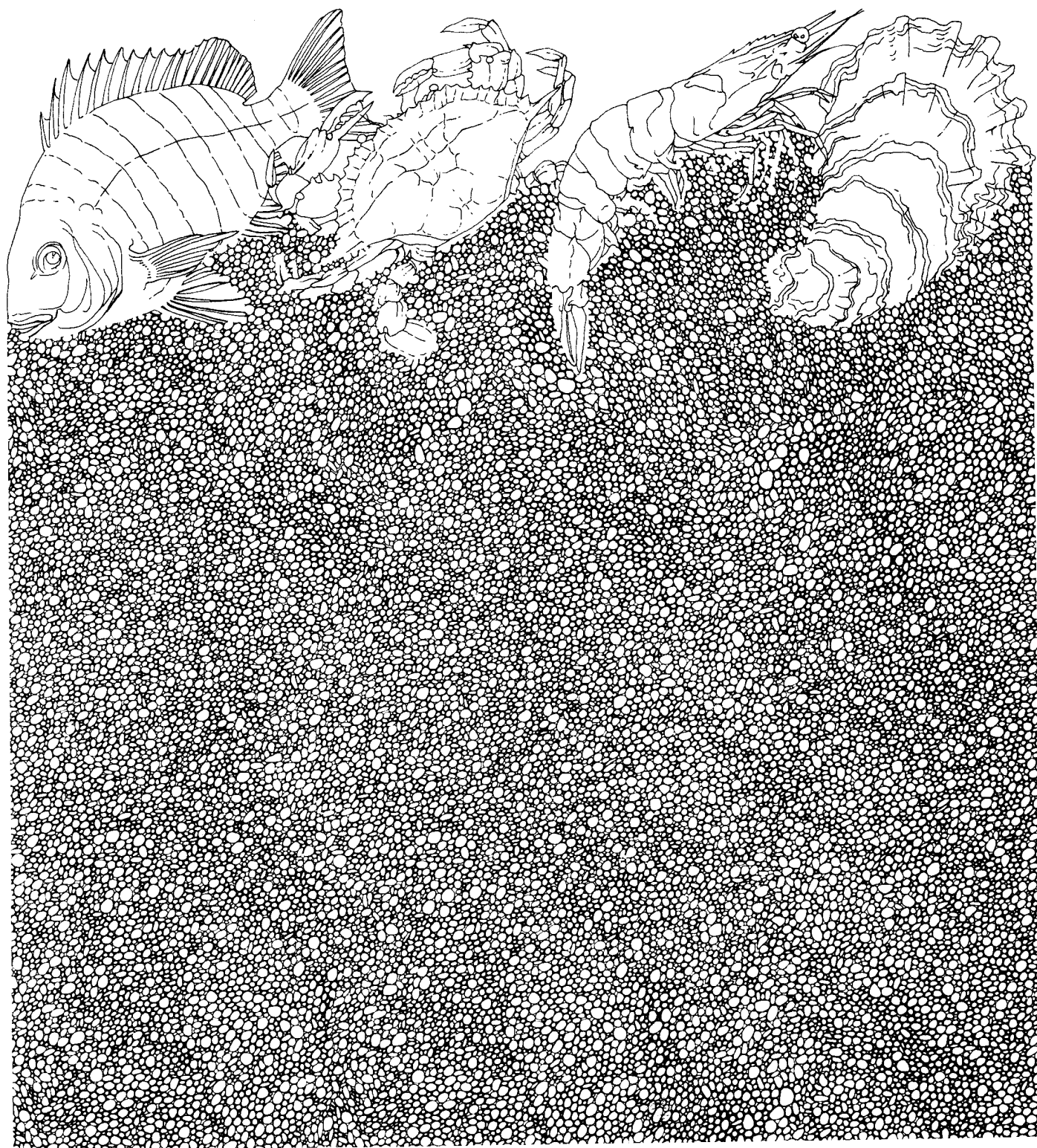


# Trends in Finfish Landings by Sport-Boat Fishermen in Texas Marine Waters, May 1974 - May 1986

by Hal R. Osburn and Maury O. Ferguson

Management Data Series Number 119  
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Texas Parks and Wildlife Department  
Coastal Fisheries Branch



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TRENDS IN FINFISH LANDINGS BY SPORT-BOAT FISHERMEN  
IN TEXAS MARINE WATERS, MAY 1974-MAY 1986

