mile NE of mouth of Cedar Cut
	Christmas	49	29°02'20"	95°10'55"	1.1 mile NE of mouth of Cedar Cut
	Christmas	50	29°03'15"	95°09'40"	0.2 mile S of mouth of Church-hill Bayou, SE Christmas Bay
West	West	51	29°09'40"	95°01'45"	E side Snake Island Cove
	West	52	29°10'20"	95°01'20"	0.4 mile E of Maggies Point
	West	53	29°11'00"	95°00'40"	SW shore Shell Island Point
	West	54	29°11'20"	94°59'45"	Jumbile Cove

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Galveston	West	55	29°12'30"	94°58'40"	Carancahua Cove	
	West	56	29°12'45"	94°57'20"	W of mouth of Oak Bayou	
	West	57	29°12'40"	94°57'50"	S shore of Dana Cove	
	West	58	29°13'40"	94°57'05"	N shore of Hoeckers Cove	
	West	59	29°14'05"	94°56'25"	SW shore of Starvation Cove	
	West	60	29°14'45"	94°55'50"	NW of Melager Cove	
	West	61	29°16'15"	94°53'20"	0.6 mile SW of Teichman Point	
	West	62	20°17'00"	94°55'40"	SE shore of North Deer Island	
	West	63	29°16'15"	94°54'55"	E shore of South Deer Island	
	West	64	29°17'25"	94°52'05"	0.1 mile E of SE end of Galveston Causeway	
	Galveston	Galveston	65	29°20'20"	94°49'20"	W shore of Pelican Island, 0.4 mile from ICWW
	Galveston	Galveston	66	28°21'05"	94°49'35"	NW Pelican Island, S shore of Cove formed by ICWW
	Galveston	Galveston	67	29°23'45"	94°45'45"	Baffle Point
	Galveston	Galveston	68	29°25'35"	94°43'25"	0.7 mile SW of Sievers Cove
Galveston	East	69	29°27'40"	94°41'35"	1.8 mile SW of house on Elm-grove Point	
Galveston	East	70	29°28'30"	94°40'30"	0.6 mile W of house on Elm-grove Point	
	East	71	29°28'35"	94°38'55"	0.5 mile NW of Bob's Cut	
	East	72	29°28'50"	94°37'15"	0.8 mile W of Stringree Cut	
	East	73	29°29'30"	94°35'55"	0.6 mile NE of Stringree Cut	
	East	74	29°30'20"	94°35'40"	Big Pasture Bayou, N shore	
	East	75	29°31'50"	94°33'50"	Marsh Point	
	East	76	29°31'15"	94°32'25"	1.4 mile SE of Marsh Point	
	East	77	29°33'20"	94°31'50"	1.0 mile N of Frozen Point	
	East	78	29°34'15"	94°34'20"	Robinson Bayou, 0.1 mile W of mouth	
	East	79	29°33'30"	94°36'25"	Second windmill W of Robinson Bayou (2.2 mile W of mouth)	
	East	80	29°32'15"	94°41'10"	Stephenson Point	
	Trinity	Trinity	81	29°33'30"	94°46'50"	Vingt-et-un Island, N shore
	Trinity	Trinity	82	29°36'45"	94°43'10"	0.1 mile S of cut in spoil bank opposite Lone Oak Bayou

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Galveston	Trinity	83	29°39'35"	94°42'00"	0.7 mile N of cut in spoil bank opposite Double Bayou
	Trinity	84	29°44'15"	94°41'55"	Bay side of spoil bank opposite Round Point
	Trinity	85	29°45'50"	94°47'45"	1.2 mile NE of Houston Lighting and Power Company's Cedar Bayou Generating Station's discharge canal
	Trinity	86	29°44'45"	94°49'30"	0.6 mile SW of Houston Lighting and Power Company's Cedar Bayou Generating Station's discharge canal
	Trinity	87	29°43'35"	94°50'45"	0.7 mile SW of Point Barrow
	Trinity	88	29°42'15"	94°51'30"	Midway between Point Barrow and Umbrella Point
	Trinity	89	29°40'20"	94°52'10"	Umbrella Point
	Galveston	90	29°39'35"	94°55'50"	Mesquite Knoll
	Galveston	91	29°41'50"	94°57'20"	0.5 mile W of Houston Lighting and Power Company's Cedar Bayou Generating Station's intake canal
	Trinity	92	29°37'15"	94°42'45"	0.4 mile N of cut in spoil bank opposite Lone Oak Bayou
	Galveston	93	29°35'20"	94°59'35"	0.8 mile SW of Red Bluff
	Galveston	94	29°34'55"	95°00'00"	1.5 mile SW of Red Bluff
	West	95	29°12'35"	95°02'35"	1.6 mile NE of Cow Bayou
	East	96	29°32'40"	94°30'00"	1.3 mile E of Frozen Point
	Galveston	97	29°33'20"	95°01'05"	NE shore of island adjacent to Clear Creek Channel
	West	98	29°06'30"	95°06'15"	1.5 mile NE of San Luis Pass
	West	99	29°41'50"	94°41'20"	Inside spoil bank 0.3 mile S of Ash Point
	Galveston	100	29°19'30"	94°49'25"	Middle of W side of Pelican Island

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
East Matagorda	East Matagorda	1	28°45'45"	95°39'35"	Caney Creek Cutoff
	East Matagorda	2	28°44'15"	95°40'55"	1.0 mile NE of Brown Cedar Cut
	East Matagorda	3	28°45'25"	95°40'28"	1.0 mile W of Caney Creek Cutoff
	East Matagorda	4	28°45'00"	95°41'25"	2.0 mile W of Caney Creek Cutoff
	East Matagorda	5	28°44'45"	95°46'10"	Mouth of Live Oak Bayou
	East Matagorda	6	28°44'10"	95°49'20"	Boggy Bayou
	East Matagorda	7	28°43'00"	95°52'40"	S of Micro Tower
	East Matagorda	8	28°42'40"	95°53'30"	W of Little Boggy Bayou Cut
	East Matagorda	9	28°43'10"	95°43'45"	2.0 mile W of Brown Cedar Cut
	East Matagorda	10	28°44'36"	95°42'37"	S of Mouth of Boggy Bayou
	East Matagorda	17	28°44'53"	95°47'13"	S of Pelton Lake
	East Matagorda	18	28°40'52"	95°49'36"	0.5 mile NE of Kain Cove
	East Matagorda	19	28°41'17"	95°48'36"	1.0 mile SW of Eidelbach Flat
	East Matagorda	20	28°42'39"	95°44'47"	Desert Catchall Basin
	East Matagorda	21	28°44'10"	95°43'40"	1.5 mile SW of mouth of Boggy Bayou
	East Matagorda	22	28°44'17"	95°44'35"	E end of Live Oak Bay
	Live Oak	23	28°44'50"	95°45'20"	N shore of Live Oak Bay
	East Matagorda	24	28°43'42"	95°50'45"	1.5 mile W of Boggy Bayou
	East Matagorda	25	28°43'20"	95°51'35"	1.0 mile E of Micro Tower
	East Matagorda	26	28°42'15"	95°54'43"	Mouth of Little Boggy Bayou
	East Matagorda	27	28°40'55"	95°56'38"	NE of Egret Island
	East Matagorda	28	28°40'20"	95°56'05"	St. Mary's Bayou #1
	East Matagorda	29	28°39'40"	95°56'33"	St. Mary's Bayou #2
	East Matagorda	30	28°38'31"	95°57'10"	Bayou El
	East Matagorda	31	28°37'50"	95°56'10"	Spring Bayou Cove
	East Matagorda	32	28°38'15"	95°55'12"	Burkhart Cove
	East Matagorda	33	28°38'35"	95°53'45"	Boiler Bayou
	East Matagorda	34	28°39'10"	95°52'35"	Hog Island
	East Matagorda	35	28°39'50"	95°51'07"	Cleveland Bayou
	East Matagorda	36	28°40'15"	95°50'20"	Kain Cove
	East Matagorda	37	28°41'15"	95°47'25"	Eidelbach Flat
	East Matagorda	38	28°41'53"	95°46'30"	Oyster Farm Drain

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Matagorda	Matagorda	1	28°38'40"	96°18'17"	Wells Point	
	Turtle	2	28°39'43"	96°18'16"	Silver Creek	
	Turtle	3	28°40'35"	96°17'52"	Shell Beach	
	Turtle	4	28°41'08"	96°17'00"	Buttermilk Slough	
	Turtle	5	28°41'40"	96°15'45"	Jensen Point	
	Turtle	6	28°41'20"	96°15'32"	Incinerator	
	Turtle	7	28°40'20"	96°16'55"	Turtle Point	
	Matagorda		8	28°41'35"	96°14'10"	Settergest Marsh
	Tres Palacios		9	28°44'47"	96°11'10"	Slaughter Flats
	Tres Palacios		10	28°45'15"	96°10'10"	Tres Palacios River, East
	Tres Palacios		11	28°44'10"	96°10'51"	Pepper Hill
	Tres Palacios		12	28°43'30"	96°11'20"	Collegeport Piling
	Tres Palacios		13	28°42'37"	96°10'54"	Pilkington Bayou
	Tres Palacios		14	28°41'40"	96°11'30"	Fence Post Reef
	Tres Palacios		15	28°41'30"	96°12'21"	Redfish Lake
	Tres Palacios		16	28°39'53"	96°12'56"	Coon Island Point
	Tres Palacios		17	28°39'35"	96°12'40"	Coon Island Bayou
	Coon Island		18	28°43'55"	96°12'00"	1 mile N of Grassy Pt.
	Tres Palacios		19	28°38'35"	96°14'00"	Oliver Point
	Coon Island		20	28°37'53"	96°13'22"	Pipeline Crossing
	Matagorda		21	28°37'00"	96°12'45"	Palacios Bayou Flats
	Matagorda		22	28°35'25"	96°13'50"	Boat Harbor
	Matagorda		23	28°36'14"	96°12'05"	Rattlesnake Island
	Oyster Lake		24	28°37'41"	96°10'40"	N Corner, Oyster Lake
	Oyster Lake		25	28°37'24"	96°10'47"	SE Shoreline, Oyster Lake
	Oyster Lake		26	28°35'44"	96°11'00"	ICWW, Southwest
	Matagorda		27	28°35'53"	96°10'16"	ICWW, Northeast
	Matagorda		28	28°37'20"	96°06'26"	Mad Island
	Matagorda		29	28°39'15"	96°01'45"	Shell Oil Cut
	Matagorda		30	28°39'15"	96°59'25"	Northeast Pocket
	Matagorda		31	28°35'22"	96°02'43"	Tide Gauge
	Matagorda		32	28°33'07"	96°07'15"	Watermelon Mott
	Matagorda		33	28°31'17"	96°11'25"	Oil Well Cut
	Matagorda		34	28°29'05"	96°15'00"	Poco Agua
	Matagorda		35	28°25'00"	96°21'35"	Decro Point
	Matagorda		36	28°27'10"	96°29'30"	La Salle Bayou

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Matagorda	Powderhorn Lake	37	28°30'00"	96°29'05"	Corner Powderhorn Lake
	Powderhorn Lake	38	28°29'00"	96°30'42"	Powderhorn Ranch Marsh
	Powderhorn Lake	39	28°28'37"	96°31'39"	Powderhorn, West
	Powderhorn Lake	40	28°30'10"	96°31'00"	Powderhorn, North Shore
	Lavaca	41	28°33'25"	96°31'30"	Indian Point
	Chocolate Bay	42	28°34'55"	96°35'36"	Cedar Point
	Chocolate Bay	43	28°34'16"	96°38'08"	Tanner Launch
	Lavaca	44	28°40'19"	96°38'10"	Maxwell Ditch
	Lavaca	45	28°41'46"	96°39'45"	Six Mile Creek
	Lavaca	46	28°42'38"	96°38'31"	Garcitas Cove
	Lavaca	47	28°43'05"	96°37'11"	Venado West
	Venado Lake	48	28°44'35"	96°36'45"	Venado Lake #2
	Lavaca	49	28°43'10"	96°35'00"	Venado East
	Redfish Lake	50	28°47'41"	96°34'27"	Redfish Lake, Northwest
	Redfish Lake	51	28°46'41"	96°33'43"	Redfish Lake, Southeast
	Lavaca	52	28°38'07"	96°36'50"	Noble Point
	Swan Lake	53	28°45'00"	96°34'09"	Swan Lake, North
	Swan Lake	54	28°43'55"	96°33'41"	Swan Lake, East
	Lavaca	55	28°41'47"	96°33'47"	Catfish Cove
	Lavaca	56	28°39'24"	96°34'25"	Alcoa
	Lavaca	57	28°36'52"	96°30'00"	Rhodes Point
	Cox	58	28°38'24"	96°31'05"	Cox Point
Cox	59	28°39'03"	96°31'05"	Cox Creek, West	
Cox	60	28°38'34"	96°30'35"	Huisache Cove	
Cox	61	28°38'07"	96°30'00"	Cox Cove, North	
Cox	62	28°37'24"	96°30'00"	Cox Cove, Southeast	
Keller	63	28°36'33"	96°28'55"	Mud Point	
Keller	64	28°37'49"	96°28'00"	Olivia	
Keller	65	28°37'39"	96°27'02"	Smith Ranch House	
Keller	66	28°35'35"	96°26'20"	Smith's Slough	
Keller	67	28°39'05"	96°27'55"	Keller Creek	
Keller	68	28°35'48"	96°28'30"	Smith's Point	
Lavaca	69	28°35'00"	96°29'00"	Humble Oil Dock	
Lavaca	70	28°34'15"	96°29'18"	Sand Point Lavaca	
Matagorda	71	28°35'25"	96°26'20"	Smith's Cedars	
Redfish Lake	72	28°37'43"	96°23'07"	Redfish Lake, N Pocket	

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Matagorda	Redfish Lake	73	28°37'15"	96°22'55"	Redfish Lake, E Shore	
	Redfish Lake	74	28°37'15"	96°23'55"	Redfish Lake, SW Shore	
	Salt Lake	75	28°37'50"	96°23'53"	Salt Lake, Pocket	
	Salt Lake	76	28°37'55"	96°25'00"	Salt Lake, W Pocket	
	Carancahua	77	28°38'26"	96°25'00"	Port Alto, South	
	Carancahua	78	28°41'33"	96°24'42"	Port Alto, North	
	Carancahua	79	28°42'31"	96°25'55"	Wolf Point Flats	
	Carancahua	80	28°44'19"	96°26'18"	Carancahua Bay, North	
	Carancahua	81	28°44'32"	96°25'51"	Carancahua Bay, East	
	Carancahua	82	28°43'03"	96°25'48"	Cape Carancahua	
	Carancahua	83	28°44'05"	96°25'20"	Crescent V, West	
	Carancahua	84	28°40'50"	96°23'40"	Sun Oil Pipe line	
	Carancahua	85	28°42'29"	96°23'15"	Five Mile Draw	
	Carancahua	86	28°39'43"	96°22'16"	Houston Point	
	Carancahua	87	28°37'57"	96°21'34"	Schicke Point, Inside	
	Carancahua	88	28°37'30"	96°21'34"	Schicke Point, Outside	
	Matagorda	Matagorda	89	28°38'20"	96°20'00"	Piper Lake
	Matagorda	Matagorda	90	28°38'30"	96°19'11"	Marine Fisheries Research Station
	Matagorda	Matagorda	91	28°36'28"	95°59'05"	SE Pocket
	Matagorda	Matagorda	92	28°32'10"	96°09'54"	Trout Bayou
Matagorda	Matagorda	93	28°30'30"	96°12'35"	Cotton Bayou	
Matagorda	Matagorda	94	28°27'25"	96°18'15"	Tom Cherry	
Matagorda	Matagorda	95	28°28'24"	96°25'24"	Broad Bayou	
Matagorda	Matagorda	96	28°30'32"	96°28'47"	Powderhorn Bayou	
Lavaca	Lavaca	97	28°35'00"	96°35'00"	Alamo Beach	
Matagorda	Matagorda	98	28°34'12"	96°28'49"	Sand Point, South	
Matagorda	Matagorda	99	28°37'00"	96°22'55"	Carancahua Pass, West	
Lavaca	Lavaca	100	28°33'50"	96°32'50"	1 mile NW of Magnolia Beach boat launch	

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
San Antonio	San Antonio	1	28°23'22"	96°42'35"	Swan Point
	San Antonio	2	28°22'45"	96°41'50"	Mosquito Cove, 1 mile S of Swan Point
	San Antonio	3	28°21'55"	96°42'00"	Mosquito Cove, 1.25 miles N of Mosquito Point
	San Antonio	4	28°19'00"	96°39'15"	W point of Grass Island
	San Antonio	5	28°19'05"	96°37'55"	E point of Grass Island
	Shoalwater	6	28°19'25"	96°38'00"	N point of Grass Island
	San Antonio	7	28°18'15"	96°37'35"	Small island just W of Steamboat Island
	Espiritu Santo	8	28°18'36"	96°37'05"	Middle of E side of Steamboat Island
	Shoalwater	9	28°19'30"	96°36'55"	1 mile from W point of Long Island in Shoalwater Bay
	Espiritu Santo	10	28°19'25"	96°37'35"	1.25 mile from W point of Long Island in Espiritu Santo Bay
	Espiritu Santo	11	28°20'20"	96°35'47"	2.5 miles from W point of Long Island in Espiritu Santo Bay
	Espiritu Santo	12	28°21'10"	96°34'52"	Long Island 0.5 mile W of Lane
	Espiritu Santo	13	28°21'45"	96°33'52"	Long Island 0.5 mile E of Lane
	Espiritu Santo	14	28°22'10"	96°32'55"	Long Island 1.5 miles E of Lane
	Espiritu Santo	15	28°22'47"	96°31'07"	0.5 mile from W point of Dewberry Island
	Espiritu Santo	16	28°23'15"	96°30'10"	1.5 miles from W point of Dewberry Island
	Espiritu Santo	17	28°23'50"	96°29'12"	Dewberry Island 0.5 mile W of Army channel
	Espiritu Santo	18	28°24'13"	96°28'18"	Blackberry Island 0.75 mile E of Army channel
	Espiritu Santo	19	28°24'48"	96°27'12"	Blackberry Island 1.75 miles E of Army channel
	Espiritu Santo	20	28°25'18"	96°26'06"	Blackberry Island at mouth of Barroom Bay
	Espiritu Santo	21	28°23'49"	96°26'12"	1.25 miles E of Bayoucou Point
	Espiritu Santo	22	28°23'00"	96°27'09"	Bayoucou Point
	Espiritu Santo	23	28°22'40"	96°27'20"	N side of Grass Island 0.5 mile from E point

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
San Antonio	Espiritu Santo	24	28°22'15"	96°28'10"	N side of Grass Island 0.5 mile from W point
	Espiritu Santo	25	28°21'35"	96°27'25"	W point of Farwell Island
	Espiritu Santo	26	28°21'50"	96°26'53"	E point of Farwell Island
	Espiritu Santo	27	28°21'15"	96°26'25"	0.5 mile S of second oil well off Saluria Bayou
	Espiritu Santo	28	28°21'00"	96°26'22"	Big Pocket
	Espiritu Santo	29	28°20'33"	96°26'33"	Lighthouse Cove W of derelict boat on shore
	Espiritu Santo	30	28°19'51"	96°28'48"	0.25 mile W of Army hole on Vanderveer Island
	Pringle Lake	31	28°18'51"	96°30'22"	S shore Pringle Lake 2 miles E of Rahal Bayou
	Pringle Lake	32	28°18'22"	96°31'25"	S shore Pringle Lake 1 mile E of Rahal Bayou
	Espiritu Santo	33	28°19'25"	96°31'21"	Pringle Cut in center of Vanderveer Island
	Espiritu Santo	34	28°18'07"	96°33'10"	Rahal Bayou
	Espiritu Santo	35	28°18'05"	96°34'30"	South Pass Lake, E cut
	San Antonio	36	28°17'10"	96°35'53"	South Pass Lake, W cut
	San Antonio	37	28°16'50"	96°36'45"	Long Lake mouth on N shore
	San Antonio	38	28°16'35"	96°37'06"	Island N of Corey Cove
	San Antonio	39	28°16'05"	96°37'50"	Corey Cove Point
	San Antonio	40	28°15'35"	96°37'50"	Pat's Bay mouth on S shore
	San Antonio	41	28°15'12"	96°39'06"	1 mile S Pat's Bay between two guts
	San Antonio	42	28°14'25"	96°39'15"	Mouth of Twin Lakes
	San Antonio	43	28°13'54"	96°39'54"	Cedar Point
	San Antonio	44	28°13'35"	96°40'00"	Mouth of Cedar Lake on S shore
	San Antonio	45	28°13'15"	96°41'00"	1 mile S of Cedar Lake
	San Antonio	46	28°12'30"	96°42'06"	0.5 mile S of Panther Point
	San Antonio	47	28°12'05"	96°41'55"	Panther Point Lake, just inside mouth on S shore
	San Antonio	48	28°11'45"	96°42'55"	1 mile S of Panther Point Lake mouth
	San Antonio	49	28°11'20"	96°45'05"	Mouth of Cottonwood Bayou

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
San Antonio	San Antonio	50	28°11'21"	96°47'24"	Ayres Point
	Ayres	51	28°10'30"	96°48'55"	Point S of Ayres Point
	Ayres	52	28°10'05"	96°49'10"	Ayres Dugout
	Ayres	53	28°11'20"	96°50'00"	Rattlesnake Island
	Mustang Lake	54	28°13'50"	96°47'30"	Mouth of Mustang Lake E shore
	San Antonio	55	28°14'43"	96°46'35"	Point of land N of Marker 35
	San Antonio	56	28°15'20"	96°47'15"	Live Oak Point
	San Antonio	57	28°16'27"	96°47'47"	Dagger Point
	San Antonio	58	28°19'17"	96°47'45"	Webb Point
	San Antonio	59	28°20'21"	96°47'33"	0.5 mile S of Hopper Landing
	San Antonio	60	28°21'48"	96°47'51"	McDowell Point
	Hynes	61	28°22'22"	96°49'00"	1 mile N of McDowell Point
	Hynes	62	28°25'20"	96°50'51"	Point of land in center head of Hynes Bay
	Hynes	63	28°25'40"	96°49'40"	1 mile S of Townsend Bayou
	Hynes	64	28°25'10"	96°48'45"	Opposite steel gate in marsh
	Hynes	65	28°24'33"	96°47'50"	Swan Lake Bayou N of mouth
	Hynes	66	28°23'54"	96°46'37"	Grassey Point
	San Antonio	67	28°24'25"	96°47'20"	Midway between Grassey Pint and Marsh Point
	Guadalupe	68	28°25'25"	96°45'50"	Foster Point
	Hynes	69	28°24'15"	96°51'00"	Opposite tall cylindrical tower
	San Antonio	70	28°14'00"	96°47'50"	Mouth of Mustang Lake W shore
	San Antonio	72	28°20'18"	96°42'01"	Opposite Channel Marker 13
	San Antonio	73	28°19'30"	96°41'30"	Opposite Channel Marker 11
	Long Lake	78	27°17'00"	96°35'50"	N shore of Long Lake
	Long Lake	79	28°16'35"	96°35'45"	S shore of Long Lake
	Pats	80	28°15'55"	96°37'05"	N shore of Pats Bay
	San Antonio	81	28°13'40"	96°47'05"	1 mile S of False Live Oak Pt.
	San Antonio	82	28°11'25"	96°46'45"	1 mile E of Ayres Point
	San Antonio	83	28°11'25"	96°44'00"	2 mile S of Panther Point Lake mouth

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Aransas	Aransas	1	28°01'50"	97°02'00"	Off of bulkhead at NE end of Rockport Beach
	Aransas	2	28°07'28"	96°59'00"	Off S side of Goose Island near restrooms
	Aransas	3	27°59'05"	97°04'00"	Halfway between Turtle Bayou and ICW Marker 7
	Aransas	4	27°57'15"	97°04'15"	Just N of oil channel halfway between Big Bayou and Trout Bayou
	Redfish	5	27°56'00"	97°05'15"	Off second island NW of Big Bayou in Redfish Bay
	Copano	6	28°03'22"	97°08'10"	Off SW tip of Rattlesnake Point
	Aransas	7	27°55'13"	97°04'22"	Just N of mouth of Corpus Christi Bayou
	Aransas	8	27°53'40"	97°02'42"	Off NE tip of Lydia Ann Island
	Aransas	9	27°55'17"	97°01'03"	1.0 mile SW of tanks on San Jose Island behind Mud Island
	Aransas	10	27°55'43"	97°02'38"	On SW tip of Mud Island
	Aransas	11	27°56'42"	97°01'28"	Middle of Mud Island N side
	Aransas	12	27°56'18"	97°01'22"	Middle of Mud Island S side
	Aransas	13	27°57'05"	96°59'35"	On NE tip of Mud Island
	Aransas	14	27°58'06"	96°58'27"	1.0 mile N of San Jose Ranch house
	Aransas	15	27°59'00"	96°58'07"	2.0 miles N of San Jose Ranch house within Allyn's Right
	Aransas	16	28°07'37"	96°55'42"	On Blackjack Peninsula at Dunham Point
	Aransas	17	28°01'14"	96°58'00"	On San Jose Island, 1.5 miles NE of Allyn's Lake
	Aransas	18	28°01'55"	97°01'29"	Off SE tip of Key Allegro Isle
	Aransas	19	28°04'00"	96°57'40"	Off Deadman Island NW of Long Reef
	Aransas	20	28°03'12"	96°56'44"	On Big Island at SE end of Long Reef