## ABSTRACT

Since May 1974, private-boat fishermen have been routinely interviewed at boat-access sites. Party and headboat fishermen have been routinely monitored since May 1983 by on-site and on-board surveys. The total estimated sport-boat (bay and pass private-, party- and headboats and Texas Territorial Sea and Fishery Conservation Zone private- and party-boats) fishing pressure and landings of finfish in 1985-86 was 6,393,300 man-h and 2,189,700 fish, respectively. From 1983-84 to 1985-86, pressure decreased 6% and landings decreased 28%. Sport-boat fishing in bays and passes accounted for 92% of the pressure and 94% of the landings in 1985-86. In the same year, private-boat fishermen exerted 93% of the pressure and landed 84% of the fish. The high-use season (15 May-20 November 1985) accounted for 63% of the pressure and 73% of the landings. Thirty-five percent of the 7-year mean annual coastwide private-boat bay and pass fishing pressure and 43% of the landings occurred in the Galveston Bay system. Spotted seatrout (Cynoscion nebulosus) comprised 38% of the 7-year mean annual coastwide private-boat bay and pass landings. Catch rates for spotted seatrout caught by private-boat fishermen declined 60% from 1983-84 to 1984-85 but increased 25% in 1985-86. The routine sport-boat fishery monitoring program detected a reduction in most finfish landings following the coastwide fish kill in December 1983 and January 1984. A resurgence of some landings occurred during 1985-86.

## INTRODUCTION

The Texas saltwater sport-boat fishery is an economically and biologically important segment of the total Texas coastal fishery. There were nearly one million resident saltwater sport fishermen in Texas during 1978-79 (Green et al. 1982). Direct expenditures by these fishermen translate into over one billion dollars of economic value annually to the State of Texas (Anonymous 1985, Grubb 1973).

Landings data from sport-boat fishermen are required to assess the needs for and the impact of saltwater fishing regulations. Economic and sociologic information can also be inferred from landings data to allow for management based on optimum sustainable yield (Radovich 1975).

The Texas Parks and Wildlife Department (TPWD) has conducted surveys of sport fishermen in Texas marine waters since 1974 (Heffernan et al. 1976; Breuer et al. 1977; Green et al. 1978; McEachron 1980a, 1980b, 1983, 1984; McEachron and Green 1981, 1982, 1983, 1984a; McEachron et al. 1981, 1984a; Osburn and Ferguson 1985a, 1985b, 1986). These surveys monitored the species composition, size, number and landings per unit of effort of economically important species landed by sport-boat fishermen on a yearly basis in the Galveston, Matagorda, San Antonio, Aransas, Corpus Christi and the upper and lower Laguna Madre bay systems, and in the Gulf of Mexico off Texas.

This report includes weekend and weekday estimates for private-boat and party-boat fishing in Texas bays and passes, the Texas Territorial Sea and the U.S. Fishery Conservation Zone for all years for which data are available (1974-1986). The report also includes weekend and weekday bay and pass headboat landings for May 1983 to May 1986. Routine monitoring of offshore headboats was terminated 10 September 1984. Previous headboat estimates are published in Osburn and Ferguson (1986).

## MATERIALS AND METHODS

Each year was divided into high-use (15 May-20 November) and low-use (21 November-14 May) seasons based on analyses of fishing pressure, landings and catch rates of private-boat fishermen completing a fishing trip (McEachron et al. 1983). Seasons were partitioned by day type (weekend and weekday). Six holidays (New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day) were classified as weekend days.

Areas fished were defined as:

1. Bay: that area shoreward of the barrier islands and pass entrances;
2. Pass: one of the openings connecting the bays and the Gulf of Mexico specified in Appendix A;

3. Texas Territorial Sea (TTS): the Gulf of Mexico from the surf line to 16.7 km offshore, excluding the 1.6 km area around a pass; and
4. U.S. Fishery Conservation Zone (FCZ): the Gulf of Mexico beyond 16.7 km offshore.

Private-boat fishing was defined as fishing from a privately owned or rental boat without a guide and includes tournament fishing if no guide was hired. Party-boat fishing was defined as fishing from a boat, operated by a guide, that carried  $\leq 10$  people for a fee. Headboat fishing was defined as fishing from a boat, operated by a guide and crew, that carried  $>10$  people for a fee. No known commercial fish landings estimates are included in this report. Sport-boat fishing was defined as the sum of private-boat, party-boat and bay and pass headboat fishing.

Differences in the estimates in this report compared with previously published estimates for the same item are due to updating of the data base and the most recent report should be considered the most accurate.

#### Private-boat Fishing

Bay fishermen were interviewed in all survey years. Beginning September 1977, all fishing parties (bay, pass and Gulf) were interviewed although Gulf fishing was not separated into TTS and FCZ fishing until May 1982. Estimates for TTS and FCZ fishing were made for an area rather than a bay system because of travel through common passes and the use of common gulf areas by fishermen launching their boats in separate but adjacent bay systems. Areas were defined as Galveston (Galveston Bay/Freeport area), Matagorda (Matagorda Bay/San Antonio Bay), Corpus Christi (Aransas Bay/Corpus Christi Bay/upper Laguna Madre) and the lower Laguna Madre.