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Aransas	Aransas	21	28°04'18"	96°55'55"	Midway between Long Reef and Jay Bird Reef
	Aransas	22	28°05'10"	96°55'33"	On San Jose Island near Jay Bird Reef marker
	Aransas	23	28°06'03"	96°54'22"	S of Spalding Reef near TPWD post marker
	Aransas	24	28°06'40"	96°53'25"	SE end of Shell Reef as mouth of Spalding Bight
	Aransas	25	28°06'48"	96°55'26"	On SE side of SW tip of Dunham Island
	Dunham	26	28°07'57"	96°55'05"	On Grass Island at mouth of Dunham Bay
	Dunham	27	28°08'53"	96°54'22"	In NE most end of Dunham Bay
	Aransas	28	28°59'52"	96°58'47"	At the break between Allyn's Lake and the bay 200 yds N of duck blind
	Aransas	29	28°07'20"	96°56'45"	Midway between Dunham and Blackjack Points
	Aransas	30	28°00'00"	97°03'31"	Just S of Perry Bass docking facilities
	Aransas	31	28°06'15"	97°01'07"	On NE tip of Live Oak Point near reef marker
	Aransas	32	28°05'21"	97°02'00"	Off Fulton beach about 1.0 mile S of Racquet Club in front of Dr. Foster's residence
	Aransas	33	28°04'16"	97°02'07"	Along bulkhead shoreline just S of Sandollar Motel
	Aransas	34	28°04'38"	96°57'53"	On island at end of Halfmoon Reef near ICMW Marker 22
	Carlos Copano	35	28°07'05"	96°53'07"	In SE corner of Carlos Bay
		36	28°05'05"	97°04'34"	Approximately 1.0 mile SW of airport
	Mesquite	37	28°07'09"	96°51'08"	1.5 miles W of mouth of Cedar Bayou
	Mesquite	38	28°06'58"	96°49'55"	At mouth of Cedar Bayou, W side

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Aransas	Mesquite	39	28°07'18"	96°48'50"	In SE Mesquite Bay about 1.0 mile NE of mouth of Cedar bayou
	Mesquite	40	28°08'21"	96°48'07"	At end of Bray Cove
	Mesquite	41	28°08'55"	96°49'04"	Matagorda Island, 1.5 miles S of Ayres Dugout
	Mesquite	42	28°10'01"	96°49'55"	At Ayres Dugout on the Mesquite Bay side
	Mesquite	43	28°10'23"	96°51'07"	Off Roddy Island in N part of Mesquite Bay
	Mesquite	44	28°09'55"	96°52'32"	1.0 mile SW of Sundown-Mesquite Bay Pass
	Carlos	45	28°08'52"	96°53'08"	S side of Cedar Point
	Carlos	46	28°07'50"	96°54'15"	On NE side of Cape Carlos by first refuge marker
	St. Charles	47	28°08'03"	96°57'38"	Off Bird Point inside St. Charles Bay
	St. Charles	48	28°09'57"	96°56'53"	Just S of Egg Point near clump of trees and refuge marker
	St. Charles	49	28°10'35"	96°56'18"	Point of land just N of Bill Mott Bayou
	St. Charles	50	28°12'05"	96°55'43"	Between Little Devil Bayou and Big Devil Bayou
	St. Charles	51	28°13'00"	96°56'33"	At Meile Dietrich Point
	St. Charles	52	28°14'32"	96°55'34"	Just N of McHugh Bayou
	St. Charles	53	28°16'10"	96°54'55"	At mouth of Twin Creek
	St. Charles	54	28°15'00"	96°56'30"	At mouth of Salt Creek outside cove
	St. Charles	55	28°13'41"	96°57'26"	1.5 miles SW of mouth of Salt Creek
	St. Charles	56	28°13'04"	96°58'47"	Inside Cavasso Creek close to Highway 35
	St. Charles	57	28°11'55"	96°56'50"	0.5 mile NW of Big Sharps Point
	St. Charles	58	28°10'53"	96°57'16"	0.5 mile SW of Little Sharps Point
	St. Charles	59	28°10'00"	96°58'00"	On S side of Cow Chip Slough
	St. Charles	60	28°08'53"	96°58'20"	Just N of the Big Tree

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Aransas	St. Charles Copano	61	28°07'57"	96°58'28"	On SE tip of Hail Point
		62	28°08'10"	97°00'37"	On Lamar Peninsula on W side at N end of Copano Causeway
Copano	Copano	63	28°09'01"	97°01'42"	On W tip of Newcomb Point
		64	28°09'43"	97°01'08"	Just S of Holiday Beach channel; Palmetto Point
Copano	Copano	65	28°11'00"	97°01'05"	At W end of Shell Point near duck blind
Copano	Copano	66	28°11'52"	97°00'42"	On a point of land 1.0 mile E of Turtle Pen Point
Copano	Copano	67	28°12'07"	97°02'07"	On N side of the mouth of Copano Creek
Copano	Copano	68	28°11'54"	97°01'14"	On S side of Turtle Pen Point
		69	28°11'18"	97°02'21"	1.5 miles SW of Turtle Pen Point
Copano	Copano	70	28°10'41"	97°04'00"	About 3.0 miles SW of Turtle Pen Point
Copano	Copano	71	28°10'00"	97°05'27"	About 4.5 miles SW of Turtle Pen Point
Copano Mission	Copano Mission	72	28°08'57"	97°07'22"	Just at the NW of Copano Reef
		73	28°10'00"	97°08'27"	About 1.5 mile N of mouth of Mission Bay
Copano	Copano	74	28°07'57"	97°09'27"	Between the mouth of Mission Bay and Shellbank Reef
Copano	Copano	75	28°06'41"	97°11'15"	Approximately 1.5 miles NE of Bayside
Copano	Copano	76	28°05'32"	97°13'28"	0.2 mile W of bridge at Black Point
Copano	Copano	77	28°03'45"	97°13'22"	On S side of the mouth of the Aransas River
Copano	Copano	78	28°04'18"	97°12'39"	0.5 mile E of the S end of Bay-side bridge on Egery Island
Copano	Copano	79	28°03'39"	97°11'05"	2.0 miles SE of the S end of Bayside Bridge; Rincon de la Cera

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Aransas	Copano	80	28°03'09"	97°09'07"	On N side at the E most island forming Swan Lake
	Port	81	28°01'57"	97°08'53"	On NW end of the old bridge ruins across Port Bay
	Port	82	28°01'15"	97°09'14"	1.0 mile SW of Port Bay Bait Stand, on E tip of land forming horseshoe
	Port	83	28°00'17"	97°09'23"	On point of land 0.8 mile NE of Highway 881 bridge on W side of bay
	Port	84	27°59'29"	97°10'15"	On E shore just S of Highway 881 bridge
	Port	85	27°58'53"	97°10'40"	On W shore 1.0 mile SW of Highway 881 bridge
	Port	86	27°59'54"	97°08'56"	0.8 mile due S of Port Bay ranch house near slough
	Port	87	28°01'05"	97°08'31"	0.5 mile S of E side of old bridge ruins
	Port	88	28°01'45"	97°07'47"	0.5 mile E of Port Bay Bait Stand
	Port	89	28°02'19"	97°07'48"	At point of land forming NW boundary of Italian Bend
	Copano	90	28°04'38"	97°06'03"	Hannibal Point
	Copano	91	28°05'50"	97°03'04"	The third T-head NE of Copano Village; close to airport
	Copano	92	28°07'03"	97°03'12"	On W tip of Redfish Point near old barge
	Mesquite	93	28°08'13"	96°53'21"	In Mesquite Bay 2.5 miles NW from mouth of Cedar Bayou
	Redfish	94	27°54'10"	97°05'47"	On S side of NE tip of Hog Island
	Aransas	95	28°02'27"	96°57'02"	0.5 mile SW of Pauls Mott reef marker
	Redfish	96	27°58'22"	97°04'50"	Off ICWW spoil near oil well inside Estes Cove

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Aransas	Mission	97	28°08'37"	97°08'20"	Just inside Mission Bay mouth on E side	
	Mission	98	28°08'05"	97°10'10"	In Mission Bay on W shore due S of river entrance	
	Copano	99	28°04'07"	97°05'45"	Inside Salt Lake off well pads	
	Redfish	100	27°54'47"	97°07'42"	1.0 mile N of Aransas Pass Harbor, W of ICW Marker 35	
Corpus Christi	Nueces	1	27°49'12"	97°27'45"	2 miles W of westerly powerlines on S shore	
	Nueces	2	27°52'52"	97°20'11"	2 miles NE of clay pits	
	Nueces	3	27°52'09"	97°20'30"	0.2 mile NW of old Ramada Inn	
	Nueces	4	27°52'50"	97°21'28"	1 mile E of clay pits	
	Nueces	5	27°52'15"	97°26'27"	1 mile W of westerly powerlines on N shore	
	Nueces	6	27°52'12"	97°25'05"	0.5 mile E of westerly powerlines on N shore	
	Corpus Christi	Nueces	7	27°51'24"	97°20'42"	0.8 mile N of Indian Point pier
		Nueces	8	27°53'00"	97°29'39"	0.5 mile NW of shallow cove on N shore
	Nueces	9	27°51'47"	97°27'52"	On E shore of first cove to the E of White Point	
	Nueces	Nueces	10	27°52'30"	97°30'40"	3 miles W and N of river cut
		Nueces	11	27°51'10"	97°30'00"	0.5 mile W of river cut on S shore
	Nueces	Nueces	12	27°52'00"	97°29'00"	On W shore of White Point
		Nueces	13	27°52'28"	97°22'38"	Just W of clay pits
		Nueces	14	27°52'29"	97°23'38"	0.2 mile W of easterly powerlines on N shore
	Nueces	Nueces	15	27°50'14"	97°23'15"	Just SW of the W.R.I.P. canal
		Nueces	16	27°50'15"	97°29'23"	Due S of island at Nueces River mouth
	Nueces	Nueces	17	27°49'36"	97°25'38"	0.5 mile W of westerly powerlines on S shore
Corpus Christi	Corpus Christi	18	27°41'34"	97°11'26"	0.2 mile S of water exchange pass (W.E.P.)	
Corpus Christi	Corpus Christi	19	27°46'00"	97°09'53"	Just S of tanks on NE end at Shamrock Island	

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Corpus Christi	Corpus Christi	20	27°45'05"	97°08'49"	0.2 mile S of sportsmen club cabin
	Corpus Christi	21	27°46'35"	97°07'54"	0.2 mile NE of Sinclair Cut
	Corpus Christi	22	27°45'11"	97°10'20"	Extreme southern tip of Shamrock Island
	Corpus Christi	23	27°50'28"	97°09'41"	0.2 mile S of Dagger Point on S shore
	Corpus Christi	24	27°43'27"	97°10'05"	0.5 mile S of boat cove by Tenneco pumping station
	Corpus Christi	25	27°49'53"	97°10'26"	0.2 mile N of southern tip of Dagger Island on S shore
	Nueces	26	27°51'15"	97°29'05"	Off N side of spoil island, 0.5 mile N of river cut
	Corpus Christi	27	27°42'40"	97°10'32"	1 mile N of W.E.P.
	Corpus Christi	28	27°50'51"	97°14'09"	Welder Point, just NW of house on bluff
	Corpus Christi	29	27°42'22"	97°17'26"	0.5 mile NW of N.A.S. bulkheads
	Corpus Christi	30	27°52'29"	97°18'14"	2 miles W of jetties on La Quinta shore
	Corpus Christi	31	27°51'58"	97°19'37"	2 miles NE of Indian Point Pier
	Nueces	32	27°51'30"	97°21'45"	On spoil area, 0.5 mile NE of Nueces Bay causeway.
	Corpus Christi	33	27°49'50"	97°22'48"	On the beach just SW of Rincon Point
	Corpus Christi	34	27°45'54"	97°22'56"	1 mile SE of Holiday Inn on Ocean Drive
	Corpus Christi	35	27°43'28"	97°20'40"	0.8 mile NW of Oso Fishing Pier
	Corpus Christi	36	27°52'48"	97°16'45"	0.8 mile W of jetties on La Quinta shore
	Corpus Christi	37	27°41'42"	97°14'51"	On N shore of Demit Island
	Corpus Christi	38	27°42'51"	97°19'09"	0.8 mile SE of Oso Fishing Pier
	Corpus Christi	39	27°41'18"	97°13'17"	N shore of spoil area near ICWW Marker 3
	Corpus Christi	40	27°45'14"	97°09'29"	0.2 mile N of Glenn Cove
	Corpus Christi	41	27°46'22"	97°08'49"	0.5 mile SW at Sinclair Cut, N of tanks
	Redfish	42	27°50'12"	97°10'11"	Middle of N shore at Dagger Point

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Corpus Christi	Corpus Christi	43	27°49'40"	97°10'46"	On S shore of spoil area just SW of Dagger Island
	Corpus Christi	44	27°50'46"	97°09'22"	On S shore of spoil area, 0.2 mile NE of Dagger Island
	Redfish	45	27°51'03"	97°08'08"	On SE shore of S. Ransom Island
	Corpus Christi	47	27°44'28"	97°22'06"	2.25 miles NW of Oso Fishing Pier
	Redfish	48	27°52'15"	97°08'04"	In the middle of E shore of N Ransom Island
	Redfish	49	27°52'11"	97°08'07"	In the middle of W shore of N Ransom Island
	Redfish	50	27°53'15"	97°07'01"	On W shore of Stedman Island
	Redfish	51	27°51'25"	97°09'46"	0.25 mile E of ICW Marker 52 on NE side of spoil
	Corpus Christi	52	27°49'26"	97°07'55"	On SW shore of Point of Mustang
	Redfish	53	27°52'41"	97°08'20"	On SW shore of long spoil area just N of N Ransom Island
	Corpus Christi	54	27°51'01"	97°21'34"	0.25 mile SW of Indian Point Pier
	Corpus Christi	55	27°50'08"	97°07'14"	0.3 mile NE of CCSC Marker 14
	Redfish	56	27°50'51"	97°07'21"	0.8 mile E of S Ransom Island on spoil area
	Corpus Christi	57	27°49'30"	97°07'10"	1 mile E of Pt. of Mustang on S shore
	Corpus Christi	58	27°45'21"	97°08'21"	0.5 mile SE of green cabin in Shamrock Cove
	Corpus Christi	59	27°49'20"	97°08'56"	0.2 mile SSW of CCSC Marker 19 on N side of spoil area
	Corpus Christi	60	27°49'18"	97°09'43"	0.3 mile E of CCSC Marker 25 on N side of spoil area just W of tanks
	Corpus Christi	61	27°48'56"	97°11'15"	On N side of spoil area just S of CCSC Marker 31
	Corpus Christi	62	27°48'45"	97°11'41"	On S shore, 1.5 miles NE of W tip of chain of CCSC spoil areas
	Corpus Christi	63	27°48'26"	97°13'05"	0.2 mile SE of W tip of chain of CCSC spoil area

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Corpus Christi	Corpus Christi	64	27°48'47"	97°12'29"	0.2 mile SE of CCSC Marker 36
	Corpus Christi	65	27°49'28"	97°13'10"	Just N of La Quinta Channel Marker 6 in front of houses
	Corpus Christi	66	27°50'05"	97°13'21"	Just SW of Ingleside Cove public ramp
	Corpus Christi	67	27°49'59"	97°13'38"	On N side of island just S of La Quinta Channel Marker 8
	Corpus Christi	68	27°48'38"	97°14'07"	0.8 mile SE of Ingleside Point
	Redfish	70	27°51'22"	97°08'48"	Off SW tip of island that is 0.5 mile SW of N Ransom Island
	Corpus Christi	71	27°52'22"	97°15'42"	Just SW of La Quinta Channel Marker 19
	Corpus Christi	72	27°44'36"	97°09'38"	Just SW of Arco plant at bay end of Wilson's Cut
	Redfish	73	27°53'33"	97°07'32"	0.5 mile SE of Conn Brown Harbor Bridge on S shore of spoil area
	Oso	74	27°42'25"	97°18'30"	On spoil just S of Oso Bridge
	Redfish	75	27°52'14"	97°05'59"	At S end of oil well cut, 1.25 miles SE of Fin and Feather Marina
	Corpus Christi	76	27°50'24"	97°06'06"	On N side of spoil area, 0.2 mile N of CCSC Marker 8
	Corpus Christi	77	27°45'34"	97°08'57"	Pink Shack Cove
	Corpus Christi	78	27°49'00"	97°07'30"	East Flats
	Redfish	79	27°52'31"	97°08'48"	0.2 mile SE of ICWW Marker 44 on S shore of spoil area
	Corpus Christi	80	27°44'04"	97°09'39"	Boat cove

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Upper Laguna Madre	1	27°40'40"	97°15'03"	1.0 miles SSW of E tip of Demit Island
	Upper Laguna Madre	2	27°19'40"	97°24'24"	1.2 miles NNW of ICWM Flasher 207
	Upper Laguna Madre	3	27°14'58"	97°25'32"	0.4 mile ESE of ICWM Marker 13a
	Baffin	4	27°17'02"	97°36'45"	3.2 miles E of Riviera Beach
	Baffin	5	27°18'11"	97°39'15"	1.3 miles NNE of Riviera Beach
	Laguna Salada	6	27°16'33"	97°38'57"	1.2 miles SE of Riviera Beach
	Upper Laguna Madre	7	27°41'30"	97°15'01"	0.5 mile ENE of Naval Air Station Corpus Christi Marina
	Laguna Salada	8	27°17'00"	97°40'18"	0.7 mile WSW of Riviera Beach
	Upper Laguna Madre	9	27°40'50"	97°14'06"	0.8 mile ESE of Demit Island
	Upper Laguna Madre	10	27°40'25"	97°15'20"	1.3 miles SW of Demit Island
	Upper Laguna Madre	11	27°40'20"	97°15'57"	1.7 miles SW of Demit Island
	Upper Laguna Madre	12	27°39'20"	97°13'40"	2.0 miles WNW of Corpus Christi Pass
Upper Laguna Madre	14	27°38'28"	97°13'45"	2.0 miles WSW of Corpus Christi Pass	
Upper Laguna Madre	15	27°39'30"	97°16'25"	2.8 miles SW of Demit Island	
Upper Laguna Madre	16	27°38'25"	97°15'25"	3.0 miles NE of Pita Island	
Upper Laguna Madre	17	27°37'47"	97°15'45"	2.3 miles NE of Pita Island	
Upper Laguna Madre	18	27°37'20"	97°16'20"	1.4 miles NE of Pita Island	
Upper Laguna Madre	19	27°36'00"	97°16'00"	0.3 miles ESE of Pita Island	
Upper Laguna Madre	20	27°36'30"	97°17'55"	0.6 mile NW of Pita Island	
Upper Laguna Madre	21	27°35'40"	97°17'40"	0.6 mile SW of Pita Island	
Upper Laguna Madre	22	27°32'08"	97°17'10"	0.9 mile NNE of North Bird Island	
Upper Laguna Madre	23	27°33'10"	97°19'35"	3.0 miles NW of North Bird Island	
Upper Laguna Madre	24	27°27'10"	97°19'55"	2.5 miles SSE of South Bird Island	
Upper Laguna Madre	25	27°22'08"	97°21'30"	8.6 miles SSW of South Bird Island	
Alazan		26	27°20'25"	3.5 miles NNE of Starvation Point	

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Cayo del Grullo Laguna Salada	27	27°19'32"	97°41'00"	0.7 mile SE of Loyola Beach
		28	27°16'10"	97°41'20"	1.4 miles ESE of Williamson's Boat Dock
	Laguna Salada	29	27°16'31"	97°17'35"	0.2 mile ESE of Williamson's Boat Dock
	Upper Laguna Madre	30	27°36'08"	97°17'35"	SW shore of Pita Island
	Upper Laguna Madre	31	27°34'20"	97°15'36"	2.4 miles W of Bob Hall Pier on Padre Island
	Upper Laguna Madre	32	27°34'33"	97°15'55"	2.2 miles SE of Pita Island
	Upper Laguna Madre	33	27°35'03"	97°18'15"	1.5 miles SW of Pita Island
	Upper Laguna Madre	34	27°34'02"	97°16'40"	2.3 miles SSE of Pita Island
	Upper Laguna Madre	35	27°35'58"	97°16'15"	3.1 miles NNE of North Bird Island
	Upper Laguna Madre	36	27°34'24"	97°19'10"	2.5 miles SW of Pita Island
	Upper Laguna Madre	37	27°33'25"	97°16'38"	2.3 miles NNE of North Bird Island
	Upper Laguna Madre	38	27°31'55"	97°20'10"	2.8 miles WNW of North Bird Island
	Upper Laguna Madre	39	27°30'30"	97°18'00"	0.8 mile SW of North Bird Island
	Upper Laguna Madre	40	27°31'00"	97°20'35"	3.2 miles W of North Bird Island
	Upper Laguna Madre	41	27°29'50"	97°20'48"	2.5 miles W of South Bird Island
	Upper Laguna Madre	42	27°29'00"	97°18'25"	0.7 mile S of South Bird Island
	Upper Laguna Madre	43	27°28'10"	97°21'28"	3.3 miles WSW of South Bird Island
	Upper Laguna Madre	44	27°26'42"	97°20'40"	3.7 miles SW of South Bird Island
	Upper Laguna Madre	45	27°27'57"	97°21'48"	1.6 miles WNW of ICWM Marker 139
	Upper Laguna Madre	46	27°26'00"	97°19'50"	1.9 miles S of ICWM Marker 127
	Upper Laguna Madre	47	27°25'35"	97°20'41"	0.9 mile SSW of ICWM Marker 139
	Upper Laguna Madre	48	27°25'10"	97°19'49"	3.0 miles S of ICWM Marker 127
	Upper Laguna Madre	49	27°25'50"	97°22'06"	1.8 miles WSW of ICWM Marker 139

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Upper Laguna Madre	50	27°23'48"	97°20'27"	1.5 miles SE of ICWW Marker 151
	Upper Laguna Madre	51	27°23'32"	97°21'45"	0.8 mile NE of ICWW Flasher 169
	Upper Laguna Madre	52	27°22'56"	97°21'04"	1.3 miles E of ICWW Flasher 169
	Upper Laguna Madre	53	27°21'19"	97°21'45"	1.2 miles ESE of ICWW Marker 181
	Upper Laguna Madre	54	27°20'31"	97°24'00"	0.7 mile WNW of ICWW Marker 193
	Upper Laguna Madre	55	27°18'40"	97°23'51"	0.2 mile SE of ICWW Flasher 207
	Upper Laguna Madre	56	27°14'00"	97°25'40"	0.8 mile SW of ICWW Flasher 19a
	Upper Laguna Madre	57	27°12'42"	97°25'49"	0.6 mile WSW of ICWW Marker 31a
	Upper Laguna Madre	58	27°12'20"	97°25'36"	0.6 mile S of ICWW Marker 31a
	Upper Laguna Madre	59	27°11'49"	97°26'08"	0.6 mile NW of ICWW Flasher 43a
	Upper Laguna Madre	60	27°10'39"	97°25'45"	0.7 mile NNE of ICWW Marker 55a
	Upper Laguna Madre	61	27°10'07"	97°26'30"	0.5 mile WNW of ICWW Marker 55a
	Upper Laguna Madre	62	27°09'56"	97°25'54"	0.1 mile SE of ICWW Marker 55a
	Upper Laguna Madre	63	27°08'26"	97°26'19"	0.1 mile S of ICWW Marker 67a
	Baffin	64	27°18'27"	97°27'49"	3.7 miles WNW of ICWW Marker 217
	Baffin	65	27°15'07"	97°28'17"	3.5 miles WNW of ICWW Flasher 19a
	Baffin	66	27°17'37"	97°29'13"	1.8 miles NE of E Kleberg Point
	Baffin	67	27°14'25"	97°30'15"	2.4 miles S of E Kleberg Point
	Alazan	68	27°18'45"	97°29'48"	3.3 miles ENE of Starvation Point
	Alazan	69	27°19'40"	97°30'22"	3.3 miles NE of Starvation Point
	Alazan	70	27°18'20"	97°31'04"	2.2 miles NNW of E Kleberg Point
	Alazan	71	27°19'53"	97°32'43"	2.8 miles N of Starvation Point
	Baffin	72	27°13'43"	97°32'41"	4.0 miles S of Starvation Point
	Alazan	73	27°17'30"	97°36'03"	0.9 mile NE of Kleberg Point
	Baffin	74	27°15'47"	97°38'27"	0.8 mile SSE of Pie de Gallo
	Laguna Salada	75	27°16'20"	97°40'00"	1.0 mile S of Riviera Beach
	Laguna Salada	76	27°15'55"	97°42'45"	0.8 mile SSW of Williamson's Boat Dock
	Laguna Salada	77	27°15'45"	97°43'30"	1.5 miles SW of Williamson's Boat Dock
	Laguna Salada	78	27°16'55"	97°41'18"	1.5 miles WSW of Riviera Beach
	Baffin	79	27°17'20"	97°39'40"	Baffin Bay shore immediately E of Riviera Beach
	Cayo del Grullo	80	27°21'15"	97°41'45"	1.3 mile N of Loyola Beach
	Cayo del Grullo	81	27°21'56"	97°40'34"	2.5 miles NNE of Loyola Beach
	Laguna Madre	82	27°20'35"	97°40'00"	1.7 miles ENE of Loyola Beach