The sampling design for weekend private-boat fishermen was described in Heffernan et al. (1976) and was modified by Green et al. (1978). A roving clerk traveled through each bay system at a constant rate on randomly selected weekend and weekday days and counted boat trailers at identified boat ramps. Beginning May 1983, empty wet-slips and mooring spaces at marinas and boat houses were also counted. Relative fishing pressure estimates (percent of total bay system activity per site per day) were obtained by adjusting trailer and wet-slip boat activity counts with activity data collected from boat party interviews at surveyed sites and the number of rented wet-slips obtained from marina and boat-house operators. Boat-access sites are listed in Appendix B, Figures B.1-B.12, Table B.1.

Department personnel were stationed at randomly selected boat-access sites on randomly selected weekend and weekday days to collect landings data by interviewing fishing parties that had completed a trip. Interview sites were selected randomly in proportion to mean boat trailer and wet-slip counts obtained during the previous 3 years (TPWD unpublished data). Therefore, boat-access sites with high fishing activity (i.e., mean trailer and wet-slip counts) were surveyed more often than sites with low fishing activity. Interviews were conducted from 1000 to 1800 based on diel activity data obtained during the first 2 years of the survey

(Heffernan et al. 1976, Breuer et al. 1977) which indicated the amount of data collected per unit of sampling effort could be maximized (McEachron et al. 1983). Additional efficiency was achieved beginning 21 November 1984 through termination of weekend samples at 1400 if no fishing interviews were conducted up to that time (Weixelman and Green 1984). From 21 November 1985 to 14 May 1986 weekend and weekday samples were not conducted when environmental conditions reached a critical "bad" level based on nomographs relating air temperature, wind speed and precipitation to interviews conducted (Spiller et al. In prep.). Those samples were counted as zero interview (zero pressure) samples in the estimation procedure. Estimates have been adjusted by the percent of missed angler interviews occurring prior to 1000 and after 1800.

Interviewers recorded species (Callaway et al. 1972, Hoese and Moore 1977, Robins et al. 1980) and number of all fish brought to shore (landings) by fishing parties as well as number of persons in the party, geographic origin of residence, fishing location, gear and bait used and trip length. Until May 1983, only weight (kg) of fishes was recorded. Beginning May 1983, fish were measured to the nearest mm (total length). Mean total lengths prior to May 1983 were back calculated using weight-length regressions of the mean for each bay system, species, season and day type (Harrington et al. 1979; TPWD unpublished data). Coastwide mean weights and total lengths were weighted by the estimated number of fish landed in each bay system. Geographic origin of residence was classified as:

1. Coastal adjacent: counties surrounding a bay system within 80 km of the surfline;
2. Coastal non-adjacent: counties having a border within 80 km of the surfline but not adjacent to the bay system where the interview occurred;
3. Non-coastal: all Texas counties further than 80 km from the shoreline; and
4. Out-of-state: states other than Texas or foreign countries.

From May 1974 to May 1983, the boat owner's residence was recorded for the entire party. Beginning May 1983, the origin of residence was recorded for individual party members.

In earlier years, the private-boat landings were estimated as the product of the mean catch (landings) rate and the fishing pressure in trip man-h (Heffernan et al. 1976). Since interview sites were selected at random and in proportion to total fishing pressure, this technique depended upon a roving clerk traveling through the fishery obtaining fishing pressure at all sites at any given time during the survey period. In the fall of 1979, gas shortages and irregular operating hours by gas stations made it impossible to strictly comply with these procedures. Since the potential for similar problems existed in the future (1979 was the second gas shortage within a 4-year period), an alternate method of estimating landings and pressure that depended much less on the use of an automobile was developed. Data collected since 1974 were used to estimate a set of probabilities that described the patterns

of fishing pressure within a day and at each inventoried access site (TPWD unpublished data). A roving clerk is still required to inventory boat-access sites, however the objective is no longer to estimate the total pressure occurring at each site but to estimate what proportion of the total pressure is occurring at each site. This can be accomplished with fewer roves during a short time period (0800-1230) when there is little change in boating activity. This reduces the use of the automobile from 16% to 33% of the previous requirements depending on the actual rove schedule adopted. A comparison of estimates made from selecting survey sites as strictly random samples and by selecting survey sites in proportion to the activity that occurs at each site was made by McEachron and Green (1984a).