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Cayo del Grullo	83	27°19'43"	97°39'30"	ENE of Kleberg County Kaufer Park
	Cayo del Grullo	84	27°18'09"	97°39'00"	2.0 miles NE of Riviera Beach
	Upper Laguna Madre	85	27°35'16"	97°15'50"	1.8 mile SE of Pita Island
	Upper Laguna Madre	86	27°33'28"	97°15'50"	3.3 mile SSE of Pita Island
	Upper Laguna Madre	87	27°31'11"	97°17'30"	On W shore of N Bird Island
	Upper Laguna Madre	88	27°29'40"	97°17'45"	0.5 mile E of S Bird Island
	Upper Laguna Madre	89	27°24'20"	97°22'10"	1.2 mile WSW of Marker 155
	Upper Laguna Madre	90	27°23'07"	97°22'55"	0.8 mile W of Flasher 169
	Upper Laguna Madre	91	27°21'47"	97°23'30"	0.7 mile W of Marker 181
	Baffin	92	27°19'04"	97°25'12"	1.2 mile WNW of Flasher 207
	Cayo del Grullo	93	27°19'32"	97°38'32"	1.7 mile N of Sandy Hook
	Cayo del Grullo	94	27°18'35"	97°40'09"	1.0 mile WNW of Neubauer Point
	Baffin	95	27°14'30"	97°35'00"	2.0 miles SE of Kleberg Point
	Lower Laguna Madre	Upper Laguna Madre	96	27°20'50"	97°23'00"
Upper Laguna Madre		97	27°08'40"	97°26'10"	0.2 mile E of old Marker 185
Alazan		98	27°23'20"	97°29'10"	0.5 mile SSW of Alazan Mott
Laguna Salada		99	27°16'10"	97°43'47"	0.8 mile SW of Williamson's Boat Dock
Lower Laguna Madre		1	26°23'40"	97°19'35"	NW tip of Green Island
Lower Laguna Madre		2	26°21'10"	97°19'30"	W side of dump W of ICWW Marker 2
Lower Laguna Madre		3	26°22'00'	97°19'20"	Dump off mouth of Arroyo Colorado
Lower Laguna Madre		4	26°23'15"	97°19'20"	SW tip of Green Island
Lower Laguna Madre		5	26°03'10"	97°11'50"	S end of Long Island at Port Isabel
Lower Laguna Madre		6	26°48'00"	97°28'20"	W of ICWW Marker 223A
Lower Laguna Madre		7	26°45'15"	97°28'10"	W of ICWW Marker 237
Lower Laguna Madre		8	26°44'00"	97°28'10"	W of ICWW Marker 241
Lower Laguna Madre		9	26°42'30"	97°28'00"	W of ICWW Marker 245
Lower Laguna Madre		10	26°40'40"	97°27'30"	W of ICWW Marker 253
Lower Laguna Madre	11	26°39'40"	97°27'15"	W of ICWW Marker 259	
Lower Laguna Madre	12	26°39'10"	97°27'10"	W of ICWW Marker 261A	
Lower Laguna Madre	13	26°38'15"	97°26'45"	W of ICWW Marker 265	
Lower Laguna Madre	14	26°36'55"	97°26'50"	W of ICWW Marker 269	

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Lower Laguna Madre	Lower Laguna Madre	15	26°35'50"	97°20'15"	W of ICWM Marker 273A
	Lower Laguna Madre	16	26°33'30"	97°22'25"	S side of dump between Mansfield channel Markers 34 and 36
Lower Laguna Madre	Lower Laguna Madre	17	26°31'40"	97°25'11"	W of ICWM Marker 289
	Lower Laguna Madre	18	26°30'15"	97°24'20"	W of ICWM Marker 293A
	Lower Laguna Madre	19	26°31'48"	97°24'20"	W side of dump at ICWM Marker 289
Lower Laguna Madre	Lower Laguna Madre	20	26°30'50"	97°23'50"	W side of dump at ICWM Marker 293
	Lower Laguna Madre	21	26°29'50"	97°23'30"	W side of dump by ICWM Marker 297A
Lower Laguna Madre	Lower Laguna Madre	22	26°17'35"	97°17'20"	E first dump of Three Islands
	Lower Laguna Madre	23	26°18'05"	97°17'35"	Dump just E of ICWM Marker 33
	Lower Laguna Madre	24	26°17'50"	97°18'00"	Three Islands W of ICWM Marker 33
	Lower Laguna Madre	25	26°18'20"	97°17'45"	Marker 33
Lower Laguna Madre	Lower Laguna Madre	26	26°07'50"	97°17'15"	Dump just E of ICWM Marker 31
	Lower Laguna Madre	27	26°07'10"	97°17'00"	NW end of Loma de la Grulla
	Lower Laguna Madre	28	26°05'35"	97°16'50"	S end of Loma de la Grulla
	Lower Laguna Madre	29	26°09'20"	97°10'50"	0.5 mile SE of Laguna Vista tower
Lower Laguna Madre	Lower Laguna Madre	30	26°08'50"	97°10'40"	1.5 miles N of Padre Island water tower
	Lower Laguna Madre	31	26°04'00"	97°11'50"	0.25 mile N of Padre Island water tower
South Bay	South Bay	32	26°01'50"	97°10'20"	N end of Long Island at Port Isabel
	South Bay	33	26°21'00"	97°26'00"	E shore of South Bay, E of shipwreck
Lower Laguna Madre	Arroyo Colorado	34	26°47'10"	97°28'20"	Near inlet of ditch in Old Arroyo channel
	Lower Laguna Madre	35	26°46'10"	97°28'15"	W of ICWM Marker 229
	Lower Laguna Madre	36	26°41'40"	97°27'50"	W of ICWM Marker 234
	Lower Laguna Madre	37	26°34'48"	97°25'50"	W of ICWM Marker 249A
	Lower Laguna Madre	38	26°32'50"	97°25'05"	W of ICWM Marker 277A
	Lower Laguna Madre	39	26°24'45"	97°20'30"	W of ICWM Marker 285
	Lower Laguna Madre	40	26°17'00"	97°17'05"	Dump E of ICWM Marker 317
	Lower Laguna Madre	40	26°17'00"	97°17'05"	E side of island E of IWCC Marker 39

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Lower Laguna Madre	Lower Laguna Madre	41	26°18'15"	97°18'00"	Dump W of ICWW Marker 31
		42	26°17'50"	97°17'20"	Joe Breuer's cabin
		43	26°06'40"	97°13'00"	Dump W of ICWW Marker 127
		44	26°01'12"	97°11'13"	S shore at projection SSW of shipwreck
		45	26°24'35"	97°20'15"	Second dump east of ICWW Marker 317
		46	26°24'55"	97°20'10"	Third dump east of ICWW Marker 317
Lower Laguna Madre	Lower Laguna Madre	47	26°24'55"	97°20'05"	Fifth dump east of ICWW Marker 317
		48	26°23'30"	97°20'10"	East of ICWW Marker 321 on east side of land strip
Lower Laguna Madre	Lower Laguna Madre	49	26°19'20"	97°18'25"	Dump west of ICWW Marker 19
		50	26°21'25"	97°18'55"	First dump east of ICWW Marker 2
Lower Laguna Madre	Lower Laguna Madre	51	26°31'30"	97°18'45"	Second dump east of ICWW Marker 2
		52	26°21'28"	97°18'30"	Third dump east of ICWW Marker 2
Lower Laguna Madre	Lower Laguna Madre	53	26°17'48"	97°17'28"	Breuer's cabin dump
		54	26°11'00"	97°17'50"	Mainland shore west of ICWW Marker 89
Lower Laguna Madre	Lower Laguna Madre	55	26°09'20"	97°17'45"	Moranco Blanco
		56	26°06'50"	97°17'25"	Mouth of Laguna Vista Cove
		57	26°07'00"	97°16'25"	First east dump on Laguna Vista diagonal channel
Lower Laguna Madre	Lower Laguna Madre	58	26°07'40"	97°16'30"	Dump east of Loma de la Grulla wellhead
		59	26°06'50"	97°16'40"	First west dump on Laguna Vista diagonal channel
Lower Laguna Madre	Lower Laguna Madre	60	26°12'15"	97°11'15"	2.5 miles N of South Padre Island water tower
		61	26°12'50"	97°11'30"	3.5 miles N of South Padre Island water tower
Lower Laguna Madre	Lower Laguna Madre	64	26°04'50"	97°14'30"	1.0 mile E of Laguna Heights Pier
		65	26°05'20"	97°10'00"	Just S of new causeway
		66	26°33'20"	97°24'08"	E. side of dump on S side of Mansfield channel Marker 24

Table A.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Lower Laguna Madre	Lower Laguna Madre	67	26°33'50"	97°24'50"	Dump N of Mansfield channel Marker 26
Lower Laguna Madre	Lower Laguna Madre	69	26°04'10"	97°09'50"	0.25 mile E of South Padre Island Coast Guard Station
Lower Laguna Madre	Lower Laguna Madre	70	26°12'10"	97°15'45"	ICWW Marker 79, spoil dump

^a denotes channel markers south of Riviera Channel - Baffin Bay. Marker numbers recycle back to "1" at this point.

Appendix B. Bag seine site identification.

Table B.1. Bag seine sites in each bay system.

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Galveston	Galveston	201	29°30'20"	94°57'05"	0.2 mile E of Houston Lighting and Power Company's P. H. Robinson Generating Station's discharge canal
	Galveston	202	29°30'45"	94°58'40"	Bacliff Public Boat Ramp
	Dickinson	203	29°28'20"	94°57'10"	Inside Dickinson Bay
	Dickinson	204	29°27'40"	94°56'30"	0.3 mile W of Marker 21 in Dickinson Bay Channel
	Moses Lake	205	29°26'05"	94°56'05"	1.2 mile SW of tide gate on entrance of Moses Lake
	Moses Lake	206	29°25'40"	94°57'05"	NE side of mouth of Moses Bayou
	Moses Lake	207	29°25'20"	94°56'20"	S shore of Moses Lake, 0.8 mile E of mouth
	West	208	29°16'05"	94°59'10"	0.1 mile NE of Greens Cut
	Galveston	209	29°26'30"	95°54'10"	0.9 mile E of tide gate of entrance of Moses Lake
	Galveston	210	29°24'10"	94°53'10"	1.0 mile N of Texas City Dike
	West	211	29°18'00"	94°56'50"	0.2 mile NE of Brasford Bayou
	Galveston	212	29°20'40"	94°53'40"	0.7 mile N of Campbell Bayou
	Galveston	213	29°20'00"	94°53'50"	0.2 mile S of Campbell Bayou
	Jones Lake	214	29°18'45"	94°55'45"	1.2 mile W of ramp of E end of Jones Lake
	Trinity	215	29°37'10"	94°42'40"	0.5 mile N of Lone Oak Bayou
	West	216	29°16'35"	94°58'30"	0.6 mile SW of ICW Marker 6
	Greens Lake	217	29°15'45"	94°59'55"	SW shore of Greens Lake
	Greens Lake	218	29°16'35"	94°59'30"	N shore of Greens Lake
	West	219	29°14'15"	95°00'55"	0.2 mile SW of Carancahua Cut
	Galveston	220	29°20'10"	94°46'45"	Sea Wolf Park
	West	221	29°13'10"	95°01'45"	1.4 mile SW of mouth of Carancahua Cut
	Halls Lake	222	29°10'45"	95°06'20"	0.2 mile S of The Narrows, SW shore of Halls Lake
	West	223	29°09'00"	95°02'40"	Sea Isle
	Chocolate	224	29°11'10"	95°06'30"	0.3 mile NW of The Narrows
	Chocolate	225	29°11'50"	95°07'15"	0.1 mile E of Amerada Cut
	Chocolate	226	29°11'40"	95°07'40"	0.6 mile NE of Nymph Point

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Galveston	Chocolate	227	29°11'25"	95°08'15"	N edge Nymph Point
	Chocolate	228	29°12'25"	95°10'25"	0.2 mile N of Grassy Point
	Chocolate	229	29°11'30"	95°11'00"	1.4 mile W of Horse Grove Point
	Chocolate	230	29°11'15"	95°09'25"	0.5 mile S of Horse Grove Point
	Chocolate	231	29°10'30"	95°09'05"	0.5 mile S of Wharton Camp Bayou
	Chocolate	232	29°09'30"	95°09'15"	0.6 mile NW ICWW Marker 10
	West	233	29°08'15"	95°09'35"	0.4 mile S of ICWW Marker 11
	West	234	29°06'30"	95°09'40"	0.3 mile NW Guyton Cut
	Oyster Lake	235	29°07'45"	95°10'20"	N shore of Oyster Lake
	Oyster Lake	236	29°07'05"	95°10'50"	SW shore of Oyster Lake, 0.2 mile NW of mouth
	Bastrop	Bastrop	237	29°06'40"	95°11'05"
Bastrop		238	29°06'30"	95°10'15"	0.8 mile NW of Guyton Cut
Lost Lake		239	29°04'55"	95°12'40"	S shore of Lost Lake
Bastrop Bay		240	29°05'55"	95°11'55"	0.4 mile NE of dredged channel that connects W side of Bastrop Bay with ICWW
Bastrop Bay	Bastrop Bay	241	29°04'40"	95°11'10"	0.8 mile W of Christmas Point
	Christmas	242	29°04'25"	95°11'15"	0.9 mile SW of Christmas Point
	Christmas	243	29°03'40"	95°12'10"	1.9 mile SW of Christmas Point
	Christmas	244	29°02'50"	95°13'15"	1.3 mile NW of Rattlesnake Point
	Christmas	245	29°01'55"	95°11'45"	0.1 mile NE of Cedar Cut
	Christmas	246	29°02'20"	95°10'55"	1.0 mile NE of Cedar Cut
	Christmas	247	29°03'20"	95°09'40"	0.2 mile S of Churchill Bayou
	West	248	29°09'45"	95°01'50"	NE shore of Snake Island Cove
	West	249	29°10'20"	95°01'20"	0.2 mile NE of Maggie's Point
	West	250	29°10'35"	95°01'10"	McAllis Point
	West	West	251	29°11'00"	95°00'40"
West		252	29°11'20"	94°59'45"	SE shore of Jumbille Cove
West		253	29°12'30"	94°58'35"	NE shore of Carancahua Cove
West		254	29°12'40"	94°57'50"	SW shore of Dana Cove
West		255	29°13'05"	94°57'40"	Point between Dana Cove and Hoeckers Cove
West		256	29°13'40"	94°57'05"	SE edge of Hoeckers Point
West		257	29°13'55"	94°56'55"	0.1 mile NE of Tucker Bayou

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Galveston	West	258	29°14'05"	94°56'20"	SW shore of Starvation Cove
	West	259	29°14'10"	94°56'05"	SW edge of Mentzell Bayou
	West	260	29°14'45"	94°55'40"	0.4 mile SW of Auzston Bayou
	East	261	29°27'40"	94°41'40"	1.6 mile SW of Elmgrove Point
	East	262	29°28'30"	94°40'30"	0.3 mile W of Elmgrove Point
	East	263	29°28'30"	94°39'00"	0.4 mile NW of Bob's Cut
	East	264	29°29'30"	94°35'50"	S edge of Yates Bayou
	East	265	29°30'20"	94°35'45"	N edge of Big Pasture Bayou
	East	266	29°31'30"	94°34'40"	0.4 mile SW of canal through Long Point
	East	267	29°31'50"	94°33'50"	0.5 mile NE of canal through Long Point
	East	268	29°31'20"	94°32'25"	1.7 mile E of canal through Long Point
Galveston	East	269	29°33'20"	94°31'50"	1.0 mile NW of Frozen Point
	East	270	29°34'10"	94°34'20"	0.2 mile SW of Robinson Bayou
	East	271	29°33'20"	94°36'30"	Second windmill W of Robinson Bayou
Galveston	East	272	29°32'10"	94°41'10"	Stephenson Point
	Trinity	273	29°36'40"	94°43'10"	NW side of spoil island off Lone Oak Bayou
	Trinity	274	29°40'30"	94°42'00"	NW side of spoil island 0.2 mile S at Black Point
Galveston	Trinity	275	29°39'40"	94°42'00"	0.8 mile N of Double Bayou, on NW side of spoil island
	Trinity	276	29°19'20"	94°45'30"	East Lagoon
	Trinity	277	29°44'50"	94°49'30"	0.5 mile SW of Houston Lighting and Power Company's Cedar Bayou Generating Station's discharge canal
Galveston	Trinity	278	29°22'00"	94°48'55"	Texas City Dike
	Trinity	279	29°42'20"	94°51'30"	2.4 mile SW of Point Barrow
	Galveston	280	29°39'30"	94°55'50"	Mesquite Knoll
	Galveston	281	29°41'55"	94°57'10"	0.3 mile W of Houston Lighting and Power Company's Cedar Bayou Generating Station's intake canal

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Galveston	Galveston	282	29°35'20"	94°59'30"	N edge of Surf Oaks	
	Galveston	283	29°34'55"	95°00'00"	0.7 mile SW of Surf Oaks	
	East	284	29°32'35"	94°30'00"	1.3 mile E of Frozen Point	
	West	285	29°12'15"	94°57'25"	NE shore of Oak Bayou, 0.9 mile E of mouth	
	Trinity	Trinity	286	29°42'25"	94°41'25"	Ash Point
		Christmas	287	29°02'50"	95°10'05"	0.7 mile S of mouth of Churchill Bayou
	Galveston	Galveston	288	29°19'30"	94°49'25"	W Pelican Island
		West	289	29°13'20"	94°56'00"	NE side of Tucker Bayou, 1.1 mile SE of mouth
	West	West	290	29°15'20"	94°55'10"	W end of Anderson Ways Road
		Trinity	291	29°44'10"	94°42'00"	W shore of spoil island at Round Point
	West	West	292	29°06'30"	95°06'10"	1.4 mile NE of E side of San Luis Pass
		Galveston	293	29°41'05"	94°58'15"	E shore of Atkinson Island, 0.3 mile SE of Barbours Cut
	Trinity	Trinity	294	29°40'20"	94°52'10"	Umbrella Point
		West	295	29°16'15"	94°53'20"	0.6 mile SW of Teichman Point
		Galveston	296	29°17'25"	94°52'05"	SE end of railroad bridge
		Galveston	297	29°20'20"	94°49'20"	W side of Pelican Island, 0.3 mile south ICWW Galveston-Freeport cut off
	Galveston	Galveston	298	29°21'05"	94°49'35"	N tip of Pelican Island, 0.4 mile NW of ICWW
		Galveston	299	29°25'30"	94°43'30"	0.8 mile SW of Sievers Cut
	Galveston	Galveston	300	29°23'40"	94°45'40"	Baffle Point
		East Matagorda	201	28°42'47"	95°40'10"	2 miles east of Brown Cedar Cut; Southeast Pocket
	East Matagorda	East Matagorda	202	28°44'15"	95°40'55"	1.0 mile NE of Brown Cedar Cut
		East Matagorda	203	28°45'25"	95°40'28"	1.0 mile W of Caney Creek Cutoff
		East Matagorda	204	28°45'00"	95°41'25"	2.0 miles W of Caney Creek Cutoff; N shore Brown Cedar Cut
		East Matagorda	206	28°44'10"	95°49'20"	Boggy Bayou Cut East
	East Matagorda	207	28°43'00"	95°52'40"	S of Micro Tower; Little Boggy Bayou Cut East	

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
East Matagorda	East Matagorda	208	28°42'40"	95°53'45"	Little Boggy Bayou Cut West
	East Matagorda	209	28°43'10"	95°43'55"	2.0 miles W of Brown Cedar Cut; S shore
East Matagorda	East Matagorda	210	28°44'04"	95°42'37"	S of Mouth of Little Boggy Bayou
	East Matagorda	211	28°41'56"	95°55'45"	North shore line 1 mile west of Little Boggy Bayou
East Matagorda	East Matagorda	212	28°37'43"	95°57'00"	Southwest pocket
	East Matagorda	213	28°43'27"	95°42'57"	1 mile west Brown Cedar Cut; S shore
East Matagorda	East Matagorda	217	28°44'48"	95°47'13"	Pelton Lake South
	East Matagorda	218	28°40'46"	95°49'36"	0.5 mile NE of Kain Cove
	East Matagorda	219	28°41'17"	95°48'00"	1.0 mile SW of Eidelbach Flat
	East Matagorda	220	28°42'39"	95°44'42"	Desert Catchall Basin
	East Matagorda	221	28°44'17"	95°43'40"	1.5 mile SW of mouth of Boggy Bayou Chinquapin
East Matagorda	East Matagorda	224	28°43'45"	95°50'34"	1.0 mile W of Boggy Bayou
	East Matagorda	225	28°42'25"	95°51'30"	1.0 mile E of Micro Tower; between Boggy and Little Boggy Bayou Cut
East Matagorda	East Matagorda	226	28°42'15"	95°54'43"	Mouth of Little Boggy Bayou
	East Matagorda	227	28°40'45"	95°56'38"	NE of Egret Island
	East Matagorda	228	28°40'00"	95°56'20"	St. Marys Bayou #1
	East Matagorda	229	28°30'15"	95°57'00"	St. Marys #2
	East Matagorda	230	28°38'31"	95°57'10"	Bayou #1
	East Matagorda	231	28°37'50"	95°56'10"	Spring Bayou Cove
	East Matagorda	232	28°38'15"	95°54'18"	Buckhart Cove
	East Matagorda	233	28°38'35"	95°53'45"	Boiler Bayou
	East Matagorda	234	28°39'10"	95°52'35"	Hog Island
	East Matagorda	235	28°39'50"	95°51'07"	Cleveland Bayou
	East Matagorda	236	28°40'15"	95°50'20"	Kain Cove
	East Matagorda	237	28°41'50"	95°47'10"	Eidelback Flat
	East Matagorda	238	28°42'07"	05°46'07"	Oyster Farm Drain
	East Matagorda	239	28°57'00"	95°46'35"	Northeast shore
	East Matagorda	240	28°46'05"	95°47'43"	Southeast shore
	Matagorda	Matagorda	201	28°38'40"	96°18'17"
Turtle		202	28°39'43"	96°18'16"	Silver Creek
Turtle		203	28°40'35"	96°17'52"	Shell Beach
Turtle		204	28°41'08"	96°17'00"	Buttermilk Slough

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Matagorda	Turtle	205	28°43'10"	96°15'25"	Upper Turtle Bay
	Matagorda	206	28°27'12"	96°20'51"	Bird Island
	Turtle	207	28°40'20"	96°16'55"	Turtle Point
	Matagorda	208	28°41'35"	96°14'10"	Settegest Marsh
	Tres Palacios	209	28°44'47"	96°11'10"	Slaughter Flats
	Tres Palacios	210	28°45'15"	96°10'10"	Tres Palacios River, East
	Tres Palacios	211	28°44'10"	96°10'51"	Pepper Hill
	Lavaca	212	28°41'20"	96°34'33"	Lavaca River Channel Marker 16
	Lavaca	213	28°36'00"	96°36'52"	Harbor of Refuge, North
	Matagorda	214	28°36'22"	96°24'31"	Smith Ranch fence, 2 mi. SW Caranchua Pass
	Tres Palacios	215	28°41'30"	96°12'21"	Redfish Lake
	Matagorda	216	28°26'33"	96°23'44"	Pt. O'Connor Little jetties
	Matagorda	217	28°24'05"	96°24'20"	Saluria Bayou North
	Matagorda	218	28°26'15"	96°20'00"	North Inside jetties
Matagorda	219	28°38'35"	96°14'00"	Oliver Point South	
Matagorda	220	28°37'53"	96°13'22"	Pipeline Crossing	
Matagorda	221	28°37'00"	96°12'45"	Palacios Bayou Flats	
Matagorda	222	28°35'25"	96°13'50"	Boat Harbor	
Oyster Lake	Matagorda	223	28°37'22"	96°11'16"	Oyster Lake
Oyster Lake	Matagorda	224	28°37'41"	96°10'40"	N Corner, Oyster Lake
Matagorda	Matagorda	225	28°34'47"	96°13'00"	Palacios Point South
Matagorda	Matagorda	226	28°35'44"	96°11'00"	ICMW, Southwest
Matagorda	Matagorda	227	28°35'53"	96°10'16"	ICMW, Northwest
Matagorda	Matagorda	228	28°37'20"	96°06'26"	Mad Island
Matagorda	Matagorda	229	28°36'32"	96°09'00"	Tank Battery
Matagorda	Matagorda	230	28°35'50"	96°03'15"	Between tide gauge and Watermelon Mott
Matagorda	Matagorda	231	28°35'22"	96°02'43"	Tide Gauge
Matagorda	Matagorda	232	28°33'07"	96°07'15"	Watermelon Mott
Matagorda	Matagorda	233	28°31'17"	96°11'25"	Oil Well Cut
Matagorda	Matagorda	234	28°29'05"	96°15'00"	Poco Aqua
Matagorda	Matagorda	235	28°25'00"	96°21'35"	Decro Point
Matagorda	Matagorda	236	28°27'10"	96°29'30"	La Salle Bayou
Powderhorn Lake	Powderhorn Lake	237	28°30'00"	96°29'05"	East Corner Powderhorn Lake
Powderhorn Lake	Powderhorn Lake	238	28°29'00"	96°30'42"	Powderhorn Ranch Marsh
Powderhorn Lake	Powderhorn Lake	239	28°28'37"	96°31'39"	Powderhorn Lake, West
Powderhorn Lake	Powderhorn Lake	240	28°30'10"	96°31'00"	Powderhorn N Central Shore

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Matagorda	Lavaca	241	28°33'25"	96°31'30"	Indian Point	
	Lavaca	242	28°34'50"	96°36'25"	1 mile West of Alamo Beach	
	Matagorda	243	28°31'54"	96°36'20"	Blind Bayou	
	Matagorda	244	28°27'37"	96°24'40"	Boggy Bayou	
	Lavaca	245	28°41'46"	96°39'45"	Six Mile Creek	
	Lavaca	246	28°42'38"	96°38'31"	Garcitas Cove	
	Lavaca	247	28°43'05"	96°37'11"	Venado West	
	Lavaca	248	28°42'30"	96°34'15"	2 miles SE Venado Creek	
	Lavaca	249	28°43'10"	96°35'00"	0.5 miles E. Venado Creek	
	Redfish Lake	250	28°47'41"	96°34'27"	Redfish Lake, Northwest	
	Redfish Lake	251	28°46'41"	96°33'43"	Redfish Lake, Southeast	
	Lavaca	252	28°38'07"	96°36'50"	Noble Point	
	Swan Lake	253	28°45'00"	96°34'09"	Swan Lake, North	
	Swan Lake	254	28°43'55"	96°33'41"	Swan Lake, East	
	Cox	255	28°38'22"	96°33'05"	Point Comfort Harbor	
	Lavaca	256	28°39'58"	96°34'30"	Alcoa	
	Lavaca	257	28°36'52"	96°30'00"	Rhodes Point	
	Cox	258	28°38'24"	96°31'05"	Cox Point	
	Matagorda	259	28°30'00"	96°14'25"	Greens Bayou Point	
	Cox	260	28°34'24"	96°30'35"	Huisache Cove	
	Cox	261	28°38'07"	96°30'00"	Cox Cove, North	
	Matagorda	262	28°28'00"	96°17'00"	Matagorda Airfield Club jetties, North	
	Keller	Keller	263	28°36'33"	96°28'55"	Mud Point
		Keller	264	28°37'49"	96°28'00"	Olivia
		Keller	265	28°37'39"	96°27'02"	Smith Ranch House
		Keller	266	28°35'55"	96°26'20"	Smith's Slough
Keller		267	28°35'10"	96°27'35"	Keller Bay, SW Corner	
Keller		268	28°35'48"	96°28'30"	Smith's Point	
Lavaca		269	28°35'00"	96°29'00"	Humble Oil Dock	
Lavaca		270	28°35'15"	96°29'18"	Sand Point Lavaca	
Matagorda		271	28°35'25"	96°26'20"	Smith's Cedars	
Redfish Lake		272	28°37'43"	96°23'07"	Redfish Lake, N Pocket	
Redfish Lake		273	28°37'15"	96°22'55"	Redfish Lake, E Shore	
Redfish Lake		274	28°37'15"	96°23'55"	Redfish Lake, SW Shore	
Salt Lake		275	28°37'50"	96°23'53"	Salt Lake, E Pocket	
Salt Lake		276	28°37'55"	96°25'00"	Salt Lake, W Pocket	
Carancahua		277	28°38'26"	96°25'00"	Port Alto, South	

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Matagorda	Carancahua	278	28°41'33"	96°24'42"	Port Alto, North	
	Carancahua	279	28°42'31"	96°25'55"	Wolf Point Flats	
	Carancahua	280	28°44'19"	96°26'18"	Carancahua Bay, North	
	Carancahua	281	28°44'32"	96°25'51"	Carancahua Bay, East	
	Carancahua	282	28°43'03"	96°25'48"	Cape Carancahua	
	Carancahua	283	28°44'05"	96°25'20"	Crescent V, West	
	Carancahua	284	28°43'57"	96°23'40"	Crescent V, East	
	Matagorda	285	28°25'00"	96°24'05"	Big Bayou	
	Carancahua	286	28°39'43"	96°22'16"	Houston Point	
	Carancahua	287	28°37'57"	96°21'34"	Schicke Point, Inside	
	Matagorda	288	28°37'30"	96°21'34"	Schicke Point, Outside	
	Matagorda	289	28°38'20"	96°20'00"	Piper Lake	
	Matagorda	290	28°38'30"	96°19'11"	Marine Fisheries Research Station	
	Matagorda	291	28°36'28"	96°59'05"	S E Pocket	
	Matagorda	292	28°32'10"	96°09'54"	Trout Bayou	
	Matagorda	293	28°30'30"	96°12'35"	Cotton Bayou	
	Matagorda	294	28°27'25"	96°18'15"	Tom Cherry	
	Matagorda	295	28°28'24"	96°25'24"	Broad Bayou	
	Matagorda	296	28°30'32"	96°28'47"	Powderhorn Bayou	
	Lavaca	297	28°35'00"	96°35'00"	Alamo Beach	
	Matagorda	298	28°34'12"	96°28'49"	Sand Point, South	
	Matagorda	299	28°37'00"	96°22'55"	Carancahua Pass, West	
	Lavaca	300	28°33'50"	96°32'50"	1 mile NW of Magnolia Beach boat launch	
	San Antonio	San Antonio	201	28°23'22"	96°42'35"	Swan Point
		San Antonio	202	28°22'45"	96°41'50"	Mosquito Cove, 1 mile S of Swan Point
		San Antonio	203	28°21'55"	96°42'00"	Mosquito Cove, 1.25 miles N of Mosquito Cove
		San Antonio	204	28°19'00"	96°39'15"	W point of Grass Island
		San Antonio	205	28°19'05"	96°37'55"	E point of Grass Island
		Shoalwater	206	28°19'25"	96°38'00"	N point of Grass Island
		San Antonio	207	28°18'15"	96°37'35"	Small island just W of Steamboat Island
Espiritu Santo		208	28°18'36"	96°37'05"	Middle of E side of Steamboat Island	

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
San Antonio	Shoalwater	209	28°19'30"	96°36'55"	1 mile from W point of Long Island in Shoalwater Bay
	Espiritu Santo	210	28°19'25"	96°37'35"	1.25 mile from W point of Long Island in Espiritu Santo Bay
	Espiritu Santo	211	28°20'20"	96°35'47"	2.50 miles from W point of Long Island in Espiritu Santo Bay
	Espiritu Santo	212	28°21'10"	96°34'52"	Long Island 0.5 mile W of Lane
	Espiritu Santo	213	28°21'45"	96°33'52"	Long Island 0.5 mile E of Lane
	Espiritu Santo	214	28°22'10"	96°32'55"	Long Island 1.5 miles E of Lane
	Espiritu Santo	215	28°22'47"	96°31'07"	0.5 mile from W point of Dewberry Island
	Espiritu Santo	216	28°23'15"	96°30'10"	1.5 miles from W point of Dewberry Island
	Espiritu Santo	217	28°23'50"	96°29'12"	Dewberry Island 0.5 mile W of Army channel
	Espiritu Santo	218	28°24'13"	96°28'18"	Blackberry Island 0.75 mile E of Army channel
	Espiritu Santo	219	28°24'48"	96°27'12"	Blackberry Island 1.75 miles E of Army channel
	Espiritu Santo	220	28°15'18"	96°26'06"	Blackberry Island at mouth of Barroom Bay
	Espiritu Santo	221	28°23'49"	96°26'12"	1.25 miles E of Bayoucou Point
	Espiritu Santo	222	28°23'00"	96°27'09"	Bayoucou Point
	Espiritu Santo	223	28°22'40"	96°27'20"	N side of Grass Island 0.5 mile from E point
	Espiritu Santo	224	28°22'15"	96°28'10"	N side of Grass Island 0.5 mile from W point
	Espiritu Santo	225	28°21'35"	96°27'25"	W point of Farwell Island
	Espiritu Santo	226	28°21'50"	96°26'53"	E point of Farwell Island
	Espiritu Santo	227	28°21'15"	96°26'25"	0.5 mile S of second oil well off Saluria Bayou
	Espiritu Santo	228	28°21'00"	96°26'22"	Big Pocket
	Espiritu Santo	229	28°20'33"	96°26'33"	Lighthouse Cove W of derelict boat on shore
	Espiritu Santo	230	28°19'51"	96°28'48"	0.25 mile W of Army hole on Vanderveer Island
	Pringle Lake		231	28°18'51"	96°30'22"

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
San Antonio	Pringle Lake	232	28°18'22"	96°31'25"	S shore Pringle Lake 1 mile E of Rahal Bayou
	Espiritu Santo	233	28°19'25"	96°31'21"	Pringle Cut in center of Vanderveer Island
	Espiritu Santo	234	28°18'07"	96°33'10"	Rahal Bayou
	Espiritu Santo	235	28°18'05"	96°34'30"	South Pass Lake, E cut
	San Antonio	236	28°17'10"	96°35'53"	South Pass Lake, W cut
	San Antonio	237	28°16'50"	96°36'45"	Long Lake mouth on N shore
	San Antonio	238	28°16'35"	96°37'06"	Island N of Corey Cove
	San Antonio	239	28°16'05"	96°37'50"	Corey Cove point
	San Antonio	240	28°15'35"	96°37'50"	Pats Bay mouth on S shore
	San Antonio	241	28°15'12"	96°39'06"	1 mile S Pats Bay between two guts
	San Antonio	242	28°14'25"	96°39'15"	Mouth of Twin Lakes
	San Antonio	243	28°13'54"	96°39'54"	Cedar Point
	San Antonio	244	28°13'35"	96°40'00"	Mouth of Cedar Lake on S shore
	San Antonio	245	28°13'15"	96°41'00"	1 mile S of Cedar Lake
	San Antonio	246	28°12'30"	96°42'06"	0.5 mile S of Panther Point
	San Antonio	247	28°12'05"	96°41'55"	Panther Point Lake, just inside mouth on S shore
	San Antonio	248	28°11'45"	96°42'55"	1 mile S of Panther Point Lake mouth
	San Antonio	249	28°11'20"	96°45'05"	Mouth of Cottonwood Bayou
	San Antonio	250	28°11'21"	96°47'24"	Ayres Point
	Ayres	251	28°10'30"	96°48'55"	Point S of Ayres Point
	Ayres	252	28°10'05"	96°49'10"	Ayres Dugout
	Ayres	253	28°11'20"	96°50'00"	Rattlesnake Island
	Mustang Island	254	28°13'50"	96°47'30"	Mouth of Mustang Lake E shore
	San Antonio	255	28°14'43"	96°46'35"	Point of land N of Marker 35
	San Antonio	256	28°15'20"	96°47'15"	Live Oak Point
	San Antonio	257	28°16'27"	96°47'47"	Dagger Point
	San Antonio	258	28°19'17"	96°47'45"	Webb Point
	San Antonio	259	28°20'21"	96°47'33"	0.5 mile S of Hopper Landing
	San Antonio	260	28°21'48"	96°47'51"	McDowell Point
	Hynes	261	28°22'22"	96°49'00"	1 mile N of McDowell Point
	Hynes	262	28°25'20"	96°50'51"	Point of land in center head of Hynes Bay
	Hynes	263	28°25'40"	96°49'40"	1 mile S of Townsend Bayou

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
San Antonio	Hynes	264	28°25'10"	96°48'45"	Opposite steel gate in marsh
	Hynes	265	28°24'33"	96°47'50"	Swan Lake bayou N of mouth
	Hynes	266	28°23'54"	96°46'37"	Grassey Point
	San Antonio	267	28°24'25"	96°47'20"	Midway between Grassey Point and Marsh Point
	Guadalupe	268	28°25'25"	96°45'50"	Foster Point
	Hynes	269	28°24'15"	96°51'00"	Opposite tall cylindrical tower
	San Antonio	270	28°14'00"	96°47'50"	Mouth of Mustang Lake W shore
	San Antonio	272	28°20'18"	96°42'01"	Opposite Channel Marker 13
	San Antonio	273	28°19'30"	96°41'30"	Opposite Channel Marker 11
	Guadalupe	276	28°27'15"	96°47'25"	South Guadalupe River
	Guadalupe	277	28°27'05"	96°46'40"	E of South Guadalupe River
	Long Lake	278	28°17'00"	96°35'50"	N shore of Long Lake
	Long Lake	279	28°16'35"	96°35'45"	S shore of Long Lake
	Pats	280	28°15'55"	96°37'05"	N shore of Pats Bay
Aransas	San Antonio	281	28°13'40"	96°47'05"	1 mile S of False Live Oak Pt.
	San Antonio	282	28°11'25"	96°46'45"	1 mile E of Ayres Pt.
	San Antonio	283	28°11'25"	96°44'00"	2 mile S of Panther Pt. Lake mouth
	Little Aransas	201	28°01'40"	97°02'45"	SE corner of Little Bay
	Aransas	202	28°03'17"	97°02'00"	0.25 miles S of Fulton Mansion off Fulton Beach Road
	Aransas	203	28°05'21"	97°02'00"	1 mile S of Racquet Club
	Copano	204	28°06'45"	97°01'35"	S end of Copano Causeway
	Copano	205	28°08'35"	97°01'00"	N end of Copano Causeway
	Copano	206	28°04'45"	97°05'25"	0.5 miles E Hannibal Point near tanks
Copano	Copano	207	28°04'13"	97°06'26"	Junction of Salt Lake and Copano Bay
	Copano	208	28°03'35"	97°07'50"	E of Rattlesnake Point
	Copano	209	28°02'19"	97°07'48"	Mouth of Italian Bend, N shore
	Copano	210	28°01'38"	97°08'20"	E end of old bridge ruins
	Port	211	27°59'38"	97°10'02"	Redfish Camp
	Copano	212	28°01'57"	97°08'53"	Hey Camp Bend
	Copano	213	28°04'32"	97°13'28"	Black Point, SW side
	Copano	214	28°03'39"	97°11'05"	Rincon de la Cera
	Copano	215	28°07'57"	97°09'27"	Mouth of Mission, W shore

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Aransas	Copano	216	28°10'00"	97°05'27"	3.5 miles NE of mouth of Mission Bay
	Copano	217	28°11'18"	97°02'21"	1.5 mile SW of Turtle Pen Point
	Copano	218	28°10'30"	97°01'02"	Holiday Beach
	St. Charles	219	28°07'57"	96°58'28"	Hail Point
	St. Charles	220	28°08'53"	96°58'20"	Just N of Big Tree
	St. Charles	221	28°09'57"	96°56'53"	Egg Point
	Aransas	222	28°07'20"	96°56'45"	Halfway between Blackjack and Dunham Points
	Redfish	223	27°56'00"	97°56'00"	Second island NW of Big Bayou in Redfish Bay
	Carlos	224	28°07'50"	96°54'15"	NE side of Cape Carlos
	Aransas	225	28°03'12"	96°56'44"	Long Reef
	Mesquite	226	28°07'09"	96°51'08"	1.5 mile W of mouth of Cedar Bayou
	Aransas	227	27°59'52"	96°58'47"	Junction of Allyns Lake and Aransas Bay
	Aransas	228	28°01'14"	96°58'00"	1.5 mile NE of Allyns Lake
	Aransas	229	27°58'00"	96°58'48"	1.0 mile NE of St. Joseph Island Ranch House
	Aransas	230	27°56'42"	97°01'28"	N shore in middle of Mud Island
	Aransas	231	27°55'17"	97°01'03"	1.0 mile SW of oil tanks on San Jose Island
	Aransas	232	27°55'13"	97°04'22"	Corpus Christi Bayou
	Aransas	233	27°53'55"	97°08'08"	At entrance to Conn Brown Harbor
	Aransas	234	27°55'15"	97°07'22"	ICWM Marker 34
	Aransas	235	27°57'15"	97°04'15"	Oil well channel between Big and Trout bayous
	Aransas	236	27°59'05"	97°04'00"	Between Turtle Bayou and ICWM Marker 7
	Aransas	237	28°00'52"	97°03'09"	Hunts Courts
	Aransas	238	28°01'37"	97°02'35"	Rockport Beach, across from the big shell
	Copano	239	28°07'05"	97°02'22"	0.75 miles E of Redfish Point
	Copano	240	28°05'50"	97°03'04"	Third T-head N of Copano Village
	Copano	241	28°09'43"	97°01'08"	Palmetto Point
	Copano	242	28°04'18"	97°12'39"	N end of Egery Island

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Aransas	Copano	243	28°06'07"	97°12'00"	Bayside	
	Aransas	244	28°59'30"	97°04'10"	Just N of Cove Harbor between ICW Marker 10 and 12	
	Redfish	245	27°51'07"	97°04'00"	Harbor Island, near Fina Loading dock	
	Redfish	246	27°51'55"	97°04'54"	Most easterly bridge between Aransas Pass and Port Aransas	
	Redfish	247	27°53'25"	97°06'35"	Fin and Feather Bait Stand	
	Redfish	248	27°57'20"	97°05'53"	City by the Sea	
	Little	249	28°02'45"	97°02'00"	Bridge in Little Bay	
	Copano	250	28°05'10"	97°04'15"	1.0 mile SW of Aransas County Airport	
	Redfish	251	27°54'10"	97°05'47"	NE tip of Hog Island	
	Mesquite	252	28°09'55"	96°52'32"	1.0 mile W of area of junction of Sundown and Mesquite Bays	
Aransas	Aransas	253	28°04'16"	97°02'07"	Sandollar Motel	
	St. Charles	254	28°12'05"	96°55'43"	Indian Head Point	
	St. Charles	255	28°12'55"	96°57'53"	Mouth of Cavasso Creek	
	St. Charles	256	28°14'32"	96°55'34"	McHugh Bayou	
	Mesquite	257	28°08'00"	96°48'37"	Bray Cove	
	Mesquite	258	28°10'23"	96°51'07"	Roddy Island	
	Aransas	259	28°06'40"	96°53'25"	N shore of Spaldings Bight	
	Redfish	260	27°58'22"	97°04'50"	Estes Flats	
	Corpus Christi	Corpus Christi	201	27°42'51"	97°19'09"	0.75 mile SE of Oso Fishing Pier
		Corpus Christi	202	27°46'25"	97°23'21"	Holiday Inn on Ocean Drive
Corpus Christi		203	27°49'50"	97°22'48"	Rincon Point	
Corpus Christi		204	27°51'58"	97°19'37"	2.0 miles NE of Indian Point Pier	
Corpus Christi		205	27°52'48"	97°16'45"	0.75 mle W of jetties in La Quinta Channel	
Corpus Christi		206	27°51'37"	97°14'45"	0.25 mile W of La Quinta Channel Marker 14	
Sunset Lake		207	27°51'38"	97°20'36"	S end of Sunset Lake	
Nueces		208	27°52'28"	97°22'38"	Just W of clay pits	
Nueces		209	27°51'40"	97°28'30"	White Point	
Nueces		210	27°52'12"	97°25'05"	0.5 mile E of westerly power-lines on N shore	

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Corpus Christi	Nueces	211	27°50'14"	97°23'15"	Mouth of Rincon Industrial Park canal
	Nueces	212	27°51'52"	97°20'37"	Ramada Inn Motel
	Nueces	213	27°51'14"	97°21'31"	Gunderland's
	Corpus Christi	214	27°50'06"	97°13'21"	Public boat ramp in Ingleside Cove
	Corpus Christi	215	27°49'14"	97°12'09"	Sun Oil Dock 1 at Port Ingleside
	Corpus Christi	216	27°48'45"	97°11'41"	ICWM Marker 31
	Corpus Christi	217	27°49'47"	97°07'12"	N shore of Point of Mustang near Corpus Christi Channel Marker 13
	Corpus Christi	218	27°50'24"	97°06'06"	Corpus Christi Channel Marker 8
	Redfish	219	27°52'15"	97°08'04"	Middle of E shore of North Ransom Island
	Corpus Christi	220	27°49'53"	97°10'26"	S tip of Dagger Island
	Redfish	221	27°51'28"	97°10'05"	ICWM Marker 51
	Redfish	222	27°53'33"	97°07'32"	0.5 mile SE of Conn Brown Harbor on S shore
	Redfish	223	27°52'08"	97°05'55"	1.0 mile SE of Fin and Feather Marina
	Redfish	224	27°51'35"	97°04'56"	Most easterly bridge on causeway between Aransas Pass and Port Aransas
	Corpus Christi	225	27°50'21"	97°04'18"	Port Aransas side of ferry landing
	Corpus Christi	226	27°45'05"	97°08'49"	0.25 mile S of sportsmen club cabin
	Corpus Christi	227	27°45'38"	97°10'00"	Middle of Shamrock Island on SE shore
	Corpus Christi	228	27°44'36"	97°09'38"	Long Cove
	Corpus Christi	229	27°43'27"	97°10'05"	Boat Cove
	Corpus Christi	230	27°41'58"	97°10'55"	Water Exchange Channel
	Corpus Christi	231	27°41'18"	97°13'17"	ICWM Marker 3
	Redfish	232	27°52'56"	97°08'41"	Junction of Ransom Drive and ICWM
	Corpus Christi	233	27°48'30"	97°05'44"	Mustang Beach
	Nueces	234	27°51'10"	97°30'00"	Just W of Nueces River Cut on shore

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Corpus Christi	Nueces	235	27°52'30"	97°30'40"	3.0 miles NW of mouth of Nueces River
	Corpus Christi	236	27°50'35"	97°14'47"	0.25 mile NW of Ingleside on La Quinta Channel spoil
	Corpus Christi	237	27°46'35"	97°07'54"	Mouth of Sinclair Cut
	Corpus Christi	238	27°48'24"	97°23'16"	Corpus Christi Channel Marker 85
	Oso	239	27°40'48"	97°18'27"	Mouth of Oso Bay
	Corpus Christi	240	27°48'56"	97°11'15"	Corpus Christi Channel Marker 31
	Redfish	241	27°51'36"	97°08'39"	S tip of North Ransom Island
	Corpus Christi	242	27°50'05"	97°14'00"	La Quinta Channel Marker 7
	Corpus Christi	243	27°49'28"	97°13'10"	McGloin Bluff
	Oso	244	27°42'35"	97°18'33"	Mouth of Oso Bay
	Corpus Christi	245	27°44'04"	97°09'39"	Boat Cove
	Corpus Christi	246	27°43'28"	97°20'40"	0.75 mile NW of Oso Fishing Pier
	Redfish	247	27°50'51"	97°07'21"	0.75 mile E of South Ransom Island
	Corpus Christi	248	27°50'46"	97°09'22"	0.25 mile NE of Dagger Island
	Corpus Christi	249	27°49'18"	97°09'43"	Corpus Christi Channel Marker 25
	Corpus Christi	250	27°42'22"	97°17'26"	0.5 mile NW of Naval Air Station bulkheads
	Corpus Christi	251	27°48'34"	97°07'06"	East flats
	Corpus Christi	252	27°46'00"	97°09'53"	N side of Shamrock Island
	Corpus Christi	253	27°45'14"	97°09'29"	Glenn Cove
	Corpus Christi	254	27°45'21"	97°08'21"	SE of Green cabin in Shamrock Cove
	Corpus Christi	255	27°41'42"	97°14'51"	N shore of Demit Island
	Nueces	256	27°52'59"	97°23'38"	E powerlines on N shore
	Corpus Christi	257	27°48'47"	97°12'29"	SE of CCSC Marker 36
	Redfish	258	27°50'12"	97°10'11"	N shore of Dagger Island
	Corpus Christi	259	27°49'40"	97°10'46"	SW of Dagger Island
	Redfish	260	27°51'03"	97°08'08"	SE shore of S Ransom Island
	Redfish	261	27°52'41"	97°08'20"	N of N Ransom Island
	Corpus Christi	262	27°50'08"	97°07'14"	NE of CCSC Marker 14
	Corpus Christi	263	27°49'26"	97°07'55"	Point of Mustang
Upper Laguna Madre	Upper Laguna Madre	201	27°40'40"	97°15'03"	1.0 mile SSW of E tip of Demit Island
	Upper Laguna Madre	202	27°19'40"	97°24'25"	Point of Rocks
	Upper Laguna Madre	203	27°14'58"	97°25'32"	0.8 mile NW of ICWV Flasher 19(S)

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Baffin	204	27°17'02"	97°36'45"	3.2 miles E of Riviera Beach
	Baffin	205	27°18'11"	97°39'15"	1.3 miles NNW of Riviera Beach
	Laguna Salada	206	27°16'33"	97°38'57"	1.2 miles SE of Riviera Beach
	Upper Laguna Madre	207	27°41'30"	97°15'01"	S shore of Demit Island
	Laguna Salada	208	27°17'00"	97°40'18"	0.7 mile SW of Riviera Beach
	Upper Laguna Madre	209	27°40'50"	97°14'06"	0.8 mile ESE of Demit Island
	Upper Laguna Madre	210	27°40'25"	97°15'20"	1.3 miles SW of Demit Island
	Upper Laguna Madre	211	27°40'20"	97°15'57"	1.7 miles SW of Demit Island
	Upper Laguna Madre	212	27°39'20"	97°13'40"	2.0 miles WNW of Corpus Christi Pass
	Upper Laguna Madre	214	27°38'28"	97°13'45"	2.0 miles WSW of Corpus Christi Pass
	Upper Laguna Madre	215	27°38'50"	97°16'40"	1.0 miles S of Kennedy Causeway
	Upper Laguna Madre	216	27°38'25"	97°15'25"	3.0 miles NE of Pita Island
Upper Laguna Madre	217	27°37'47"	97°15'45"	2.3 miles NE of Pita Island	
Upper Laguna Madre	218	27°37'20"	97°16'20"	1.4 miles NE of Pita Island	
Upper Laguna Madre	219	27°36'00"	97°16'00"	0.3 mile ESE of Pita Island	
Upper Laguna Madre	220	27°36'30"	97°17'55"	0.6 mile NW of Pita Island	
Upper Laguna Madre	221	27°35'40"	97°17'40"	0.6 mile SW of Pita Island	
Upper Laguna Madre	222	27°32'08"	97°17'10"	0.9 mile NNE of North Bird Island	
Upper Laguna Madre	223	27°33'10"	97°19'35"	3.0 miles NW of North Bird Island	
Upper Laguna Madre	224	27°27'10"	97°19'55"	2.5 miles SSE of South Bird Island	
Upper Laguna Madre	225	27°22'08"	97°21'20"	8.6 miles SSW of South Bird Island	
Alazan Cayo del Grullo Laguna Salada		226	27°20'25"	97°31'52"	3.5 miles NNE of Starvation Point
		227	27°19'32"	97°41'00"	0.7 mile SE of Loyola Beach
Laguna Salada		228	27°16'10"	97°41'20"	1.4 miles ESE of Williamson's Boat Dock
		229	27°16'31"	97°42'20"	0.2 mile ESE of Williamson's Boat Dock
Upper Laguna Madre		230	27°36'08"	97°17'35"	SW shore of Pita Island
		231	27°34'20"	97°15'36"	2.4 miles W of Bob Hall Pier
		232	27°34'30"	97°15'55"	2.2 miles SE of Pita Island
		233	27°35'03"	97°18'15"	1.5 miles SW of Pita Island
		234	27°34'02"	97°16'40"	2.3 miles SSE of Pita Island