The following equations were used to estimate landings ( $\hat{H}$ ) separately for each area (bay, pass, TTS and FCZ):

$$\hat{H} = \sum_{i=1}^4 D_i \cdot \bar{h}_i$$

where,  $D_i$  = the total number of days that occurred in the  $i$ th stratum (season and day type), and

$\bar{h}_i$  = the mean number of fish landed per day during daylight hours in the  $i$ th stratum calculated as

$$\bar{h}_i = \frac{1}{n} \cdot \sum_{j=1}^n h_{ij} \cdot P_j / e_j$$

where  $n$  = the total number of days sampled,

$h_{ij}$  = the total number of fish observed at site  $j$  in the  $i$ th stratum,

$P_j$  = the proportion of parties missed by interviewers at site  $j$  (total number of parties seen divided by the total number of parties interviewed),

$e_j$  = the estimated proportion of total fishing activity in the bay system that occurred at site  $j$  calculated as:

$$e_j = \frac{FH_j}{\sum_{j=1}^k FH_j}$$

where,  $FH_j$  = the total number of trailers and/or empty wet-slips observed at site  $j$  during the previous 3 years, and

$k$  = the total number of sites.

Pressure ( $\hat{P}$ ) was estimated separately for each area (bay, pass, TTS and FCZ) using:

$$\hat{P} = \sum_{i=1}^4 D_i \cdot \bar{m}_i$$

where,  $D_i$  = the total number of days that occurred in the  $i$ th stratum (season and day type), and

$\bar{m}_i$  = the mean number of fishing trip man-hours per day during daylight hours in the  $i$ th stratum calculated as:

$$\bar{m}_i = \frac{1}{n} \cdot \sum_{j=1}^n m_{ij} \cdot p_j / e_j$$

where,  $n$  = the total number of days sampled,

$m_{ij}$  = the total number of fishing trip man-hours observed at site  $j$  in the  $i$ th stratum,

$p_j$  = the proportion of parties missed by interviewers at site  $j$  (total number of parties seen divided by the total number of parties interviewed), and

$e_j$  = the estimated proportion of total fishing activity in the bay system that occurred at site  $j$  calculated as:

$$e_j = \frac{FH_j}{\sum_{j=1}^K FH_j}$$

where,  $FH_j$  = the total number of trailers and/or empty wet slips observed at site  $j$  during the previous 3 years, and

$k$  = the total number of sites.

This technique is described by Kish (1965) and is used to make estimates from samples selected from clusters which are proportional. Variances were calculated using ratio estimation for the ratios of landings per day, fishing trip man-hours per day, the estimated proportion of fishing activity per site, and the proportion of parties missed by interviewers (Mendenhall et al. 1971).

The estimation of the proportion ( $e_j$ ) of total pass and Gulf fishing activity at site  $j$  used an average of weekend and weekday activity due to a scarcity of data for individual day types. The amount of activity at each site with a history of pass or Gulf fishing was computed by averaging the weekend and weekday mean pass and Gulf trip man-h from all previous years since May 1979. When weekend or weekday data were not available the amount of activity was estimated as:

$$X_1 = 3X_2/2$$

when weekend data were not available, and as:

$$\bar{X}_2 = (X_1/2 + X_1)/2$$

when weekday data were not available,

where,  $X_1$  = weekend trip man-h, and

$X_2$  = weekday trip man-h.

The amount of activity at sites which had pass or Gulf activity in the year being estimated but no prior history was set equal to sites with historical data that had similar total pressure. The relative percent activity of boat ramps with pass or Gulf history were computed from a total of 95% of all activity. All other boat ramps without historical pass or Gulf activity were assigned equal percents summing to 5% of the total activity.

For years when no weekday surveys were conducted (1976-77 to 1978-79), landings and pressure estimates for weekdays were calculated by multiplying weekend landings and pressure by an adjustment factor. Adjustment factors were calculated from the percent of total weekend and weekday landings and pressure comprised by weekend landings and pressure from May 1979 to May 1984 (Appendix C). Variances used in the figures for 1976-77 to 1978-79 were calculated using the percent that variances comprised of annual landings and pressure for 1974-76 and 1979-80 to 1984-85. Seven-year means (1979-80 to 1985-86) were used for figures showing percent distributions since methods were consistent and weekday landings were available.

Estimates made from this survey, on an annual basis, are comparable to previous survey estimates. However, one assumption must be made when comparing landings estimates from year to year. The mean catch rate and mean fish size for parties returning before or after the interview period (1000 to 1800) must be the same as those for parties returning during the interview period.

For the purpose of making annual coastwide landings and fishing pressure comparisons, the data of 1974-75 and 1975-76 have been combined and are referred to as 1974-76. Four of the Texas bay systems were surveyed in 1974-75 (Galveston, San Antonio, Aransas and the upper Laguna Madre) and three were surveyed in 1975-76 (Matagorda, Corpus Christi and the lower Laguna Madre). Thereafter, all bay systems were surveyed each year.