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Upper Laguna Madre	235	27°35'58"	97°16'15"	3.1 miles NNE of North Bird Island
		236	27°34'24"	97°19'10"	2.5 miles SW of Pita Island
		237	27°33'25"	97°16'38"	2.3 miles NNE of North Bird Island
		238	27°31'55"	97°20'10"	2.8 miles WNW of North Bird Island
		239	27°30'30"	97°18'00"	0.8 mile SW of North Bird Island
		240	27°31'00"	97°20'35"	3.2 miles W of North Bird Island
		241	27°29'50"	97°20'48"	2.5 miles W of South Bird Island
		242	27°29'00"	97°18'25"	0.7 mile S of South Bird Island
		243	27°28'10"	97°21'28"	3.3 miles WSW of South Bird Island
		244	27°26'42"	97°20'40"	3.7 miles SW of South Bird Island
		245	27°27'57"	97°21'48"	1.6 miles WNW of ICWW Marker 139
		246	27°06'00"	97°19'50"	1.9 miles S of ICWW Marker 127
		247	27°25'35"	97°20'41"	0.9 mile SSW of ICWW Marker 139
		248	27°25'10"	97°19'49"	3.0 miles S of ICWW Marker 127
		249	27°25'50"	97°22'06"	1.8 miles WSW of ICWW Marker 139
		250	27°23'48"	97°20'27"	1.5 miles SE of ICWW Marker 151
		251	27°23'32"	97°21'45"	0.8 mile NE of ICWW Flasher 169
		252	27°22'56"	97°21'04"	1.3 miles E of ICWW Flasher 169
		253	27°22'56"	97°21'04"	1.3 miles E of ICWW Marker 181
		254	27°20'31"	97°24'00"	0.7 mile WNW of ICWW Marker 193
		255	27°18'40"	97°23'51"	0.2 mile SE of ICWW Flasher 207
		256	27°12'20"	97°25'25"	0.6 mile S of ICWW Marker 31a
		257	27°10'39"	97°25'45"	0.7 mile NNE of ICWW Marker 55a
258	27°09'56"	97°25'54"	0.1 mile SE of ICWW Marker 55a		
259	27°08'30"	97°26'35"	0.1 mile E of ICWW Marker 67s		
260	27°18'27"	97°27'49"	3.7 miles WNW of ICWW Marker 217		
Baffin	Baffin	261	27°15'50"	1.0 mile W of Pt. Penascal	
Baffin	Baffin	262	27°17'37"	1.8 miles NE of East Kleberg Point	
Baffin	Baffin	263	27°14'25"	2.4 miles S of East Kleberg Point	
Alazan	Alazan	264	27°18'45"	3.3 miles ENE of Starvation Point	
Alazan	Alazan	265	27°19'40"	3.5 miles NE of Starvation Point	
Alazan	Alazan	266	27°18'20"	2.2 miles NNE of East Kleberg Point	

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Upper Laguna Madre	Alazan	267	27°19'53"	97°32'43"	2.8 miles N of Starvation Point
	Baffin	268	27°13'43"	97°32'41"	4.0 miles S of Starvation Point
	Alazan	269	27°17'30"	97°36'03"	0.9 miles NE of Kleberg Point
	Baffin	270	27°15'47"	97°38'27"	0.8 mile SSE of Pie de Gallo
	Laguna Salada	271	27°16'20"	97°40'00"	1.0 mile S of Riviera Beach
	Laguna Salada	272	27°15'55"	97°42'45"	0.8 mile SSW of Williamson's Boat Dock
	Laguna Salada	273	27°15'45"	97°43'30"	1.5 miles SW of Williamson's Boat Dock
	Laguna Salada	274	27°16'55"	97°41'18"	1.5 miles WSW of Riviera Beach
	Baffin	275	27°17'20"	97°39'35"	E of Riviera Beach on Baffin Bay shore
	Cayo del Grullo	276	27°21'15"	97°45'13"	1.3 mile N of Loyola Beach
	Cayo del Grullo	277	27°21'56"	97°40'34"	2.5 miles NNE of Loyola Beach
	Cayo del Grullo	278	27°20'35"	97°40'00"	1.7 miles ENE of Loyola Beach
	Cayo del Grullo	279	27°19'43"	97°39'30"	1.5 miles ENE of Kleberg County Kaufer Park
	Cayo del Grullo	280	27°18'09"	97°38'00"	2.0 miles NE of Riviera Beach
	Upper Laguna Madre	281	27°37'52"	97°13'12"	1.3 mile E of ICWM Bridge on Kennedy Causeway (Packery Channel)
	Upper Laguna Madre	282	27°35'16"	97°15'50"	1.8 mile SE of Pita Island
	Upper Laguna Madre	283	27°31'11"	97°17'30"	On W shore of N Bird Island
	Upper Laguna Madre	284	27°29'40"	97°17'45"	0.5 mile E of S Bird Island
	Upper Laguna Madre	285	27°24'20"	97°22'10"	1.2 mile SWS of ICWM Marker 155
	Upper Laguna Madre	286	27°23'07"	97°22'55"	0.8 mile W of ICWM Flasher 169
	Upper Laguna Madre	287	27°21'47"	97°23'30"	0.7 mile W of ICWM Marker 181
	Upper Laguna Madre	288	27°19'04"	97°25'12"	1.2 mile WNW of ICWM Flasher 207
	Baffin	289	27°19'32"	97°38'32"	1.7 mile N of Sandy Hook
	Cayo del Grullo	290	27°18'35"	97°40'09"	1.0 mile WNW of Neubauer Point
	Cayo del Grullo	291	27°14'30"	97°35'00"	2.0 mile SSE of Kleberg Point
	Upper Laguna Madre	292	27°20'50"	97°23'00"	1.5 mile NE of Point of Rocks
	Upper Laguna Madre	293	27°08'40"	97°26'10"	0.2 mile E of old Marker 185
Alazan	294	27°23'20"	97°29'10"	0.5 mile SSW of Alazan Mott	
Laguna Salada	295	27°16'10"	97°43'47"	0.8 mile SW of Williamson's Boat Dock	
Alazan	296	27°19'00"	97°34'25"	Inside mouth of Cayo del Infernillo	

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification	
Lower Laguna Madre	Lower Laguna Madre	201	26°48'00"	97°28'20"	Shore W of ICWW Marker 223A	
	Lower Laguna Madre	202	26°45'15"	97°28'10"	Shore W of ICWW Marker 237	
	Lower Laguna Madre	203	26°44'00"	97°28'10"	Shore W of ICWW Marker 241	
	Lower Laguna Madre	204	26°42'30"	97°28'00"	Shore W of ICWW Marker 245	
	Lower Laguna Madre	205	26°40'40"	97°27'30"	Shore W of ICWW Marker 253	
	Lower Laguna Madre	206	26°39'40"	97°27'15"	Shore W of ICWW Marker 259	
	Lower Laguna Madre	207	26°39'10"	97°27'10"	Shore W of ICWW Marker 261A	
	Lower Laguna Madre	208	26°38'15"	97°26'45"	Shore W of ICWW Marker 265	
	Lower Laguna Madre	209	26°36'55"	97°26'50"	Shore W of ICWW Marker 269	
	Lower Laguna Madre	210	26°35'50"	97°20'15"	Shore W of ICWW Marker 273A	
	Lower Laguna Madre	211	26°33'25"	97°22'45"	N side of Dump at Mansfield Channel Marker 37	
Lower Laguna Madre	Lower Laguna Madre	212	26°33'30"	97°22'25"	S side of Dump between Mansfield Channel Markers 34 and 36	
	Lower Laguna Madre	213	26°31'40"	97°25'11"	Shore W of ICWW Marker 289	
	Lower Laguna Madre	214	26°30'15"	97°24'20"	Shore W of ICWW Marker 293A	
	Lower Laguna Madre	215	26°31'48"	97°24'20"	W side of Dump at ICWW Marker 289	
	Lower Laguna Madre	216	26°30'50"	97°23'50"	W side of Dump at ICWW Marker 293	
	Lower Laguna Madre	217	26°29'50"	97°23'30"	W side of Dump by ICWW Marker 297A	
	Lower Laguna Madre	218	26°29'25"	97°23'15"	W side of Dump at ICWW Marker 299	
	Lower Laguna Madre	219	26°23'40"	97°19'35"	NW tip of Green Island	
	Lower Laguna Madre	220	26°22'50"	97°20'05"	E side of Dump at ICWW Marker 220	
	Arroyo Colorado	Arroyo Colorado	221	26°21'30"	97°20'25"	Mouth of Slough 0.5 mile from mouth of Arroyo Colorado
	Arroyo Colorado	Arroyo Colorado	222	26°21'15"	97°21'50"	Mouth of Parker Lake
		Lower Laguna Madre	223	26°17'50"	97°18'00"	Three Islands W of ICWW Marker 33
	Lower Laguna Madre	Lower Laguna Madre	224	26°17'25"	97°17'30"	W side of Dump E of IWCC Marker 37
		Lower Laguna Madre	225	26°18'05"	97°17'35"	Dump just E of ICWW Marker 33
		Lower Laguna Madre	226	26°18'20"	97°17'45"	Dump just E of ICWW Marker 31
		Lower Laguna Madre	227	26°17'50"	97°17'20"	Joe Breuer's cabin

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Lower Laguna Madre	Lower Laguna Madre	228	26°07'50"	97°17'15"	NW end of Loma de la Grulla
	Lower Laguna Madre	229	26°07'10"	97°17'00"	S end of Loma de la Grulla
	Lower Laguna Madre	230	26°05'35"	97°16'50"	0.5 mile SE of Laguna Vista water tower
	Lower Laguna Madre	231	26°09'20"	97°10'50"	1.5 miles N of Padre Island water tower at indentation in bar
	Lower Laguna Madre	232	26°08'50"	97°10'40"	0.25 mile N of Padre Island water tower
	Lower Laguna Madre	233	26°03'10"	97°11'50"	S end of Long Island at Port Isabel
	Lower Laguna Madre	234	26°03'20"	97°10'50"	Shore S of Brownsville Ship Channel Marker 16
	South Bay	235	26°01'50"	97°10'20"	E shore of South Bay, E of shipwreck
	Arroyo Colorado	236	26°21'00"	97°26'00"	Near ditch inlet in Old Arroyo channel
	Lower Laguna Madre	237	26°47'10"	97°28'20"	Shore W of ICWW Marker 229
	Lower Laguna Madre	238	26°46'10"	97°28'15"	Shore W of ICWW Marker 234
	Lower Laguna Madre	239	26°41'40"	97°27'50"	Shore W of ICWW Marker 249A
	Lower Laguna Madre	241	26°34'48"	97°25'50"	Shore W of ICWW Marker 277A
	Lower Laguna Madre	242	26°32'50"	97°25'05"	Shore W of ICWW Marker 285
	Lower Laguna Madre	243	26°35'50"	97°21'45"	Dump S of Mansfield Channel Marker 32
	Lower Laguna Madre	244	26°33'20"	97°24'08"	E side of dump on S side of Mansfield Channel Marker 24
	Lower Laguna Madre	245	26°33'50"	97°24'05"	Dump N of Mansfield Channel Marker 26
	Lower Laguna Madre	246	26°24'50"	97°20'50"	Dump W of Marker 315A
	Lower Laguna Madre	247	26°22'00"	97°19'20"	Dump off Mouth of Arroyo Colorado
	Lower Laguna Madre	248	26°20'35"	97°19'10"	Dump W of ICWW Marker 9
	Lower Laguna Madre	249	26°19'20"	97°18'25"	Dump W of ICWW Marker 19
	Lower Laguna Madre	250	26°18'15"	97°18'00"	Dump W of ICWW Marker 31
	Lower Laguna Madre	251	26°17'35"	97°17'20"	E side of Three Islands
	Lower Laguna Madre	252	26°17'00"	97°17'05"	E side of Island, E of ICWW Marker 41
	Lower Laguna Madre	253	26°15'45'	97°17'00"	Dump W of ICWW Marker 51
	Lower Laguna Madre	254	26°13'10"	97°16'05"	Dump W of ICWW Marker 69

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Lower Laguna Madre	Lower Laguna Madre	255	26°12'10"	97°15'45"	Dump just NW of ICWM Marker 79
	Lower Laguna Madre	256	26°06'40"	97°13'00"	Dump W of ICWM Marker 127
	Lower Laguna Madre	257	26°03'45"	97°10'10"	Shore on S side of Brownsville Ship Channel between Markers 5 and 9
	South Bay	258	26°01'12"	97°11'13"	S shore at projection SSW of ship wreck
	Lower Laguna Madre	259	26°03'45"	97°11'50"	N end of Long Island at Port Isabel
	Lower Laguna Madre	260	26°23'30"	97°20'10"	East of ICWM Marker 321 on east side of land strip
	Lower Laguna Madre	261	26°19'50"	97°18'50"	Dump west of ICWM Marker 15
	Lower Laguna Madre	262	26°09'20"	97°17'45"	Moranco Blanco
	Lower Laguna Madre	263	26°11'00"	97°17'50"	Mainland shore west of ICWM Marker 89
	Lower Laguna Madre	264	26°12'15"	97°11'15"	2.5 miles N of South Padre Island water tower
	Lower Laguna Madre	265	26°12'50"	97°11'30"	3.5 miles N of South Padre Island water tower
	Lower Laguna Madre	266	26°28'35"	97°22'45"	Dump west of ICWM Marker 301A
	Lower Laguna Madre	267	26°27'50"	97°22'15"	Dump west of ICWM Marker 305
	Lower Laguna Madre	268	26°27'00"	97°21'50"	Dump west of ICWM Marker 307A
	Lower Laguna Madre	269	26°26'12"	97°21'40"	Dump west of ICWM Marker 311
	Lower Laguna Madre	270	26°22'05"	97°19'50"	Dump west of ICWM Marker 325A
	Lower Laguna Madre	272	25°21'12"	97°19'25"	Dump west of ICWM Marker 2
	Lower Laguna Madre	273	26°20'45"	97°19'15"	Dump west of ICWM Marker 7
	Lower Laguna Madre	274	26°20'15"	97°18'58"	Dump west of ICWM Marker 11
	Lower Laguna Madre	275	26°19'28"	97°18'35"	Dump west of ICWM Marker 17
	Lower Laguna Madre	276	26°19'00"	97°18'30"	Dump west of ICWM Marker 21
	Lower Laguna Madre	277	26°18'35"	97°18'15"	Dump west of ICWM Marker 25
	Lower Laguna Madre	278	26°16'48"	97°17'25"	Dump southwest of ICWM Marker 41
	Lower Laguna Madre	279	26°14'50"	97°16'48"	Dump west of ICWM Marker 57
	Lower Laguna Madre	280	26°13'48"	97°16'30"	Dump west of ICWM Marker 63
	Lower Laguna Madre	281	26°04'50"	97°14'30"	1.0 mile E of Laguna Heights pier
	Lower Laguna Madre	282	26°05'20"	97°10'00"	Just S of new causeway
	Lower Laguna Madre	283	26°34'05"	97°25'40"	End of N dirt road Port Mansfield
	Lower Laguna Madre	284	26°48'05"	97°28'00"	Dump W of ICWM Marker 223A

Table B.1. (Cont'd.).

Bay system	Minor bay	Site number	Latitude	Longitude	Site identification
Lower Laguna Madre	Lower Laguna Madre	285	26°46'50"	97°27'45"	Dump W of ICWW Marker 229A
	Lower Laguna Madre	286	26°04'10"	97°09'50"	0.25 mile E of South Padre Island Coast Guard Station
	Lower Laguna Madre	287	26°16'22"	97°18'44"	Townsite Point
	Lower Laguna Madre	288	26°13'00"	97°18'45"	North of Stover Point
	Lower Laguna Madre	289	26°15'35"	97°17'35"	East end of El Realito Peninsula
	Lower Laguna Madre	290	26°19'55"	97°20'02"	South end of Horse Island
	Lower Laguna Madre	291	26°08'20"	97°17'30"	North end of Holly Beach

a denotes channel markers south of Riviera Channel - Baffin Bay. Marker numbers recycle back to "1" at this point.

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

Table C.1. 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 1975-1983. 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	0.7	374	0.4	426	<.1	515	<.1	515	<.1	620	<.1	620	
	1976	<.1	401	0.4	413	0.3	546	0.3	546	0.3	597	0.3	597	
	1977	0.3	391	0.1	422	0.1	534	0.1	534	<.1	660	<.1	660	
	1978	0.2	358	0.1	422	<.1	536	<.1	536	<.1	633	<.1	633	
	1979	0.6	368	0.1	451	<.1	587	<.1	587	<.1	622	<.1	622	
	1980	0.3	368	0.1	460	0.1	572	0.1	572	<.1	608	<.1	608	
	1981	0.3	365	0.1	465	0.1	549	0.1	549	<.1	622	<.1	622	
	1982	0.4	381	0.1	454	0.1	578	0.1	578	<.1	610	<.1	610	
	1983	0.4	386	0.1	463	0.1	565	0.1	565	<.1	628	<.1	628	
	Spotted seatrout	1975	0.1	372	0.1	545	<.1	607	<.1	607	<.1	540	<.1	540
		1976	0.2	387	0.1	476	0.1	607	0.1	607	0.0	649	0.0	649
		1977	0.1	398	0.1	507	0.1	578	0.1	578	<.1	649	<.1	649
		1978	<.1	377	0.1	518	0.1	608	0.1	608	<.1	670	<.1	670
1979		0.1	403	<.1	496	<.1	591	<.1	591	<.1	711	<.1	711	
1980		0.2	410	0.1	510	<.1	635	<.1	635	<.1	709	<.1	709	
1981		0.1	408	0.1	539	<.1	617	<.1	617	<.1	593	<.1	593	
1982		0.2	401	0.1	534	<.1	592	<.1	592	0.0	593	0.0	593	
1983		0.2	395	0.1	533	<.1	612	<.1	612	<.1	596	<.1	596	

Table C.1. (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	0.2	223	0.2	343	<.1	668	<.1	668	<.1	581	<.1	581
	1976	0.1	212	0.1	273	0.1	417	0.1	417	<.1	457	<.1	457
	1977	<.1	226	0.1	314	0.2	382	0.2	382	0.1	505	0.1	505
	1978	0.0		0.1	317	0.2	398	0.2	398	0.1	444	0.1	444
	1979	<.1	238	<.1	312	<.1	438	<.1	438	0.1	489	0.1	489
	1980	<.1	304	0.3	328	0.2	426	0.2	426	0.2	472	0.2	472
	1981	<.1	287	0.1	356	0.1	440	0.1	440	0.1	481	0.1	481
	1982	0.1	260	0.3	327	0.2	391	0.2	391	0.1	469	0.1	469
	1983	<.1	294	0.1	334	<.1	408	<.1	408	0.1	462	0.1	462
	Sheepshead	1975	0.0		0.0		<.1	258	<.1	258	<.1	432	<.1
1976		0.0		<.1	308	<.1	309	<.1	309	<.1	386	<.1	386
1977		0.0		0.0		<.1	354	<.1	354	<.1	340	<.1	340
1978		<.1	383	<.1	238	<.1	286	<.1	286	<.1	346	<.1	346
1979		0.0		0.0		<.1	339	<.1	339	<.1	427	<.1	427
1980		<.1	150	<.1	234	<.1	324	<.1	324	<.1	339	<.1	339
1981		<.1	338	<.1	254	<.1	340	<.1	340	<.1	360	<.1	360
1982		<.1	320	<.1	301	<.1	314	<.1	314	<.1	358	<.1	358
1983		<.1	366	<.1	218	<.1	338	<.1	338	<.1	368	<.1	368

Table C.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
Southern flounder	1975	<.1	245	<.1	270	<.1	377	<.1	446
	1976	<.1	385	<.1	270	<.1	364	<.1	421
	1977	<.1	277	0.1	310	<.1	425	<.1	434
	1978	0.0		<.1	309	<.1	362	<.1	475
	1979	<.1	272	<.1	253	<.1	478	<.1	430
	1980	<.1	354	<.1	304	0.1	373	<.1	385
	1981	<.1	278	<.1	295	<.1	346	<.1	430
	1982	<.1	351	0.1	313	<.1	361	<.1	379
	1983	<.1	272	<.1	339	<.1	350	<.1	412
	Atlantic croaker	1975	<.1	245	0.0		0.0		0.0
1976		0.2	260	<.1	328	0.0		0.0	
1977		0.1	262	0.1	321	<.1	388	0.0	
1978		0.1	268	<.1	320	0.0		0.0	
1979		<.1	260	<.1	280	0.0		0.0	
1980		0.2	277	<.1	316	0.0		0.0	
1981		0.2	271	<.1	340	<.1	324	<.1	263
1982		0.3	273	<.1	331	<.1	312	0.0	
1983		0.2	272	<.1	338	<.1	301	<.1	261

Table C.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	No./h	Length	No./h	Length
Sand searout	1975	<.1	319	<.1	302	0.0		<.1		<.1		<.1	307
	1976	0.1	298	<.1	296	<.1	272	<.1		<.1		<.1	285
	1977	<.1	355	<.1	295	<.1	336	<.1		<.1		<.1	317
	1978	0.0		0.0		0.0		<.1		<.1		<.1	303
	1979	0.0		0.0		<.1		<.1		<.1		<.1	261
	1980	<.1		<.1	322	<.1	304	<.1		<.1		<.1	302
	1981	<.1	281	<.1	223	<.1	260	<.1		<.1		<.1	322
	1982	<.1	319	<.1	266	<.1	302	<.1		<.1		<.1	280
	1983	<.1	319	<.1	285	<.1	294	<.1		<.1		<.1	289

Table C.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	ND		ND		ND		ND		ND		ND		ND		ND	
	1976	0.2	210	0.4	286	0.3	342	0.3	342	0.1	426	0.1	426	0.1	426	0.1	426
	1977	<.1	313	0.2	324	0.2	400	0.2	400	0.1	425	0.1	425	0.1	425	0.1	425
	1978	0.2	235	0.3	330	0.4	372	0.4	372	0.1	462	0.1	462	0.1	462	0.1	462
	1979	<.1	894	<.1	306	0.1	401	0.1	401	<.1	496	<.1	496	<.1	496	<.1	496
	1980	<.1	253	0.5	298	0.2	374	0.2	374	0.1	480	0.1	480	0.1	480	0.1	480
	1981	0.1	253	0.2	310	0.1	374	0.1	374	0.1	441	0.1	441	0.1	441	0.1	441
	1982	0.1	271	1.3	322	0.8	374	0.8	374	0.2	439	0.2	439	0.2	439	0.2	439
	1983	0.2	230	0.3	344	0.2	417	0.2	417	0.3	460	0.3	460	0.3	460	0.3	460
	Sheepshead	1975	ND		ND		ND		ND		ND		ND		ND		ND
1976		0.0		0.0		0.1	307	0.1	307	0.0	370	0.0	370	0.0	370	0.0	370
1977		0.0		0.1	261	0.2	304	0.2	304	0.1	362	0.1	362	0.1	362	0.1	362
1978		0.0		<.1	259	0.1	286	0.1	286	0.1	386	0.1	386	0.1	386	0.1	386
1979		<.1	350	<.1	377	0.2	340	0.2	340	<.1	360	<.1	360	<.1	360	<.1	360
1980		0.0		<.1	239	<.1	315	<.1	315	<.1	382	<.1	382	<.1	382	<.1	382
1981		0.0		0.1	224	0.1	292	0.1	292	0.1	368	0.1	368	0.1	368	0.1	368
1982		0.0		<.1	300	<.1	303	0.1	303	0.1	368	0.1	368	0.1	368	0.1	368
1983		0.0		0.1	277	0.2	350	0.2	350	0.2	375	0.2	375	0.2	375	0.2	375

Table C.2. (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
Southern flounder	1975	ND		ND		ND		ND		ND		ND	
	1976	<.1	328	0.3	275	0.4	330	0.1	366	0.1	366	0.1	366
	1977	<.1	207	0.1	317	0.1	337	0.1	404	0.1	404	0.1	404
	1978	<.1	290	<.1	372	<.1	368	<.1	530	<.1	530	<.1	530
	1979	<.1	323	<.1	271	<.1	369	<.1	427	<.1	427	<.1	427
	1980	<.1	250	0.1	341	0.1	368	0.1	385	0.1	385	0.1	385
	1981	<.1	348	<.1	296	<.1	367	<.1	399	<.1	399	<.1	399
	1982	0.0		0.1	298	0.1	247	0.1	399	0.1	399	0.1	399
	1983	<.1	237	0.1	326	0.1	362	0.1	391	0.1	391	0.1	391
	Atlantic croaker	1975	ND		ND		ND		ND		ND		ND
1976		0.1	254	0.0		0.0		0.0		0.0		0.0	
1977		0.1	275	0.0		0.0		0.0		0.0		0.0	
1978		0.1	248	0.0		0.0		0.0		0.0		0.0	
1979		0.2	244	<.1	335	0.0		0.0		0.0		0.0	
1980		0.1	270	<.1		0.0		0.0		0.0		0.0	
1981		0.2	253	0.0		0.0		0.0		0.0		0.0	
1982		0.4	256	0.0		0.0		0.0		0.0		0.0	
1983		0.4	258	<.1	276	0.0		0.0		0.0		0.0	

Table C.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 searout	1975	ND		ND		ND		ND		ND		ND	
	1976	0.2	302	<.1	261	0.0		0.0		0.1		0.1	302
	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		0.0		<.1	222	<.1		<.1	268
	1982	<.1	225	0.0		<.1		<.1	249	<.1		<.1	260
	1983	0.0		<.1	206	<.1		<.1	241	<.1		<.1	244

Table C.3. 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 1975-1983. 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		<.1	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	1.2	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	0.1	467	<.1	538	<.1	584	<.1	584	<.1	584	
	Spotted seatrout	1975	0.5	385	0.1	518	<.1	570	<.1	0.0	0.0	0.0	0.0	0.0
		1976	0.3	387	0.1	526	<.1	682	<.1	0.0	0.0	0.0	0.0	0.0
		1977	0.2	386	0.1	492	0.1	573	0.1	<.1	<.1	<.1	<.1	662
		1978	0.6	386	0.1	506	<.1	621	<.1	0.0	0.0	0.0	0.0	0.0
1979		0.4	396	0.1	490	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
1980		0.2	396	0.1	446	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
1981		0.2	402	0.1	503	<.1	536	<.1	<.1	<.1	<.1	<.1	483	
1982		0.2	397	0.1	494	<.1	521	<.1	<.1	<.1	<.1	<.1	452	
1983		0.2	410	0.1	501	<.1	598	<.1	<.1	<.1	<.1	<.1	505	

Table C.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
Black drum	1975	0.3	233	0.4	299	0.1	527	0.1	519	0.1	527	0.1	519
	1976	0.3	244	0.2	314	0.2	418	0.2	516	0.2	418	0.2	516
	1977	0.1	244	0.2	316	<.1	376	<.1	474	0.1	376	0.1	474
	1978	0.1	273	0.2	376	0.1	406	0.1	601	<.1	406	<.1	601
	1979	0.1	235	<.1	577	<.1	488	<.1	640	<.1	488	<.1	640
	1980	0.4	239	0.2	316	0.1	456	0.1	553	0.1	456	0.1	553
	1981	0.1	240	0.2	382	0.1	448	0.1	607	<.1	448	<.1	607
	1982	0.2	253	0.3	337	0.1	443	0.1	544	0.1	443	0.1	544
	1983	0.1	250	0.3	347	0.1	458	0.1	620	<.1	458	<.1	620
	Sheepshead	1975	0.0		<.1	230	<.1	345	<.1	320	0.0	345	0.0
1976		<.1	165	<.1	261	0.1	282	0.1	406	<.1	282	<.1	406
1977		0.0		<.1	262	<.1	318	<.1	407	<.1	318	<.1	407
1978		<.1	385	<.1	336	<.1	311	<.1	356	<.1	311	<.1	356
1979		<.1	268	<.1	273	0.1	329	0.1	356	<.1	329	<.1	356
1980		0.0		0.0	254	<.1	353	<.1	327	0.0	353	0.0	327
1981		<.1	235	<.1	285	0.1	289	0.1	354	0.1	289	0.1	354
1982		<.1	326	<.1	285	<.1	305	<.1	368	<.1	305	<.1	368
1983		<.1	369	<.1	292	<.1	346	<.1		<.1	346	<.1	

Table C.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
Southern flounder	1975	0.1	254	<.1	280	<.1	438	<.1	438	<.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	202	0.1	311	0.1	343	0.1	343	<.1	413	<.1	413
	1981	<.1	271	<.1	298	<.1	401	<.1	401	<.1	413	<.1	413
	1982	<.1	281	<.1	296	<.1	373	<.1	373	<.1	413	<.1	413
	1983	<.1	308	<.1	298	<.1	345	<.1	345	<.1	398	<.1	398
Atlantic croaker	1975	0.0		0.0		0.0		0.0		0.0		0.0	
	1976	0.3	262	<.1	308	<.1	308	0.0	308	0.0	0.0	0.0	0.0
	1977	0.2	259	<.1	347	<.1	347	0.0	347	0.0	0.0	0.0	0.0
	1978	0.2	255	0.0		0.0		0.0		0.0		0.0	
	1979	0.1	282	<.1	330	<.1	330	0.0	330	0.0	0.0	0.0	0.0
	1980	0.2	261	0.0		0.0		0.0		0.0		0.0	
	1981	0.1	267	<.1	335	<.1	335	0.0	335	0.0	0.0	0.0	0.0
	1982	0.1	267	<.1	357	<.1	357	0.0	357	0.0	0.0	0.0	0.0
	1983	0.2	263	0.0		0.0		0.0		0.0		0.0	

Table C.3. (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	0.0		<.1		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					
	1979	0.0		<.1	269	<.1	252	<.1	235				
	1980	<.1	220	0.0		0.0		0.0					
	1981	0.0		0.0		<.1	242	0.0					
	1982	<.1	258	<.1	239	<.1	245	<.1	259				
	1983	<.1	325	<.1	276	<.1	265	<.1	254				

Table C.4. 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 1975-1983. 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	320	0.1	408	<.1	360	<.1	310	<.1	<.1	310	
	1976	0.9	349	0.4	487	0.2	511	0.2	361	<.1	<.1	361	
	1977	0.6	335	0.1	383	0.1	524	0.1	602	<.1	<.1	602	
	1978	0.5	359	0.1	414	<.1	568	<.1	630	<.1	<.1	630	
	1979	1.3	343	0.3	409	0.2	492	0.2	588	0.1	0.1	588	
	1980	0.4	346	0.2	447	0.2	495	0.2	609	<.1	<.1	609	
	1981	0.5	343	0.1	436	<.1	524	<.1	577	<.1	<.1	577	
	1982	0.4	330	0.1	417	<.1	520	<.1	478	<.1	<.1	478	
	1983	0.4	354	0.1	490	<.1	555	<.1	631	<.1	<.1	631	
	Spotted seatrout	1975	0.9	378	0.1	471	0.0	456	0.0	397	0.0	0.0	397
		1976	0.5	398	0.2	500	<.1	456	<.1		<.1	<.1	
		1977	0.6	380	<.1	457	0.0		0.0		0.0	0.0	
		1978	0.4	369	0.1	481	0.0		0.0		0.0	0.0	
1979		0.2	397	0.1	542	0.0	445	0.0		0.0	0.0	422	
1980		0.2	409	0.1	487	<.1	477	<.1		<.1	<.1	509	
1981		0.2	398	0.1	494	<.1	549	<.1		<.1	<.1	459	
1982		0.3	409	0.1	502	<.1	434	<.1		<.1	<.1	527	
1983		0.4	406	0.1	508	<.1	461	<.1		<.1	<.1		

Table C.4. (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	0.2	227	0.3	350	0.1	387	0.0		0.1	387	0.0	
	1976	0.2	228	0.6	315	0.3	386	0.1		0.3	386	0.1	461
	1977	0.1	291	0.3	308	0.1	395	<.1		0.1	395	<.1	512
	1978	0.1	228	0.1	311	0.1	381	<.1		0.1	381	<.1	500
	1979	0.1	246	0.2	327	0.1	439	<.1		0.1	439	<.1	509
	1980	0.5	255	0.6	316	<.1	363	0.1		<.1	363	0.1	461
	1981	0.2	244	0.2	338	0.1	392	<.1		0.1	392	<.1	492
	1982	0.6	221	0.4	343	0.1	503	0.1		0.1	503	<.1	647
	1983	0.3	239	0.2	348	0.1	404	0.1		0.1	404	0.1	475
	Sheepshead	1975	<.1	210	0.1	217	0.1	298	0.1		0.1	298	0.1
1976		<.1	166	0.1	260	0.1	319	0.2		0.1	319	0.2	356
1977		0.0		<.1	225	<.1	391	<.1		<.1	391	<.1	260
1978		0.0		<.1	276	0.1	356	0.3		0.1	356	0.3	383
1979		<.1	205	<.1	270	0.2	359	0.2		0.2	359	0.2	380
1980		0.0		0.2	254	0.4	303	0.1		0.4	303	0.1	410
1981		<.1	340	0.1	294	0.1	331	0.1		0.1	331	0.1	371
1982		<.1	249	0.1	268	0.1	336	<.1		<.1	336	<.1	382
1983		<.1	308	0.1	256	<.1	372	<.1		<.1	372	<.1	422

Table C.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	<.1	205	<.1	265	0.0		0.0		0.0		0.0	
	1976	<.1	245	<.1	318	0.1	363	0.1	413	0.1	413	0.1	413
	1977	<.1	283	0.2	290	0.1	323	0.1	393	<.1	393	<.1	393
	1978	<.1	202	0.1	300	<.1	300	<.1	412	<.1	412	<.1	412
	1979	<.1	333	<.1	328	0.1	401	0.1	421	0.1	421	0.1	421
	1980	<.1	252	<.1	310	<.1	354	<.1	390	<.1	390	<.1	390
	1981	<.1	257	0.1	286	<.1	338	<.1	372	<.1	372	<.1	372
	1982	<.1	274	0.1	304	<.1	329	<.1	366	<.1	366	<.1	366
	1983	<.1	270	0.1	304	<.1	373	<.1	425	<.1	425	<.1	425
Atlantic croaker	1975	<.1	288	<.1	310	0.0		0.0		0.0		0.0	
	1976	0.3	263	0.1	352	<.1	363	<.1	0.0	<.1	0.0	0.0	0.0
	1977	0.1	261	<.1	343	0.0		0.0		0.0		0.0	
	1978	0.1	210	<.1	336	0.0		0.0		0.0		0.0	
	1979	0.2	263	<.1	348	0.0		0.0		0.0		0.0	
	1980	0.1	252	<.1	317	0.0		0.0		0.0		0.0	
	1981	0.2	260	<.1	312	0.0		0.0		0.0		0.0	
	1982	0.2	266	<.1	352	0.0		0.0		0.0		0.0	
	1983	0.4	272	0.1	350	0.0		0.0		0.0		0.0	

Table C.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
Sand seatrout	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	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	212	<.1	282	<.1	253	<.1	285	<.1	211	<.1	285
	1983	0.0		<.1	196	<.1		<.1		<.1		<.1	

Table C.5. 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 1975-1983. 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	1.0	335	0.1	384	<.1	575	0.0					
	1976	0.3	335	0.2	464	<.1	518	0.0					
	1977	0.5	346	0.1	445	<.1	495	<.1			659		
	1978	0.5	383	0.4	423	<.1	690	0.0					
	1979	0.6	345	0.1	415	0.1	550	<.1			357		
	1980	0.6	336	0.3	417	0.1	542	<.1			293		
	1981	0.5	348	0.1	446	0.1	526	<.1			600		
	1982	0.3	328	0.1	454	0.1	504	<.1			695		
	1983	0.2	360	0.1	449	<.1	523	<.1			643		
	Spotted seatrout	1975	0.3	410	0.4	521	0.0		0.0				
1976		0.1	358	0.1	496	<.1	553	0.0					
1977		<.1	356	0.1	528	<.1	528	0.0					
1978		<.1	396	<.1	462	<.1		0.0					
1979		<.1	421	<.1	487	<.1	628	0.0					
1980		0.1	393	0.1	470	<.1	494	0.0					
1981		0.1	405	0.1	493	<.1	548	<.1			511		
1982		0.1	408	0.1	505	<.1	544	<.1			534		
1983		0.1	418	0.1	514	<.1	547	<.1					

Table C.5. (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	236	0.4	342	0.1	379	0.0		0.1	342	0.1	379	0.0		0.1	379	
	1976	0.1	254	0.2	305	0.1	483	<.1		0.1	305	0.1	483	<.1		<.1	483	
	1977	0.1	244	0.2	310	0.1	400	<.1		0.1	310	0.1	400	<.1		<.1	400	
	1978	0.2	232	0.1	330	0.1	377	0.1		0.1	330	0.1	377	0.1		<.1	377	
	1979	0.1	241	0.1	310	0.1	435	0.1		0.1	310	0.1	435	0.1		0.1	435	
	1980	0.2	240	0.5	303	0.1	494	0.1		0.1	303	0.1	494	0.1		0.1	494	
	1981	0.1	256	0.2	329	0.1	393	0.1		0.1	329	0.1	393	0.1		0.1	393	
	1982	0.2	247	0.5	314	0.2	405	0.2		0.2	314	0.2	405	0.1		0.1	405	
	1983	0.2	248	0.2	330	0.2	396	0.2		0.2	330	0.2	396	0.1		0.1	396	
	Sheepshead	1975	0.0		0.8	266	0.9	320	0.2		0.8	266	0.9	320	0.2		0.2	320
		1976	<.1		0.5	233	0.3	271	0.1		0.5	233	0.3	271	0.1		0.1	271
		1977	0.0		0.2	234	0.2	268	0.1		0.2	234	0.2	268	0.1		0.1	268
		1978	0.0		0.3	268	0.2	322	0.1		0.3	268	0.2	322	0.1		0.1	322
1979		0.0		0.1	282	0.4	309	0.2		0.1	282	0.4	309	0.2		0.2	309	
1980		<.1	360	0.1	246	0.2	293	0.2		0.1	246	0.2	293	0.2		0.2	293	
1981		<.1	262	<.1	288	0.1	315	0.1		<.1	288	0.1	315	0.1		0.1	315	
1982		<.1	171	0.1	284	0.1	333	0.1		0.1	284	0.1	333	0.1		0.1	333	
1983		<.1	326	<.1	281	<.1	351	<.1		<.1	281	<.1	351	0.1		0.1	351	

Table C.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
Southern flounder	1975	0.0		<.1	280	0.1	280	0.0	
	1976	<.1	268	0.1	304	<.1	341	0.0	
	1977	<.1	250	<.1	311	<.1	355	0.1	397
	1978	<.1	215	0.0		0.1	375	<.1	397
	1979	<.1	281	<.1	336	<.1	380	<.1	353
	1980	<.1	228	<.1	336	<.1		0.1	453
	1981	<.1	291	<.1	321	<.1	399	<.1	398
	1982	<.1	347	<.1	303	<.1	364	<.1	431
	1983	<.1	316	<.1	318	<.1	325	<.1	401
Atlantic croaker	1975	0.1	280	0.2	358	0.0		0.0	
	1976	0.2	291	0.1	368	0.0		0.0	
	1977	0.4	266	0.5	336	<.1	377	0.0	
	1978	0.4	285	0.2	57	0.0		0.0	
	1979	0.1	274	0.1	337	<.1	382	0.0	
	1980	0.1	269	0.1	347	<.1	355	<.1	
	1981	0.3	285	0.2	350	0.1	379	<.1	364
	1982	0.1	295	0.2	343	<.1	381	<.1	338
	1983	0.2	283	0.1	342	<.1	334	0.0	

Table C.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 searout	1975	0.0		<.1	290	0.0		0.0		<.1		0.0	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	<.1	297	0.0	
	1982	0.0		0.0		0.0		<.1	297	<.1	324	0.0	
	1983	0.0		<.1	263	<.1		<.1		<.1		0.0	

Table C.6. 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 1975-1983. 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	0.3	328	0.1	344	<.1	370	<.1		<.1		290	
	1976	0.2	357	0.1	486	0.2	544	0.2		<.1		638	
	1977	0.2	328	0.2	455	0.1	561	0.1		0.1		546	
	1978	0.2	346	0.1	427	0.1	590	0.1		<.1		600	
	1979	0.6	328	0.1	398	<.1	587	<.1		<.1		673	
	1980	0.6	327	0.1	480	<.1	554	<.1		<.1		540	
	1981	0.3	337	0.1	432	0.1	508	0.1		<.1		494	
	1982	0.1	330	<.1	454	0.1	544	0.1		<.1		678	
	1983	0.1	348	0.1	456	0.1	549	0.1		<.1		529	
	Spotted seatrout	1975	0.2	388	0.2	497	0.1	606	0.1		<.1		680
		1976	0.4	367	0.1	443	<.1	418	<.1		<.1		645
		1977	0.2	403	0.1	516	<.1	657	<.1		<.1		655
		1978	0.1	385	<.1	533	0.0		0.0		0.0		
1979		0.2	381	<.1	508	<.1	592	<.1		<.1		431	
1980		0.2	373	0.1	535	<.1	624	<.1		<.1		577	
1981		0.3	402	0.1	474	<.1	577	<.1		<.1		589	
1982		0.1	396	0.1	535	<.1	584	<.1		<.1		577	
1983		0.2	399	0.1	487	<.1	600	<.1		<.1		467	

Table C.6. (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	232	0.1	311	0.2	387	0.1	445	<.1	311	0.2	387	0.1	445
	1976	<.1	220	0.1	329	0.2	374	<.1	488	<.1	329	0.2	374	<.1	488
	1977	<.1		0.1	317	0.1	398	0.1	479	0.1	317	0.1	398	0.1	479
	1978	<.1	358	0.1	343	<.1	386	<.1	427	<.1	343	<.1	386	<.1	427
	1979	0.1	222	0.1	308	0.1	393	<.1	504	<.1	308	0.1	393	<.1	504
	1980	0.1	243	0.1	337	0.3	383	0.1	438	0.1	243	0.3	383	0.1	438
	1981	0.1	241	0.2	321	0.1	391	0.1	473	0.1	241	0.1	391	0.1	473
	1982	<.1	243	0.3	337	0.2	399	0.2	470	0.1	<.1	0.2	399	0.1	470
	1983	<.1	323	0.2	337	0.3	415	0.3	481	0.2	<.1	0.3	415	0.2	481
	Sheepshead	1975	0.0		0.0		<.1	390	0.1	373	0.0		<.1	390	0.1
1976		0.0		0.0		<.1	306	<.1	371	0.0		<.1	306	<.1	371
1977		0.0		<.1	310	0.2	344	<.1	323	0.0		0.2	344	<.1	323
1978		<.1	274	0.0		0.1	360	<.1	376	<.1	274	0.1	360	<.1	376
1979		0.0		<.1	284	0.1	327	0.1	368	0.0		0.1	327	0.1	368
1980		<.1	288	<.1	320	0.1	364	0.1	390	<.1	288	0.1	364	0.1	390
1981		<.1	324	<.1	299	0.1	326	0.1	390	<.1	324	0.1	326	<.1	390
1982		0.0		<.1	328	0.1	345	0.1	394	0.0		0.1	345	<.1	394
1983		<.1	406	<.1	341	<.1	357	<.1	380	<.1	406	<.1	357	<.1	380

Table C.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	<.1	485	0.1	271	<.1	445	<.1	430	<.1	445	<.1	430
	1976	<.1	344	<.1	316	0.1	348	0.1	383	0.1	348	0.1	383
	1977	0.0		<.1	245	<.1	314	<.1	428	<.1	314	<.1	428
	1978	<.1	306	<.1	336	0.1	372	0.1	398	0.1	372	0.1	398
	1979	<.1	294	<.1	307	<.1	377	<.1	427	<.1	377	<.1	427
	1980	<.1	234	0.1	353	<.1	345	<.1	480	<.1	345	<.1	480
	1981	<.1	295	<.1	333	<.1	356	<.1	384	<.1	356	<.1	384
	1982	<.1	253	<.1	311	<.1	381	<.1	438	<.1	381	<.1	438
	1983	<.1	328	<.1	315	<.1	361	<.1	420	<.1	361	<.1	420
	Atlantic croaker	1975	0.1	269	0.3	335	<.1	285	<.1	280	<.1	285	0.0
1976		0.2	273	0.3	344	0.1	349	0.1		0.1	349	<.1	
1977		0.1	287	0.6	354	0.1	377	0.1		0.0	377	0.0	
1978		0.4	284	0.1	342	<.1	283	<.1		0.0	283	0.0	
1979		0.1	268	0.4	347	<.1	384	<.1		0.0	384	0.0	
1980		0.6	281	1.0	341	<.1	299	<.1		0.0	299	0.0	
1981		0.4	279	0.3	345	<.1	388	<.1		<.1	388	<.1	348
1982		0.5	293	0.5	350	0.1	382	0.1		<.1	382	<.1	311
1983		0.4	296	0.5	342	<.1	346	<.1		<.1	346	<.1	314

Table C.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
Sand searout	1975	<.1	360	<.1	280	0.0		0.0		<.1		225	
	1976	<.1	345	0.1	296	0.1	307	0.1		0.1		304	
	1977	0.0		0.0		0.0		0.0		0.0			
	1978	0.0		0.0		0.0		0.0		0.0			
	1979	<.1	313	<.1	275	0.0		0.0		0.0			
	1980	0.0		0.0		0.0		0.0		0.0			
	1981	<.1	318	<.1	231	<.1	250	<.1		0.0		315	
	1982	<.1	302	<.1	324	<.1	271	<.1		<.1		300	
	1983	0.0		<.1	252	<.1	277	<.1		<.1			

Table C.7. 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 1975-1983. 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	590	0.1	525
	1976	<.1	328	0.1	385	0.2	559	<.1	569
	1977	0.2	353	0.1	409	0.0		0.0	
	1978	0.2	382	<.1	549	<.1	472	<.1	634
	1979	0.4	351	0.1	450	<.1	518	<.1	610
	1980	0.1	316	0.3	489	0.1	493	<.1	493
	1981	0.1	381	0.1	467	0.1	562	0.1	617
	1982	0.1	336	<.1	476	0.1	562	<.1	648
	1983	0.1	352	<.1	483	0.1	560	<.1	587
Spotted seatrout	1975	0.2	423	<.1	543	<.1	620	0.0	
	1976	0.1	402	<.1	488	<.1	668	0.0	
	1977	0.5	374	0.2	486	<.1	612	<.1	588
	1978	0.4	403	0.1	508	0.0		<.1	670
	1979	0.1	408	<.1	522	<.1	549	0.0	
	1980	0.1	407	<.1	465	<.1	532	0.0	
	1981	0.1	403	0.1	511	<.1	577	<.1	518
	1982	0.3	396	0.1	529	<.1	510	<.1	478
	1983	0.2	409	0.1	502	<.1	630	<.1	687

Table C.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
Black drum	1975	0.1	244	0.1	338	0.5	443	0.5	456				
	1976	<.1	230	0.1	476	0.4	471	0.6	535				
	1977	<.1	210	0.2	327	0.4	423	0.3	469				
	1978	<.1	414	0.1	430	0.6	408	0.2	460				
	1979	<.1	232	0.2	394	0.1	363	0.1	474				
	1980	0.1	254	0.1	347	0.3	391	0.1	473				
	1981	0.1	225	<.1	362	0.2	414	0.2	466				
	1982	<.1	263	0.2	347	0.5	385	0.1	489				
	1983	<.1	254	0.1	368	0.1	412	0.2	471				
	Sheepshead	1975	0.0		<.1	412	0.1	378	0.2	420			
1976		0.0		0.0		<.1	364	0.2	379				
1977		0.0		<.1		0.1	361	0.1	448				
1978		0.0		0.0		0.1	342	0.1	399				
1979		0.0		<.1	358	<.1	368	0.1	416				
1980		0.0		<.1	346	0.1	361	0.1	422				
1981		<.1	390	<.1	320	<.1	379	0.1	392				
1982		0.0		<.1	356	0.1	358	0.1	397				
1983		0.0		<.1	374	0.1	380	0.1	406				

Table C.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
Southern flounder	1975	<.1	223	0.0		<.1	510	0.1	489				
	1976	<.1	231	<.1	295	<.1	330	<.1	448				
	1977	0.0		0.0		<.1	491	0.0					
	1978	0.0		<.1	325	<.1	330	<.1	417				
	1979	<.1	209	0.0		<.1	386	<.1	458				
	1980	<.1	190	0.0		<.1	344	<.1	441				
	1981	<.1	249	<.1	346	<.1	416	<.1	451				
	1982	<.1	270	<.1	305	<.1	378	<.1	429				
	1983	<.1	315	<.1	296	<.1	355	<.1	444				
	Atlantic croaker	1975	0.1	272	<.1	342	<.1	420	0.0				
1976		<.1	265	0.3	351	0.1	364	0.0					
1977		0.1	272	0.7	351	0.1	412	0.0					
1978		0.3	265	0.1	336	0.0		0.0					
1979		<.1	271	<.1	361	0.0		0.0					
1980		0.1	266	<.1	350	<.1	270	0.0					
1981		0.1	260	0.1	346	<.1	382	<.1	454				
1982		0.1	299	0.3	358	<.1	384	<.1	395				
1983		<.1	270	<.1	348	<.1	480	0.0					

Table C.8. 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 1975-1983. 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	0.2	364	0.3	433	0.2	532	0.1	666					
	1976	0.3	352	0.4	418	0.3	551	0.2	653					
	1977	0.2	353	0.2	470	0.1	483	<.1	701					
	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	450	0.1	551	<.1	606					
	1983	0.1	345	0.1	474	0.3	564	0.1	599					
	Spotted seatrout	1975	0.5	374	0.1	491	0.1	489	<.1	602				
		1976	1.6	374	0.7	471	0.2	618	0.1	663				
		1977	0.6	421	0.1	512	0.1	620	0.1	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	0.1	585						

Table C.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	No./h	Length	No./h	Length
Black drum	1975	<.1	218	0.2	371	0.2	394	0.6	508				
	1976	0.1	328	0.2	346	1.0	399	1.0	474				
	1977	0.2	243	0.3	361	1.0	406	1.3	481				
	1978	<.1	214	0.1	333	0.2	382	0.1	461				
	1979	<.1	243	0.1	378	0.2	417	0.2	487				
	1980	<.1	236	0.4	346	0.4	405	0.2	496				
	1981	0.1	248	0.1	365	0.3	401	0.2	462				
	1982	0.1	267	0.8	337	0.7	403	0.3	497				
	1983	0.1	288	0.2	365	0.3	432	0.3	479				
Sheepshead	1975	0.0		0.0		<.1	330	0.1	365				
	1976	0.0		<.1	302	0.1	325	0.1	364				
	1977	0.0		<.1	256	0.2	333	0.2	380				
	1978	<.1	162	<.1	276	<.1	306	<.1	349				
	1979	0.0		<.1	280	<.1	361	0.1	373				
	1980	<.1	248	0.1	262	0.2	327	0.1	368				
	1981	<.1	205	0.1	297	0.1	327	0.1	361				
	1982	<.1	266	0.1	289	0.1	333	0.1	357				
	1983	<.1	225	<.1	313	0.2	333	0.1	368				