#### Party-boat Fishing

From May 1983 to May 1986, party-boat fishermen were interviewed whenever they were encountered during the routine private sport-boat fishing survey. The inclusion of marinas and boat-houses in the surveyed boat-access site inventory provided for interception of party-boats which were previously surveyed in special studies (McEachron 1983, 1984; McEachron and Matlock 1983; McEachron et al. 1984a). Interview and estimation procedures for May 1983-May 1986 were identical to those described for private-boat fishing.

Estimates of party-boat landings and pressure in this report may not be directly comparable to survey estimates for years prior to May 1983. Time periods, sample site selection and estimation procedures were different from previous methods. Estimates in this report were made on a high- and low-use season basis. During June-August of 1979, 1981 and 1982, party-boat storage and launching areas were randomly selected on 8 days per month in each area, except in the Matagorda area where only 4 days per month were surveyed. Trips were estimated on an annual basis but landings were estimated for June-August only. Beginning May 1983, boat-access areas were sampled in proportion to their historical fishing activity (Osburn and Ferguson 1985b). Prior to May 1984-May 1985 surveys, the historical fishing activity data used did not include party-boats. If party-boat pressure is distributed in a different pattern by site than private sport-boat fishing, then the precision of the party-boat estimates in this report will be biased. Estimation of landings and pressure in this report relied on calculation of a mean daily landings rate adjusted by the relative proportion of activity at a site. Earlier estimates multiplied landings rates in man-h by total trips, mean trip time and mean people per trip.

#### Headboat Fishing

Bay and pass headboats were inventoried using the TPWD Fish Guide License list and by personally contacting marinas, bait stands and commercial guide services in each area of fishing activity (Appendix B, Table B.2).

From May 1983 to May 1986, bay and pass headboats were randomly selected on 14 weekday days and 7 weekend days during both the high- and low-use seasons in each of the Galveston (Galveston Bay), Corpus Christi (Aransas Bay/Corpus Christi Bay/Upper Laguna Madre) and lower Laguna Madre areas.

Headboat surveys were conducted aboard the vessel. All fish retained were counted and identified (Gallaway et al. 1972, Hoese and Moore 1977, Robins et al. 1980). On each trip, total lengths of up to 100 individuals of each species were measured to the nearest mm. The number of sport fishermen and fishing time (nearest 0.5 h) were also recorded. The total number of trips made on each survey day was determined by contacting all inventoried headboat operators by phone.

The following equations were used to estimate landings ( $\hat{A}$ ):

$$\hat{A} = \sum_{i=1}^4 D_i \cdot \bar{h}_i$$

where,  $D_i$  = the total number of days that occurred in the  $i$ th stratum (season and day type), and

$\bar{h}_i$  = the mean number of fish landed per day in the  $i$ th stratum calculated as



$$\bar{h}_i = \frac{1}{n} \cdot \sum_{j=1}^n h_{ij} \cdot t_i / e_{ij}$$

where,  $n$  = the total number of days sampled,  
 $h_{ij}$  = the total number of fish landed during a trip on headboat  $j$ ,  
 $t_i$  = the mean number of trips made per day by all boats in the  $i$ th stratum, and  
 $e_{ij}$  = the estimated proportion of total fishing activity occurring on headboat  $j$  calculated as:

$$e_{ij} = T_{ij} \cdot P_{ij} / \sum_{j=1}^k (T_{ij} \cdot P_{ij})$$

where,  $T_{ij}$  = the number of trips made by headboat  $j$  on all surveyed days in the  $i$ th stratum,  
 $P_{ij}$  = the mean number of people per trip fishing on headboat  $j$ , and  
 $k$  = the total number of headboats.

Linear regression analysis found a positive correlation between fish landed and mean number of people per trip for all strata except bay headboats during the low-use season (Osburn and Ferguson 1985a). When no data on mean number of people per trip were available the number was estimated by adjusting that boat's legal passenger capacity by the ratio of number of people per trip to passenger capacity of all surveyed headboats in the  $i$ th stratum. Linear regression analysis showed a positive correlation between mean number of people per trip and passenger capacity for all strata except bay headboats (Osburn and Ferguson 1985a).

The use of  $e_{ij}$  to adjust trip catch (landings) rates is valid for proportional sampling (Kish 1965). Although headboats were to be selected randomly, when a boat was contacted but was not making a trip on the survey day, surveyors continued contacting all headboats until one making a trip was found. Thus more active headboats were surveyed more often, resulting in defacto proportional sampling. Variances were calculated using ratio estimation (Mendenhall et al. 1971).

Procedures for calculating mean total lengths and weights were similar to those described for private-boat fishermen.

Origin of residence information was classified according to the description given under private-boat fishing.