Table C.8. (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
Southern flounder	1975	<.1	205	<.1	278	0.1	355	<.1	355	<.1	462	<.1	462
	1976	0.0		<.1	362	<.1	393	<.1	393	<.1	419	<.1	419
	1977	0.0		0.0		<.1	330	<.1	330	<.1		<.1	
	1978	0.0		<.1	281	<.1	352	<.1	352	0.0		0.0	
	1979	<.1	370	<.1	279	<.1	361	<.1	361	0.1	421	0.1	421
	1980	<.1	224	<.1	628	0.1	374	<.1	374	<.1	446	<.1	446
	1981	<.1	305	<.1	338	<.1	397	<.1	397	<.1	410	<.1	410
	1982	<.1	283	0.1	316	0.1	374	<.1	374	<.1	435	<.1	435
	1983	<.1	363	<.1	356	<.1	377	<.1	377	<.1	424	<.1	424
Atlantic croaker	1975	<.1	312	0.1	351	0.0	377	0.0	377	0.0		0.0	
	1976	0.1	283	0.2	345	<.1		<.1		0.0		0.0	
	1977	0.1	295	0.1	355	0.0		0.0		<.1	371	<.1	371
	1978	<.1	240	<.1	377	0.0		0.0		0.0		0.0	
	1979	<.1	273	0.1	342	<.1	422	<.1	422	0.0		0.0	
	1980	0.2	273	<.1	366	<.1	406	<.1	406	0.0		0.0	
	1981	0.3	298	0.1	347	<.1	375	<.1	375	<.1	276	<.1	276
	1982	0.1	292	0.1	351	<.1	393	<.1	393	0.0		0.0	
	1983	0.3	284	0.2	348	<.1	419	<.1	419	0.0		0.0	

Table C.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
Sand seatrout	1975	0.0		0.0		0.0		0.0	
	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	325
	1981	<.1	341	<.1	292	<.1	300	<.1	300
	1982	<.1	307	<.1	306	<.1	306	0.0	306
	1983	<.1	325	<.1	237	<.1	361	<.1	293

Table C.9. 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 1976-1984. 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	<.1	310	0.0		0.0		0.0		0.0		0.0	
	1977	0.1	401	0.1	451	0.1	556	0.0		0.0		0.0	
	1978	<.1	246	0.1	468	0.0			0.0		0.0		
	1979	0.1	345	0.1	479	0.1	548	<.1	693	<.1		<.1	
	1980	0.1	445	0.7	446	<.1	518	0.0		0.0		0.0	
	1981	0.2	386	0.1	451	<.1	518	<.1		<.1		<.1	611
	1982	0.3	434	0.4	459	0.1	537	0.1		0.1		0.1	605
	1983	0.3	423	0.4	461	0.1	547	0.1		0.1		<.1	624
	1984	0.3	428	0.4	462	0.2	559	0.2		0.2		0.1	606
	Spotted seatrout	1976	0.0		0.1	530	0.0		0.0		0.0		0.0
1977		<.1	352	0.1	515	<.1	576	<.1	727	<.1		<.1	
1978		<.1	431	0.1	451	0.1	616	0.1		0.1		<.1	674
1979		0.1	379	0.1	475	0.1	653	0.1		0.1		<.1	639
1980		0.1	420	0.1	408	0.0		0.0		0.0		0.0	
1981		0.2	435	0.1	537	<.1	596	<.1		<.1		0.0	
1982		0.2	415	0.2	512	0.1	605	0.1		0.1		<.1	542
1983		0.2	433	0.1	532	0.1	621	0.1		0.1		<.1	674
1984		0.1	418	0.1	534	0.1	587	0.1		0.1		<.1	560

Table C.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	1976	0.1	250	0.0		<.1	370	0.0		<.1	370	0.0	
	1977	0.1	223	<.1	571	0.2	397	0.1		0.2	397	0.1	522
	1978	0.1	371	<.1	473	0.1	461	0.1		0.1	461	0.1	461
	1979	0.2	239	<.1	265	<.1	385	0.1		<.1	385	0.1	458
	1980	0.2	225	<.1	430	0.1	370	<.1		0.1	370	<.1	415
	1981	0.2	244	0.1	329	0.4	512	<.1		0.4	512	<.1	445
	1982	0.2	240	0.1	393	0.1	403	0.1		0.1	403	0.1	479
	1983	0.2	239	0.3	324	0.2	379	0.1		0.2	379	0.1	459
	1984	0.1	256	0.2	344	0.3	379	0.1		0.3	379	0.1	451
	Sheepshead	1976	0.0		0.0		0.0		0.0		0.0		0.0
1977		<.1	197	0.0		0.0		0.0		0.0		<.1	480
1978		0.0		0.0		0.0		0.0		0.0		0.0	
1979		0.0		<.1	250	0.0		0.0		0.0		<.1	360
1980		0.0		0.0		<.1	324	<.1		<.1	324	<.1	410
1981		0.0		<.1	377	<.1	380	<.1		<.1	380	<.1	422
1982		0.0		<.1	292	<.1	314	<.1		<.1	314	<.1	355
1983		0.0		<.1	292	<.1	302	<.1		<.1	302	<.1	364
1984		<.1	457	<.1	327	<.1	328	<.1		<.1	328	<.1	385

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

Species	Year	Mesh size							
		7.6-cm		10.2-cm		12.7-cm		15.2-cm	
		No./h	Length	No./h	Length	No./h	Length	No./h	Length
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		<.1	351	0.0	
	1978	<.1	205	<.1	293	0.0		0.0	
	1979	0.0		0.0		0.0		<.1	451
	1980	<.1	218	<.1	312	<.1	392	<.1	484
	1981	<.1	244	0.0		0.0		0.0	
	1982	<.1	371	<.1	315	<.1	340	<.1	388
	1983	<.1	356	<.1	316	<.1	363	<.1	418
	1984	<.1	358	<.1	298	<.1	348	<.1	371
	Atlantic croaker	1976	0.1	247	0.1	375	0.0		0.0
1977		0.3	262	<.1	297	<.1	276	0.0	
1978		0.1	252	0.0		0.0		0.0	
1979		0.2	265	0.0		<.1	164	0.0	
1980		0.1	268	0.0		0.0		0.0	246
1981		0.1	262	0.0		0.0		<.1	
1982		0.2	267	<.1	258	0.0		0.0	
1983		0.2	269	<.1	288	<.1	238	<.1	305
1984		0.1	264	<.1	256	<.1	291	<.1	231

Table C.10. 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 1976-1984. Blank indicates no measurement taken; ND = no data.

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
Red drum	1976	ND		ND		ND		ND		ND		ND	
	1977	0.1	374	0.1	462	0.0		0.0		0.0		0.0	
	1978	0.2	400	0.1	455	<.1	414	<.1		<.1		<.1	536
	1979	0.1	428	<.1	406	0.0		0.0		<.1		<.1	655
	1980	0.1	418	0.2	436	0.1	392	0.1		0.1		0.1	634
	1981	0.1	422	0.2	479	0.0		0.0		0.0		0.0	
	1982	0.1	420	0.3	433	0.0		0.0		<.1		<.1	687
	1983	0.5	395	0.2	444	0.2	568	0.2		0.2		0.2	624
	1984	0.3	407	0.2	461	0.1	516	0.1		0.0		0.0	
	Spotted seatrout	1976	ND		ND		ND		ND		ND		ND
1977		1.3	394	0.5	491	0.1	576	0.1		0.1		<.1	695
1978		0.3	414	0.1	474	<.1	632	<.1		<.1		0.0	
1979		0.3	386	0.2	479	<.1	628	<.1		<.1		<.1	375
1980		0.6	377	0.1	506	<.1	488	<.1		<.1		<.1	470
1981		1.4	395	0.4	489	<.1	494	<.1		<.1		<.1	
1982		0.6	414	0.3	509	0.1	544	0.1		0.1		0.0	
1983		1.4	425	0.2	520	<.1	553	<.1		<.1		0.0	
1984		0.4	427	0.2	531	<.1	601	<.1		<.1		<.1	488

Table C.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	No./h	Length	No./h	Length
Black drum	1976	ND		ND		ND		ND		ND		ND	
	1977	0.2	217	0.1	296	<.1	376	<.1	376	0.0		0.0	
	1978	0.1	315	0.1	297	0.1	372	0.1	372	0.1		0.1	457
	1979	0.1	246	0.4	302	0.1	369	0.1	369	0.1		0.1	428
	1980	0.7	231	0.2	310	0.1	406	0.1	406	<.1		<.1	485
	1981	0.3	242	0.3	308	0.2	417	0.2	417	<.1		<.1	450
	1982	0.3	232	0.3	291	0.1	401	0.1	401	0.1		0.1	459
	1983	0.2	240	1.0	338	1.0	384	1.0	384	0.5		0.5	443
	1984	<.1	216	0.3	346	0.4	395	0.4	395	0.2		0.2	479
	Sheepshead	1976	ND		ND		ND		ND		ND		ND
1977		0.0		0.0		<.1	234	<.1	234	0.0		0.0	
1978		0.0		0.1	291	0.3	295	0.3	295	<.1		<.1	341
1979		0.0		0.0		0.1	297	0.1	297	<.1		<.1	297
1980		0.0		<.1	239	0.2	342	0.2	342	0.1		0.1	375
1981		0.0		0.1	235	<.1	347	<.1	347	0.1		0.1	400
1982		0.0		0.0		0.0		0.0		0.0		0.0	
1983		0.0		0.1	305	0.2	307	0.2	307	0.1		0.1	331
1984		0.0		<.1	270	0.2	332	0.2	332	0.1		0.1	395

Table C.11. 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 1976-1984. 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	0.2	396	0.2	428	<.1	600	<.1		<.1		390	
	1977	<.1	423	0.1	476	0.0		0.0		0.0			
	1978	0.1	418	0.2	442	0.1	550	0.1		0.1		589	
	1979	0.1	404	<.1	434	<.1	360	<.1		<.1		457	
	1980	0.8	378	0.2	402	0.1	431	0.1		0.0			
	1981	0.2	407	<.1	422	0.0		0.0		0.0			
	1982	0.3	406	0.2	423	<.1	565	<.1		<.1		604	
	1983	0.5	387	0.1	435	<.1	514	<.1		<.1		582	
	1984	0.1	409	<.1	452	<.1	565	<.1		<.1		568	
	Spotted seatrout	1976	0.1	422	0.0		0.0		0.0		0.0		
		1977	0.2	380	0.0		0.0		0.0		0.0		
		1978	0.4	373	0.2	494	0.0		0.0		0.0		
		1979	0.1	420	0.1	531	<.1	631	<.1		0.0		
1980		0.4	384	0.2	495	<.1	531	<.1		0.0			
1981		0.3	387	<.1	524	0.0		0.0		0.0			
1982		0.2	403	0.2	486	0.1	571	0.1		<.1		527	
1983		0.4	413	0.2	499	<.1	571	<.1		<.1		522	
1984		0.2	405	0.1	509	<.1	471	<.1		<.1		460	

Table C.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									
Black drum	1976	<.1	218	<.1	270	0.0	270	0.0	663	0.3	468	<.1	218	<.1	270	0.0	270	0.0	663	0.3	468	
	1977	0.1	241	0.1	533	0.2	533	0.2	388	0.1	521	<.1	241	0.1	533	0.2	533	0.2	388	0.1	521	
	1978	0.1	220	0.1	298	<.1	298	<.1	647	<.1	498	<.1	220	0.1	298	<.1	298	<.1	647	<.1	498	
	1979	0.2	236	0.2	390	0.1	390	0.1	611	<.1	459	<.1	236	0.2	390	0.1	390	0.1	611	<.1	459	
	1980	0.4	270	0.2	328	0.1	328	0.1	673	<.1	780	<.1	270	0.2	328	0.1	328	0.1	673	<.1	780	
	1981	0.2	227	0.1	301	<.1	301	<.1	431	0.1	640	<.1	227	0.1	301	<.1	301	<.1	431	0.1	640	
	1982	0.2	262	0.1	348	0.1	348	0.1	426	0.1	504	0.1	262	0.1	348	0.1	348	0.1	426	0.1	504	
	1983	0.1	248	0.3	331	0.1	331	0.1	482	0.1	529	0.1	248	0.1	331	0.1	331	0.1	482	0.1	529	
	1984	<.1	236	<.1	329	0.1	329	0.1	482	0.1	482	<.1	236	<.1	329	0.1	329	0.1	482	0.1	482	
	Sheepshead	1976	0.0		0.0		0.0		292	<.1	420	<.1		0.0		0.0		292	<.1	420	<.1	420
		1977	0.0		<.1	242	<.1	242	<.1	329	<.1	329	<.1		<.1	242	<.1	242	<.1	329	<.1	329
		1978	0.0		<.1	278	0.0	278	0.0	362	0.0	420	0.0		<.1	278	0.0	278	0.0	362	0.0	420
		1979	0.0		0.0		<.1		348	<.1	389	<.1		0.0		<.1		348	<.1	348	<.1	389
		1980	0.0		<.1	242	0.1	242	0.1	314	<.1	381	<.1		<.1	242	0.1	242	0.1	314	<.1	381
1981		<.1	370	<.1	536	0.0	536	0.0	359	0.0	419	0.0	370	<.1	536	0.0	536	0.0	359	0.0	419	
1982		0.0	221	<.1	276	<.1	276	<.1	419	<.1	381	<.1	221	0.0	276	<.1	276	<.1	419	<.1	381	
1983		<.1	403	<.1	345	0.1	345	0.1	419	0.1	398	<.1	403	<.1	345	0.1	345	0.1	419	<.1	398	
1984		0.0		<.1	286	<.1	286	<.1	419	<.1	419	<.1		0.0	286	<.1	286	<.1	419	<.1	419	

Table C.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
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		<.1	265	<.1		<.1	391
	1978	0.0		0.0		<.1		<.1	346
	1979	0.0		<.1	294	<.1		<.1	
	1980	0.0		<.1	276	<.1		<.1	339
	1981	0.0		<.1	270	0.0		0.0	
	1982	<.1	310	<.1	291	<.1		<.1	316
	1983	<.1	312	<.1	295	<.1		<.1	376
	1984	<.1	286	<.1	310	<.1		<.1	315
Atlantic croaker	1976	0.0		0.0		0.0		<.1	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	293	0.0		0.0		0.0	
	1979	<.1	264	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	254	<.1	140	0.0		0.0	

Table C.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
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		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		<.1	270
	1982	0.0		0.0		0.0		0.0		0.0		<.1	171
	1983	0.0		0.0		0.0	272	0.0		0.0		0.0	
1984	0.0		0.0		0.0	180	0.0		0.0		0.0		

Table C.12. 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 1976-1984. 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	0.7	414	0.3	400	0.0		0.0		0.0		0.0	
	1977	0.2	367	0.1	422	0.0		0.0		0.0		0.0	
	1978	0.1	395	<.1	428	0.0		0.0		0.0		0.0	
	1979	0.1	397	0.1	465	<.1	449	<.1	449	0.0		0.0	
	1980	0.4	384	0.3	422	<.1	448	<.1	448	0.0		0.0	
	1981	0.5	383	<.1	407	<.1	519	<.1	519	0.0		0.0	
	1982	0.2	391	0.1	431	<.1	457	<.1	457	<.1	615	<.1	615
	1983	0.6	366	0.1	427	<.1	566	<.1	566	<.1	650	<.1	650
	1984	<.1	439	0.1	516	<.1	547	<.1	547	<.1	503	<.1	503
	Spotted seatrout	1976	0.1		0.3	382	0.1		0.1		0.0		0.0
1977		0.8	382	0.1	431	<.1	670	<.1	670	0.0		0.0	
1978		1.1	391	0.2	484	<.1	473	<.1	473	0.0		0.0	
1979		0.1	443	0.0		0.0		0.0		0.0		0.0	
1980		0.7	377	0.2	501	<.1	365	<.1	365	<.1	612	<.1	612
1981		0.3	390	0.2	528	0.1	507	0.1	507	<.1	404	<.1	404
1982		0.6	400	0.2	508	<.1	551	<.1	551	<.1	384	<.1	384
1983		0.6	408	0.2	506	<.1	549	<.1	549	<.1	444	<.1	444
1984		0.1	431	0.1	530	<.1	575	<.1	575	<.1	484	<.1	484

Table C.12. (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	0.8	300	0.2	335	0.0		0.0		0.0		0.0		0.0	
	1977	0.2	238	0.6	306	0.1		0.1		0.1		0.1		0.0	
	1978	<.1	273	<.1	292	0.0		0.0		0.0		<.1		<.1	496
	1979	<.1	307	0.0		<.1		<.1		<.1		<.1		<.1	578
	1980	0.3	236	0.1	299	0.1		0.1		0.1		0.1		0.1	470
	1981	<.1	251	0.2	314	0.1		0.1		0.1		0.1		0.1	497
	1982	0.3	240	0.2	334	0.1		0.1		0.1		0.1		0.1	495
	1983	0.2	248	0.3	345	0.1		0.1		0.1		0.1		0.1	464
	1984	<.1	252	0.1	424	0.1		0.1		0.1		0.1		0.1	530
	Sheepshead	1976	0.2	302	0.0		0.2		0.2		0.2		0.0		0.0
1977		0.0		0.0		0.1		0.1		0.1		0.1		<.1	386
1978		0.0		<.1	280	<.1		<.1		<.1		<.1		<.1	323
1979		0.0		0.0		0.0		<.1		<.1		0.0		0.0	
1980		<.1	234	<.1	253	<.1		<.1		<.1		<.1		<.1	448
1981		0.0		0.1	246	0.1		0.3		0.3		0.2		0.2	394
1982		<.1	295	<.1	295	<.1		<.1		<.1		0.1		0.1	395
1983		<.1	312	<.1	329	<.1		0.1		0.1		<.1		<.1	414
1984		<.1	417	<.1	389	<.1		0.1		0.1		0.1		0.1	409

Table C.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		
Southern flounder	1976	0.0		0.1	335			0.0				0.0	
	1977	<.1	208	0.0				0.0				0.0	
	1978	<.1	236	<.1	303			<.1	311			0.0	
	1979	<.1	350	<.1				<.1	374			<.1	422
	1980	<.1	325	<.1	310			<.1	324			0.0	
	1981	<.1	281	<.1	322			0.0				0.0	
	1982	<.1	225	<.1	276			<.1	339			<.1	369
	1983	<.1	386	<.1	305			<.1	344			<.1	386
	1984	<.1	279	<.1	310			<.1	342			<.1	304
	Atlantic croaker	1976	0.2		0.0				0.0				0.0
1977		<.1	238	0.0				0.0				0.0	
1978		<.1	250	0.0				0.0				0.0	
1979		0.0		0.0				0.0				0.0	
1980		<.1	235	0.0				0.0				0.0	
1981		0.0		0.0				0.0				0.0	
1982		<.1	268	<.1	285			0.0				0.0	
1983		<.1	268	0.0				0.0				0.0	
1984	<.1	282	0.0				0.0				0.0		

Table C.12. (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	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		<.1		209		0.0		0.0	
	1980	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1981	<.1		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	
	1983	0.0		0.0		0.0		0.0		0.0		0.0		0.0	
	1984	0.0		0.0		<.1		236		0.0		0.0		0.0	

Table C.13. 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 1976-1984. 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	0.2	394	0.6	458	0.1	600	0.1	600	0.1	362		
	1977	0.3	363	0.1	480	0.1	475	0.1	475	0.0			
	1978	<.1	403	<.1		0.1	468	0.1	468	0.0			
	1979	0.3	402	0.1	464	<.1	505	<.1	505	<.1	443		
	1980	0.3	353	<.1	413	<.1	443	<.1	443	<.1	394		
	1981	0.3	369	<.1	471	0.1	488	0.1	488	<.1	458		
	1982	0.3	400	0.1	453	<.1	522	<.1	522	<.1	631		
	1983	0.4	371	0.1	415	<.1	430	<.1	430	<.1	517		
	1984	0.2	414	0.1	421	<.1	512	<.1	512	<.1	435		
	Spotted seatrout	1976	1.8	410	0.7	527	0.4	585	0.4	585	0.4	480	
1977		0.8	372	0.1	506	0.1	615	0.1	615	0.0			
1978		0.1	381	<.1	502	<.1		<.1		0.0			
1979		0.2	445	0.2	543	<.1	578	<.1	578	<.1	606		
1980		0.1	399	0.1	517	<.1	600	<.1	600	0.0			
1981		0.5	414	0.2	533	0.1	619	0.1	619	<.1	690		
1982		0.5	400	0.2	494	0.1	535	0.1	535	<.1	456		
1983		0.4	410	0.2	516	<.1	546	<.1	546	<.1	401		
1984		0.2	407	0.1	490	<.1	443	<.1	443	0.0			

Table C.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
Black drum	1976	0.0		0.1	320	0.6	388	0.2	428				
	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	228	0.1	310	0.2	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	671	0.1	541	<.1	480	<.1	573				
	Sheepshead	1976	0.0		0.0		0.1	281	0.5	352			
1977		0.0		<.1	230	<.1	235	0.0					
1978		0.0		0.1	264	<.1	343	0.1	448				
1979		0.0		<.1		0.1	317	0.1	323				
1980		<.1	265	<.1	249	<.1	374	0.1	377				
1981		<.1	224	0.1	324	0.1	305	0.1	399				
1982		<.1	182	<.1	301	<.1	337	<.1	362				
1983		<.1	406	<.1	296	<.1	340	<.1	386				
1984		0.0		<.1	401	<.1	404	<.1	398				

Table C.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
Southern flounder	1976	0.0		0.0		0.0		0.0		0.0		0.0	
	1977	0.0		<.1	282	0.1		0.1		0.0		0.0	
	1978	0.0		<.1	338	0.0		0.0		0.0		0.0	
	1979	0.0		<.1	281	0.0		0.0		0.0		0.0	
	1980	<.1	263	<.1	307	<.1		<.1		<.1		<.1	
	1981	0.0		0.0		<.1		<.1		<.1		<.1	
	1982	<.1	266	<.1	292	<.1		<.1		<.1		<.1	324
	1983	<.1	306	<.1	297	<.1		<.1		<.1		<.1	400
	1984	<.1	301	<.1	272	<.1		<.1		<.1		<.1	433
	Atlantic croaker	1976	0.0		0.0		0.0		0.0		0.0		0.0
1977		<.1	285	0.0		0.0		0.0		0.0		0.0	
1978		<.1	248	0.0		0.0		0.0		0.0		0.0	
1979		0.0		0.0		0.0		0.0		0.0		0.0	
1980		<.1	240	0.0		0.0		0.0		0.0		0.0	
1981		<.1	274	<.1	320	<.1		<.1		<.1		<.1	
1982		<.1	264	0.0		0.0		0.0		0.0		0.0	
1983		<.1	286	0.0		0.0		0.0		0.0		0.0	
1984		<.1	269	<.1		<.1		<.1		<.1		<.1	

Table C.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
Sand searout	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	0.0		0.0		0.0		0.0	
	1979	0.0		0.0		0.0		0.0	
	1980	0.0		0.0		0.0		0.0	
	1981	0.0		0.0		0.0		0.0	
	1982	0.0		0.0		0.0		0.0	230
	1983	0.0		0.0		0.0		0.0	
	1984	0.0		0.0		0.0		0.0	
									<.1

Table C.14. 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 1976-1984. 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	386	0.3	448	0.0		0.0	
	1977	0.1	354	0.2	441	<.1	388	0.0	
	1978	0.0		0.2	437	<.1	523	<.1	655
	1979	<.1	432	0.2	466	<.1	415	<.1	689
	1980	0.3	383	0.5	430	0.1	476	0.1	638
	1981	0.1	357	0.1	449	<.1	534	<.1	502
	1982	0.1	426	0.3	451	0.1	513	<.1	568
	1983	0.2	372	0.1	426	<.1	523	<.1	536
	1984	0.1	398	0.4	434	0.2	525	0.1	491
Spotted seatrout	1976	0.3	322	0.1	496	0.0		0.0	
	1977	0.3	368	<.1	310	<.1	505	0.0	
	1978	0.3	355	0.2	524	<.1	596	<.1	624
	1979	0.1	429	0.1	533	0.1	635	<.1	624
	1980	0.1	435	0.1	539	0.1	561	<.1	499
	1981	0.3	371	0.2	515	<.1	619	<.1	672
	1982	0.4	409	0.3	521	0.1	590	<.1	571
	1983	0.3	407	0.2	528	0.1	611	<.1	610
	1984	0.1	411	0.1	509	<.1	541	<.1	506

Table C.14. (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	291	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	375	0.2		0.2	422	0.1		0.1	467
	Sheepshead	1976	0.0		0.0		0.0		0.0		0.0		0.0
1977		0.0		0.0		0.1		0.1	252	0.1		0.1	336
1978		0.0		<.1	350	<.1		<.1	322	0.2		0.2	362
1979		0.0		<.1	283	0.2		0.2	352	0.3		0.3	378
1980		0.0		<.1	266	0.1		0.1	333	<.1		<.1	327
1981		<.1	242	<.1	288	<.1		<.1	318	<.1		<.1	381
1982		<.1	262	<.1	318	0.1		0.1	327	0.1		0.1	366
1983		<.1	303	<.1	317	0.2		0.2	352	0.1		0.1	404
1984		0.0		<.1	284	<.1		<.1	372	0.1		0.1	390

Table C.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		0.0		0.0		0.0	
	1977	0.0		<.1		0.0		<.1	430
	1978	0.0		<.1	310	0.1	362	0.0	
	1979	<.1		<.1	322	<.1	372	0.1	409
	1980	0.0		<.1	271	<.1	362	<.1	312
	1981	<.1	266	<.1	290	<.1	390	0.0	
	1982	<.1	212	<.1	318	<.1	376	<.1	422
	1983	<.1	439	<.1	319	<.1	379	<.1	414
	1984	<.1	356	<.1	401	0.1	367	<.1	405
	Atlantic croaker	1976	1.0	227	0.0		0.0		0.0
1977		0.9	260	0.1	300	0.0		0.0	
1978		0.1	246	0.0		0.0		<.1	487
1979		0.1	264	0.0		0.0		0.0	
1980		0.1	268	<.1	314	0.0		0.0	
1981		0.1	270	<.1	221	0.0		0.0	
1982		0.1	275	<.1	353	<.1	250	<.1	223
1983		0.2	263	<.:	341	<.1		0.0	
1984		<.1	279	<.1	305	<.1	185	0.0	

Table C.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 searout	1976	0.0		0.0		0.2	266	0.1	265				
	1977	0.0		0.0		0.0		0.0					
	1978	0.0		0.0		0.0		0.0					
	1979	0.0		0.0		0.0		<.1	284				
	1980	<.1	312	0.0		0.0		0.0					
	1981	0.0		0.0		0.0		0.0					
	1982	<.1	329	<.1	270	<.1	268	<.1	293				
	1983	<.1	391	<.1	291	<.1	281	<.1	242				
	1984	0.0		0.0		<.1	247	0.0					

Table C.15. 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 1976-1984. 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	0.0		0.0		0.0		0.0	
	1977	0.0		0.1	414	<.1	535	0.0	
	1978	<.1	442	0.2	454	<.1	610	<.1	671
	1979	<.1	481	0.2	475	0.0		0.0	
	1980	0.4	384	0.4	446	<.1	423	<.1	434
	1981	0.2	385	0.2	421	<.1	620	0.0	
	1982	<.1	431	0.2	448	0.1	559	<.1	595
	1983	<.1	377	<.1	441	<.1	525	<.1	626
	1984	0.1	366	0.1	446	<.1	552	<.1	603
	Spotted seatrout	1976	0.0		0.0		0.0		0.0
1977		0.8	379	0.4	517	0.1	682	<.1	683
1978		0.6	456	0.2	502	<.1	665	<.1	670
1979		0.3	403	0.1	528	<.1	586	<.1	369
1980		0.3	421	0.1	516	<.1	629	<.1	613
1981		0.3	411	0.1	402	0.1	542	<.1	347
1982		0.4	408	0.2	529	0.1	577	<.1	578
1983		0.1	427	0.1	549	<.1	611	<.1	575
1984		<.1	416	<.1	485	<.1	627	0.0	

Table C.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	
Black drum	1976	0.0		0.0		0.0		0.0		0.0		0.0		
	1977	0.0		0.1	305	0.2	386	0.2	386	0.1	473	0.1	473	
	1978	0.0		<.1	294	<.1	376	<.1	376	0.1	454	0.1	454	
	1979	0.0		0.1	299	0.1	418	0.1	418	0.1	478	0.1	478	
	1980	<.1	346	0.3	333	0.3	407	0.3	407	0.1	477	0.1	477	
	1981	<.1	295	0.2	347	0.6	388	0.6	388	0.3	441	0.3	441	
	1982	<.1	250	0.4	306	0.1	425	0.1	425	0.2	476	0.2	476	
	1983	<.1	282	0.1	355	0.2	401	0.2	401	0.1	457	0.1	457	
	1984	<.1	312	0.1	398	0.2	425	0.2	425	0.2	499	0.2	499	
	Sheepshead	1976	0.0		0.0		0.0		0.0		0.0		0.0	
		1977	0.0		0.0		<.1	336	<.1	336	0.1	387	0.1	387
		1978	0.0		0.0		0.1	366	0.1	366	0.1	416	0.1	416
		1979	0.0		0.0		<.1	360	<.1	360	0.1	375	0.1	375
1980		0.0		<.1	352	0.1	361	0.1	361	0.1	378	0.1	378	
1981		0.0		<.1	314	<.1	350	<.1	350	0.1	428	0.1	428	
1982		0.0		<.1	327	0.1	351	0.1	351	0.1	373	0.1	373	
1983		<.1	405	<.1	329	<.1	376	<.1	376	0.1	411	0.1	411	
1984		<.1	378	<.1	298	<.1	352	<.1	352	0.1	402	0.1	402	

Table C.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
Southern flounder	1976	0.0		0.0		0.0		0.0	
	1977	0.0		0.0		0.0		0.0	
	1978	<.1	237	<.1	366	0.0		<.1	411
	1979	<.1	216	<.1	351	0.0		<.1	410
	1980	<.1	230	<.1	262	0.0		<.1	477
	1981	<.1	222	0.1	345	<.1	383	<.1	
	1982	<.1	229	<.1	325	<.1	369	<.1	397
	1983	<.1	261	<.1	333	<.1	371	<.1	431
	1984	0.0		<.1	316	<.1	323	<.1	443
Atlantic croaker	1976	0.0		0.0		0.0		0.0	
	1977	0.2	277	0.2	326	0.0		0.0	
	1978	0.1	261	<.1	325	0.0		0.0	
	1979	0.1	286	0.1	314	0.0		0.0	
	1980	0.2	303	0.1	334	0.0		0.0	
	1981	0.2	280	0.2	322	<.1	280	<.1	290
	1982	0.1	295	0.1	331	<.1	336	0.0	
	1983	<.1	282	<.1	321	<.1	340	<.1	240
	1984	<.1	306	<.1	342	<.1	172	0.0	

Table C.16. 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 1976-1984. 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	0.1	440	1.0	461	0.1	440	0.0					
	1977	0.1	390	0.4	440	0.1	510	<.1				422	
	1978	<.1	422	0.4	447	0.1	465	<.1				631	
	1979	<.1	385	0.2	445	<.1	556	<.1				512	
	1980	0.1	418	0.5	432	<.1	521	<.1				644	
	1981	0.3	423	0.5	436	0.1	485	<.1				450	
	1982	0.1	444	0.5	466	0.2	541	0.1				616	
	1983	0.1	416	0.5	445	0.1	556	0.1				604	
	1984	0.1	393	0.2	458	0.2	575	0.1				595	
	Spotted seatrout	1976	2.4	405	0.4	502	0.4	658	0.2				590
		1977	1.2	396	0.2	462	0.1	625	<.1				598
		1978	0.7	397	0.3	533	0.2	642	0.1				671
1979		0.2	387	0.2	527	0.1	663	<.1				724	
1980		0.4	397	0.2	517	0.2	663	0.1				616	
1981		1.3	398	0.4	533	0.4	632	0.1				592	
1982		1.4	414	0.6	519	0.3	595	0.1				613	
1983		0.6	419	0.5	520	0.2	615	<.1				575	
1984		0.3	401	0.2	495	0.1	598	<.1				528	

Table C.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		0.2	315	0.6	397	0.2	425				
	1977	<.1	438	0.1	347	0.3	403	0.4	483				
	1978	0.0		0.3	297	0.2	420	0.4	462				
	1979	<.1	330	0.2	311	0.3	407	0.4	477				
	1980	<.1	218	0.1	375	0.1	436	0.2	491				
	1981	0.1	311	0.2	324	0.3	409	0.3	465				
	1982	0.1	273	0.5	323	0.3	460	0.4	481				
	1983	<.1	312	0.3	387	0.8	419	0.5	510				
	1984	<.1	226	0.1	383	0.2	455	0.3	497				
	Sheepshead	1976	0.0		0.0		0.3	318	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	365				
1982		<.1	276	0.1	299	0.3	323	0.1	376				
1983		<.1	300	0.1	305	0.2	332	0.1	376				
1984		0.0		<.1	300	0.1	343	0.1	380				

Table C.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
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	351	0.1	307	0.1	385	0.1		0.1		<.1	456
	1980	<.1	325	<.1	346	<.1	361	<.1		<.1		<.1	518
	1981	<.1	270	<.1	287	<.1	402	<.1		<.1		<.1	418
	1982	<.1	310	0.1	321	<.1	360	<.1		<.1		<.1	445
	1983	<.1	350	<.1	330	<.1	372	<.1		<.1		<.1	418
	1984	<.1	204	0.0		<.1	386	<.1		<.1		<.1	466
	Atlantic croaker	1976	0.2	285	0.5	345	0.1	360	0.1		0.1		0.0
1977		0.2	267	<.1	300	0.0		0.0		0.0		0.0	
1978		0.1	273	0.0		0.0		0.0		0.0		0.0	
1979		0.1	263	0.1	344	<.1	412	<.1		<.1		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	273	0.1	374	<.1	434	<.1		<.1		0.0	
1984		<.1	264	<.1	312	0.0		0.0		0.0		0.0	

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

Table D.1. Mean surface salinity (o/oo) at sampled gill net sites by bay system during spring and fall, 1975-1984. ND = no data.

Year	Bay system																			
	East				San Antonio				Aransas				Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Galveston	Matagorda	Matagorda	San Antonio	San Antonio	Aransas	Aransas	Corpus Christi	Corpus Christi	Upper Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	Coastwide	Coastwide					
Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall					
1975	ND	14.6	ND	ND	20.0	ND	19.0	ND	16.0	ND	34.3	ND	25.0	ND	20.8					
1976	12.2	18.6	ND	29.4	14.6	15.0	9.9	18.0	16.1	ND	24.3	29.0	23.4	18.6	18.1					
1977	10.9	27.8	14.6	12.5	19.6	6.8	20.8	16.0	34.3	24.8	40.1	29.3	30.0	16.2	25.9					
1978	20.6	22.0	22.2	24.0	13.6	22.0	12.2	30.2	25.3	41.2	39.9	32.2	17.1	26.3	20.1					
1979	5.8	12.5	12.9	7.7	13.5	7.8	6.9	17.6	23.1	33.5	28.4	29.5	26.1	14.6	16.1					
1980	13.4	23.7	17.3	24.9	18.6	18.7	21.6	29.5	27.2	37.8	24.7	31.8	33.0	22.2	24.4					
1981	27.1	9.5	29.7	23.2	9.6	19.4	8.0	30.9	21.3	29.2	24.9	29.7	31.3	25.6	15.9					
1982	12.6	20.3	14.5	16.7	27.2	11.8	25.6	22.7	33.1	24.4	39.5	28.0	36.1	17.1	27.9					
1983	14.4	11.4	19.1	19.4	17.4	22.4	7.5	30.0	24.5	40.0	34.0	33.5	31.0	24.0	18.1					
1984	21.7	ND	23.5	27.4	ND	22.5	ND	31.9	ND	39.0	ND	35.2	ND	27.6	ND					

Table D.2. Mean surface water temperature (C) at sampled gill net sites by bay system during spring and fall, 1975-1984. ND = no data.

Year	Bay system																											
	Galveston				East Matagorda				San Antonio				Corpus Christi				Upper Laguna Madre				Lower Laguna Madre				Coastwide			
	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
1975	ND	20.8	ND	ND	21.1	ND	22.6	ND	16.4	ND	23.3	ND	22.7	ND	24.0	ND	26.5	ND	24.0	ND	24.4	ND	21.3	ND	24.4	ND	21.3	ND
1976	28.5	17.8	ND	15.2	28.5	24.9	24.2	2.8	29.0	24.1	24.2	26.0	19.3	ND	20.6	26.5	24.4	26.5	20.6	26.5	24.4	26.5	21.5	26.5	24.4	26.5	21.5	26.5
1977	24.6	22.2	25.4	22.7	24.9	23.4	24.2	25.2	24.8	22.8	24.5	25.4	22.8	25.7	25.6	27.0	23.4	25.7	25.6	27.0	23.4	25.7	23.4	27.0	23.4	25.7	23.4	27.0
1978	26.7	21.1	26.0	23.5	26.2	23.9	24.0	25.2	26.6	25.0	24.1	28.2	23.9	27.0	24.2	27.1	24.2	27.1	24.2	27.1	24.2	27.1	23.5	27.1	24.2	27.1	23.5	27.1
1979	26.4	23.2	27.3	23.6	27.0	24.0	24.7	27.4	26.7	24.5	24.7	27.1	25.5	28.2	25.1	27.6	24.4	27.6	25.1	27.6	24.4	27.6	24.4	27.6	24.4	27.6	24.4	27.6
1980	23.9	24.4	26.1	22.9	26.1	24.6	23.3	27.1	26.7	22.8	24.1	27.0	27.0	29.0	25.6	28.8	24.5	29.0	25.6	28.8	24.5	29.0	24.5	28.8	24.5	29.0	24.5	28.8
1981	26.4	25.6	26.8	24.4	25.1	24.9	23.2	26.6	27.2	25.0	25.4	26.8	25.8	26.6	26.3	26.6	25.4	26.6	26.3	26.6	25.4	26.6	25.4	26.6	25.4	26.6	25.4	26.6
1982	26.2	24.5	27.1	24.3	27.3	24.5	25.2	25.9	26.2	23.8	24.0	26.4	24.7	27.6	25.8	27.6	24.7	27.6	25.8	27.6	24.7	27.6	24.7	27.6	24.7	27.6	24.7	27.6
1983	25.6	25.3	25.7	26.4	24.9	25.6	25.5	25.8	26.1	25.3	25.6	26.5	27.0	27.4	26.8	26.5	26.0	27.4	26.8	26.5	26.0	27.4	26.0	26.5	26.0	27.4	26.0	26.5
1984	26.6	ND	25.3	ND	25.0	ND	ND	26.0	25.8	ND	ND	26.2	ND	27.3	ND	27.5	ND	27.3	ND	27.5	ND	27.3	ND	27.5	ND	27.3	ND	27.5

Table D.3. Mean surface dissolved oxygen (ppm) at sampled gill net sites by bay system during spring and fall, 1975-1984. ND = no data.

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

Table D.4. Mean surface turbidity (JTU) at sampled gill net sites by bay system during spring and fall, 1975-1984. ND = no data.

Year	Bay system																			
	East				San Antonio				Corpus Christi				Lower Laguna Madre				Coastwide			
	Galveston		Matagorda		San Antonio		Aransas		Christi		Upper Laguna Madre		Laguna Madre		Spring		Fall			
1975	ND	72	ND	ND	ND	44	ND	24	ND	27	ND	33	ND	34	ND	38	ND	38		
1976	91	61	ND	68	80	32	24	24	65	118	69	54	ND	38	24	58	50	50		
1977	81	67	39	32	39	74	52	44	54	172	45	39	44	32	40	65	50	50		
1978	79	43	61	24	67	67	61	65	48	46	42	61	65	41	40	61	46	46		
1979	147	75	57	29	77	64	82	67	44	66	52	57	33	89	33	81	56	56		
1980	102	72	75	50	85	34	44	48	35	59	33	45	54	69	62	68	50	50		
1981	53	67	58	65	62	65	47	43	60	57	39	243	46	66	126	85	56	56		
1982	66	59	85	53	76	46	36	89	32	52	38	54	32	78	131	74	53	53		
1983	57	60	50	25	56	43	44	43	41	39	42	49	37	63	49	50	46	46		
1984	45	ND	29	ND	36	ND	45	40	ND	55	ND	72	ND	ND	113	55	ND	ND		

Table D.5. Mean surface salinity (o/oo) at sampled bag seine sites by bay system during October 1982-September 1983. ND = no data.

Month	Bay system																
	Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide
Oct	20.5	ND	24.6	22.1	24.7	32.9	38.4	36.7	27.5								
Nov	16.8	ND	16.7	20.1	24.4	31.8	37.9	35.3	24.8								
Dec	13.8	ND	20.4	22.4	25.3	31.5	37.0	34.4	24.9								
Jan	6.5	ND	23.5	18.3	23.2	29.1	36.4	33.8	22.5								
Feb	6.3	14.5	17.6	16.3	22.5	29.9	33.2	28.9	20.0								
Mar	11.5	17.6	16.7	18.9	23.9	29.7	34.0	24.6	21.1								
Apr	14.1	18.9	17.3	18.8	23.3	31.2	29.5	32.3	23.6								
May	17.0	21.0	23.2	18.8	21.2	29.3	42.5	34.7	25.3								
Jun	17.8	18.5	18.6	18.6	20.7	26.7	41.0	32.6	24.3								
Jul	13.7	15.8	12.3	16.0	14.7	25.8	33.5	24.1	18.8								
Aug	12.5	14.0	10.0	12.0	9.9	27.8	33.7	32.4	18.2								
Sep	6.9	9.8	9.6	17.6	11.2	25.5	34.8	32.8	17.7								

Table D.6. Mean surface temperature (C) at sampled bag seine sites by bay system during October 1982-September 1983. ND = no data.

Month	Bay system										
	East			San Antonio			Corpus Christi	Upper		Lower	
	Galveston	Matagorda	Matagorda	Matagorda	Antonio	Aransas		Laguna Madre	Laguna Madre	Laguna Madre	Coastwide
Oct	21.3	ND	19.4	24.6	24.2	24.3	23.5	25.8	23.0		
Nov	22.7	ND	23.2	18.8	21.3	22.1	22.1	23.4	22.0		
Dec	15.0	ND	17.1	14.8	14.2	17.2	18.8	17.8	16.2		
Jan	13.9	ND	15.3	11.5	17.3	15.6	17.9	15.2	15.1		
Feb	17.9	15.3	15.2	14.9	16.9	16.1	19.6	17.2	16.8		
Mar	20.9	17.9	15.8	17.2	21.8	21.5	20.7	19.2	19.5		
Apr	21.3	25.0	21.1	22.0	23.3	23.2	24.6	22.2	22.4		
May	26.2	28.5	24.6	23.7	27.2	26.5	28.0	27.1	26.2		
Jun	30.0	26.6	29.6	27.7	30.1	29.9	31.2	29.7	29.4		
Jul	29.2	29.4	28.1	29.0	29.0	31.2	30.0	28.8	29.2		
Aug	30.8	31.0	30.2	30.5	30.5	31.1	33.3	30.3	30.9		
Sep	27.4	26.8	27.8	26.1	26.5	28.2	29.7	28.7	27.7		

Table D.7. Mean surface dissolved oxygen (ppm) at sampled bag seine sites by bay system during October 1982-September 1983. ND = no data.

Month	Bay system																	
	Galveston		East Matagorda		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
Oct	8		ND		8		6		8		8		6		8		7	
Nov	9		ND		8		8		9		7		6		8		8	
Dec	12		ND		8		9		10		7		6		8		9	
Jan	13		ND		7		8		10		9		7		9		9	
Feb	12		8		8		7		9		9		7		7		9	
Mar	7		8		7		7		8		9		7		9		7	
Apr	5		8		9		7		8		7		7		6		7	
May	7		9		9		8		9		7		6		8		8	
Jun	8		8		9		8		9		7		6		8		9	
Jul	8		7		9		6		7		7		8		8		8	
Aug	10		8		9		6		6		7		9		8		8	
Sep	9		8		8		6		7		7		7		7		7	

Table D.8. Mean surface turbidity (JTU) at sampled bag seine sites by bay system during October 1982-September 1983. ND = no data.

Month	Bay system										Coastwide				
	Galveston		East Matagorda		San Antonio		Aransas		Corpus Christi			Upper Laguna Madre		Lower Laguna Madre	
Oct	70	ND	58	25	38	52	35	87	55						
Nov	65	ND	56	17	26	32	85	37	47						
Dec	144	ND	19	16	52	28	56	26	58						
Jan	59	ND	45	25	26	27	30	25	37						
Feb	149	34	44	6	41	35	25	38	58						
Mar	115	44	33	5	54	48	49	33	54						
Apr	61	34	64	53	104	42	104	73	71						
May	91	26	51	39	50	68	95	24	61						
Jun	61	60	38	56	34	25	24	39	42						
Jul	72	40	81	30	42	48	43	36	53						
Aug	98	38	59	35	50	63	43	68	62						
Sep	118	39	61	22	50	39	39	38	59						

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

Table E.1. (Cont'd.).

Species Month	Bay system												Coastwide								
	Galveston			East 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	
Black drum																					
Oct	10.00	158	ND	5.00	133	0.00	2.08	146	0.00	146	0.00	5.00	190	2.00	191	4.73	164				
Nov	0.00		ND	26.67	140	0.00	2.00	142	0.00	142	0.00	0.00		1.96	235	4.71	172				
Dec	0.00		ND	0.00		0.00	0.00	150	0.00		0.00	0.00		0.00		0.29	150				
Jan	0.00		ND	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Feb	0.00		0.00	1.67	175	0.00	0.00		0.00		0.00	0.00		0.00		0.25	175				
Mar	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Apr	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.22	186				
May	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Jun	0.00		5.00	3.33	92	0.00	0.00		0.00		0.00	0.00		0.00		0.67	64				
Jul	193.33	81	6.67	8.33	110	0.00	6.12	109	6.82	105	2.50	64		0.00		45.29	96				
Aug	56.67	101	5.00	18.33	101	0.00	12.00	145	15.79	111	10.00	72		6.25	141	20.32	114				
Sep	3.57	164	10.00	0.00		6.67	4.17	172	0.00		12.50	138		0.00		3.95	148				
Sheepshead																					
Oct	10.00	327	ND	3.33	229	3.33	0.00		0.00		0.00	0.00		0.00		3.18	241				
Nov	3.33	396	ND	0.00		0.00	0.00		0.00		0.00	0.00		1.96	212	1.02	304				
Dec	0.00		ND	0.00		3.33	0.00		0.00		0.00	0.00		0.00		0.41					
Jan	0.00		ND	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Feb	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Mar	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Apr	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
May	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		0.00		0.00					
Jun	10.00	23	0.00	0.00		0.00	0.00		0.00		0.00	0.00		2.00	40	2.51	31				
Jul	0.00		0.00	1.67	50	0.00	0.00		0.00		0.00	0.00		4.00	48	0.78	49				
Aug	0.00		0.00	0.00		0.00	2.00	67	0.00		0.00	0.00		20.83	52	3.05	60				
Sep	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00		2.27	32	0.30	32				

Table E.1. (Cont'd.).

Species Month	Bay system												Coastwide										
	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			
Southern flounder																							
Oct	3.33	342	ND	3.33	145	0.00	3.33	144	0.00	0.00	0.00	0.00	0.00	0.00	2.50	114	0.00	0.00	0.00	310	1.57	200	
Nov	0.00		ND	5.00	162	3.33	3.33	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.96	1.46	43	1.46	205	
Dec	3.33	207	ND	1.67	158	0.00	0.00		2.00	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.43	31	
Jan	0.00		ND	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31
Feb	16.67	29	0.00	3.33	38	10.00	3.33	35	26.53	32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12	9.09	32	9.81	33	
Mar	73.33	40	3.39	10.00	55	10.00	10.00	54	38.00	41	2.27	2.38	39	0.00	0.00	0.00	0.00	9.09	14.29	64	25.42	47	
Apr	16.67	62	6.66	6.67	49	10.00	10.00	55	4.08	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	8.72	47	
May	3.45	68	1.67	0.00	95	3.33	3.33	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	70	
Jun	0.00		0.00	1.67	95	0.00	0.00	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	95	
Jul	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	127	
Aug	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sep	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Atlantic croaker																							
Oct	33.33	102	ND	21.67	136	3.33	3.33	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.27	115	
Nov	226.67	36	ND	28.33	85	3.33	3.33	25	6.00	28	81.40	19	0.00	0.00	0.00	0.00	0.00	9.80	9.80	48	65.57	40	
Dec	43.33	33	ND	23.33	35	23.33	3.33	33	32.00	29	63.83	34	0.00	0.00	0.00	0.00	0.00	142.00	142.00	32	46.37	33	
Jan	610.00	33	ND	96.67	32	3.33	3.33	36	0.00	0.00	13.64	35	10.00	10.00	10.00	42	0.00	236.00	236.00	38	181.48	36	
Feb	2260.00	44	17.54	826.67	44	33.33	3.33	38	134.69	37	16.67	45	0.00	0.00	0.00	0.00	0.00	246.94	246.94	56	672.36	44	
Mar	4536.67	47	37.29	286.67	65	26.67	62	62	348.00	52	25.00	73	0.00	0.00	0.00	0.00	0.00	40.91	40.91	65	1088.15	57	
Apr	1383.33	69	25.00	606.67	67	303.33	80	80	55.10	81	0.00	0.00	0.00	0.00	12.50	96	0.00	20.41	20.41	81	444.20	76	
May	717.24	89	311.67	258.33	75	320.00	78	78	134.04	82	0.00	0.00	0.00	0.00	7.50	127	0.00	4.44	4.44	83	263.22	87	
Jun	200.00	114	150.00	546.67	93	96.17	105	105	34.69	95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	111	146.92	100	
Jul	153.33	109	18.33	101.67	95	13.33	114	114	15.91	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.33	122	53.78	118	
Aug	243.33	96	18.33	70.00	114	0.00	0.00	0.00	12.00	119	2.63	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	122	66.17	117
Sep	71.43	120	8.33	5.00	173	0.00	0.00	0.00	0.00	0.00	2.50	42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.76	118	

Table E.1. (Cont'd.).

Species Month	Bay system												Coastwide								
	Galveston			East 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	
Sand																					
seat rout																					
Oct	23.33	54	ND	ND	16.67	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	85	8.11	69
Nov	20.00	74	ND	ND	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	74
Dec	0.00		ND	ND	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	0.00		ND	ND	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	13.33	30	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59	30
May	96.55	46	15.00	53	16.67	54	0.00	0.00	2.13	77	25.00	53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.52	57
Jun	86.67	61	6.67	52	160.00	72	0.00	0.00	2.04	73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.37	65
Jul	6.67	94	0.00	0.00	20.00	76	0.00	0.00	0.00	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45	85
Aug	96.67	56	1.67	51	28.33	66	0.00	0.00	4.00	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.85	60
Sep	150.00	51	13.33	55	110.00	52	0.00	0.00	0.00	52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.54	53