Headboat estimates in this report are comparable to previously reported estimates although some difference in seasons does exist.

Equations used in the present survey were based on mean daily catch rates. Previous reports based estimates on trip catch rates extended by the number of people per trip and mean number of trips per day (McEachron 1984). The total number of trips made during a specified time period in these earlier reports was determined by a telephone census of headboat operators.

## RESULTS

Sport-boat fishermen spent 6,393,300 man-h to land 2,189,700 fish during 1985-86 (Table 1). Sport-boat fishing pressure in Texas saltwater increased 36% and landings increased 28% from 1984-85 to 1985-86 but remained 6% and 28%, respectively, below the values recorded in 1983-84. Pressure and landings increased in all areas fished and all strata of sport-boat fishing except for landings by private-boat fishermen in the TTS and party-boat fishing pressure in the FCZ. Bay and pass sport-boat fishing accounted for 92% of the pressure and 94% of the landings in 1985-86. In 1985-86, fishing in the TTS accounted for only 3% of the pressure and 2% of the landings while FCZ fishing accounted for 4% of the pressure and 4% of the landings. Private-boat fishermen exerted 93% of the total pressure and landed 84% of the fish in 1985-86. Party-boat fishermen accounted for 4% of the pressure and 5% of the landings. Bay and pass headboat fishermen exerted 3% of the pressure and landed 11% of the fish. In 1985-86, 63% of the pressure and 73% of the landings occurred during the high-use season.

### Bays and Passes

#### Private-boat fishing

Since 1974, over 124,000 interviews have been conducted with private-boat fishermen fishing in Texas bays and passes (Appendix D, Tables D.1-D.2). Annual fishing pressure generally increased until 1983-84, decreased in 1984-85 and increased again in 1985-86 (Fig. 1) (Appendix D, Table D.3). This trend is also reflected in license sales and boat registrations (Appendix E, Tables E.1-E.2). Coastwide annual landings generally declined from a high of 5,506,600 fish in 1974-76 to a low of 1,462,300 fish in 1984-85 but increased slightly to 1,727,400 fish in 1985-86 (Fig. 1) (Appendix D, Table D.4). This pattern was similar during the high-use season but not during the low-use season (Fig. 2) (Appendix D, Tables D.5-D.8). High-use season weekend pressure generally increased since 1979 until a dramatic decrease in 1984 followed by an increase in 1985; landings showed a steady decline except in 1982 (Fig. 2) (Appendix D, Tables D.3, D.5). High-use season weekday pressure was similar in all years except for an increase in 1980 and a decrease in 1984 while landings have generally declined except for 1980 (Fig. 2) (Appendix D, Tables D.3, D.6). Low-use season pressure and landings on both weekends and weekdays remained stable since 1976-77 until an increase in pressure in 1985-86 (Fig. 2) (Appendix D, Tables D.3., D.7-D.8). Based on 7-year means, fishing on high-use season weekdays accounted for nearly one-third of the annual coastwide pressure but almost one-half of the landings (Fig. 3).

Low-use season fishing accounted for 28% and 29% of the mean annual pressure and landings, respectively.

Thirty-five percent of the mean annual coastwide pressure and 43% of the landings occurred in the Galveston Bay system (Fig. 4). The San Antonio Bay system accounted for the smallest percentage of the mean annual coastwide pressure and landings. The Galveston Bay system had the greatest decline in annual pressure and landings from 1974 to 1986 although pressure remained relatively stable since 1977 (Fig. 5). Trends in landings and pressure varied among other bay systems, but the magnitude of change was small compared to the Galveston Bay system (Figs. 6-11).

Spotted seatrout (Cynoscion nebulosus) comprised 38% of the mean annual coastwide landings and together with sand seatrout (C. arenarius) and Atlantic croaker (Micropogonias undulatus) accounted for almost 70% of the private-boat landings from bays and passes (Fig. 12). The Galveston Bay system had the highest percentage of the mean annual coastwide landings of Atlantic croaker, black drum (Pogonias cromis), gafftopsail catfish (Bagre marinus), red drum (Sciaenops ocellatus), sand seatrout, sheepshead (Archosargus probatocephalus), southern flounder (Paralichthys lethostigma) and spotted seatrout (Fig. 13).

Annual coastwide landings of all finfish combined have decreased by 69% since 1974-76 (Appendix D, Table D.4). Decreases in landings of individual species since 1974-76 have ranged from 12% for southern flounder to 79% for gafftopsail catfish and spotted seatrout (Figs. 14-21). A steady decrease in landings since 1974-76 occurred for Atlantic croaker (70%) and sand seatrout (71%). Landings of black drum, gafftopsail catfish, red drum, sheepshead and southern flounder have not steadily increased or decreased although landings of these species in 1985-86 were all lower than in 1974-76. Landings by season and day type show patterns similar to those of the annual estimates (Appendix D, Tables D.5-D.8).

Annual coastwide mean catch rates for all species combined declined 70% from 1.08 fish/man-h in 1976-77 to 0.32 fish/man-h in 1985-86 (Appendix D, Table D.9). None of the reported species had a catch rate in 1985-86 higher than that of 1974-76 (Figs. 14-21). Catch rates for Atlantic croaker declined from 0.22 fish/man-h in 1977-78 to 0.05 fish/man-h in 1985-86 (Fig. 14). Black drum catch rates ranged from 0.02 to 0.05 fish/man-h until decreasing to 0.01 fish/man-h in 1983-84 through 1985-86 (Fig. 15). Catch rates for gafftopsail catfish ranged from 0.02 to <0.01 in all years (Fig. 16). Red drum catch rates decreased from 0.05 fish/man-h in 1974-76 to 0.01 fish/man-h in 1983-84 but increased to 0.03 fish/man-h in 1985-86 (Fig. 17). Sand seatrout catch rates declined from 0.25 fish/man-h in 1976-77 to 0.05 fish/man-h in 1985-86 (Fig. 18). Catch rates for sheepshead showed no general pattern of increase or decrease (Fig. 19). Southern flounder catch rates remained stable at 0.02 to 0.04 fish/man-h from 1980-81 to 1985-86 after reaching a high of 0.12 fish/man-h in 1979-80 (Fig. 20). Spotted seatrout catch rates decreased 60% from 0.47 fish/man-h in 1976-77 to 0.19 fish/man-h in 1979-80, then increased to 0.30 fish/man-h the next year, decreased again to a low of 0.08 fish/man-h in 1984-85 and rose slightly to 0.10 fish/man-h in 1985-86

(Fig. 21). Catch rates for individual species and all finfish combined by season and day type are presented in Appendix D, Tables D.10-D.13.

Mean weights and total lengths for individual species varied by year, season and day type (Figs. 14-21) (Appendix D, Tables D.14-D.21). Both red drum and spotted seatrout have shown a general increase in size from 1979-80 to 1985-86 (Figs. 17 and 21). The annual coastwide mean weights increased 153% for red drum and 53% for spotted seatrout in those years.

Southern kingfish (Menticirrhus americanus) was the predominant species included in the "other" species category for 1985-86 (Appendix D, Table D.22). Pinfish (Lagodon rhomboides), pigfish (Orthopristis chrysoptera) and hardhead catfish (Arius felis) were also predominant species in the "other" category.

The majority (56-64%) of private-boat fishing trips were made by fishermen who lived in coastal counties adjacent to the bay system fished every year, except in 1983-84 (49%) (Appendix D, Tables D.23-D.25). The annual coastwide mean fishing-party size and mean trip length ranged from 2.5 people to 2.7 people and from 5.3 h to 7.1 h, respectively (Appendix D, Table D.26).

#### Party-boat fishing

Since 1983, nearly 1,800 party-boat fishermen fishing in Texas bays and passes have been interviewed (Appendix F, Table F.1). Annual coastwide pressure decreased 49% from 1983-84 (249,900 man-h) to 1984-85 (127,600 man-h) then increased 76% in 1985-86 (224,800 man-h). Annual coastwide landings decreased 74% from 1983-84 (261,800 fish) to 1984-85 (67,600 fish) then increased 54% in 1985-86 (104,000 fish) (Appendix F, Tables F.2-F.3). Spotted seatrout comprised 65-74% of the landings in each year. The majority of coastwide landings occurred during the high-use season weekdays (Appendix F, Tables F.4-F.5).

Mean annual coastwide catch rates decreased from 1983-84 to 1985-86 for all species except gafftopsail catfish and red drum (Appendix F, Table F.6). Catch rates by season and day type are presented in Appendix F, Tables F.7-F.8. Comparable annual pressure and landings estimates prior to May 1983 were not available, however, mean catch rates for selected species for summer months (June-August) during 1979-1985 are presented in Appendix F, Table F.9. Coastwide mean catch rates during the summer for all species combined ranged from 0.47 fish/man-h in 1985 to 1.91 fish/man-h in 1982 (Appendix F, Table F.9). The annual coastwide mean weight and total length of red drum increased while that of spotted seatrout remained stable from 1983-84 to 1985-86 (Appendix F, Tables F.10, F.13). Mean weights and total lengths by species, bay system, year, season and day type are presented in Appendix F, Tables F.11-F.12, F.14-F.15. Species included in the "other" species category were primarily gray triggerfish (Balistes capriscus), ladyfish (Elops saurus), southern kingfish and Atlantic cutlassfish (Trichiurus lepturus) in 1985-86 (Appendix F, Table F.16).

The highest percentage of party-boat fishing trips were made by fishermen from non-coastal counties (40-47%) (Appendix F, Tables F.17-

F.19). The annual coastwide mean fishing-party size (3.4-3.6 people) and mean trip length (5.7-6.3 h) remained similar from 1983-84 to 1985-86 (Appendix F, Table F.20).

#### Headboat fishing

Since 1983, nearly 8,200 headboat fishermen fishing in Texas bays and passes have been interviewed (Appendix G, Table G.1). Annual coastwide pressure decreased 29% from 1983-84 (188,900 man-h) to 1984-85 (134,000 man-h) then increased 56% in 1985-86 (209,600 man-h). Annual coastwide landings decreased 43% from 1983-84 (131,300 fish) to 1984-85 (74,600 fish) then increased 211% in 1985-86 (232,000 fish) (Appendix G, Tables G.2-G.3). Sand seatrout comprised 58-77% of the landings each year. The majority of coastwide landings occurred during the high-use season (Appendix G, Tables G.4-G.5).

Annual coastwide mean catch rates decreased from 1983-84 (0.70 fish/man-h) to 1984-85 (0.56 fish/man-h) for all species combined but increased in 1985-86 (1.11 fish/man-h) (Appendix G, Table G.6). Comparable annual estimates of pressure and landings prior to May 1983 were not available, however, mean catch rates for selected species during 1978-1986 are presented in Appendix G, Table G.9. Coastwide mean catch rates fluctuated during the high-use season since 1978 but steadily increased during the low-use season. The annual coastwide mean weight and mean total length of sand seatrout decreased from 1983-84 to 1985-86 (Appendix G, Tables G.10, G.13). Mean catch rates, mean weights and mean total lengths by species, bay system, year, season and day type are presented in Appendix G, Tables G.7-G.8, G.11-G.12 and G.14-G.15. "Other" species included predominantly southern kingfish, silver seatrout (Cynoscion nothus) and smooth dogfish (Mustelus canis) (Appendix G, Table G.16).

The majority (75-76%) of headboat fishing trips were made by fishermen from adjacent coastal and non-coastal counties in all years (Appendix G, Tables G.17-G.19). The coastwide mean fishing-party size was highest on high-use season weekend days in both years (32.9-41.5 people) (Appendix G, Table G.20). The annual coastwide mean fishing time ranged from 2.4 h in 1984-85 to 3.0 h 1983-84.

#### Texas Territorial Sea

##### Private-boat fishing

Since 1982, nearly 5,900 private-boat fishermen fishing in the TTS have been interviewed (Appendix H, Table H.1). Annual coastwide pressure ranged from 149,800 man-h in 1984-85 to 313,600 man-h in 1983-84 (Appendix H, Table H.2). Annual coastwide landings in 1985-86 (39,809 fish) decreased 63% since 1982-83 (107,300 fish) (Appendix H, Table H.3). Sand seatrout comprised 21% of the landings in 1985-86. Over 73% of the 1985-86 coastwide landings occurred during the high-use season (Appendix H, Tables H.4-H.5).

Annual coastwide mean catch rates for all species combined ranged from 0.10 fish/man-h 1983-84 to 0.57 fish/man-h 1982-83 (Appendix H, Table H.6). The annual coastwide mean weight and mean total length of sand

seatrout remained stable during the last 3 and 4 years, respectively (Appendix H, Tables H.9, H.12). Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix H, Tables H.7-H.8, H.10-H.11 and H.13-H.14. Primary species included in the "other" category varied by year, season and day type (Appendix H, Table H.15).

The majority (77-84%) of private-boat fishing trips in the TTS were made by fishermen from adjacent coastal and non-coastal counties in all years (Appendix H, Tables H.16-H.18). The annual coastwide mean fishing-party size (2.9-3.1 people) and mean trip length (5.9-6.4 h) remained stable (Appendix H, Table H.19).

#### Party-boat fishing

Since 1983, 214 party-boat fishermen fishing in the TTS have been interviewed (Appendix I, Table I.1). Annual coastwide pressure decreased 60% from 1983-84 (46,500 man-h) to 1985-86 (18,600 man-h) while landings decreased 73% (20,700 to 5,600 fish) (Appendix I, Tables I.2-I.3). King mackerel (Scomberomorus cavalla) comprised 45-48% of the landings in all years. Nearly 45% of the annual coastwide landings occurred in the low-use season in 1984-85, however, no pressure or landings occurred in the low-use season in 1983-84 and 1985-86 (Appendix I, Tables I.4-I.5).

Annual coastwide mean catch rates decreased from 1983-84 to 1984-85 for king mackerel (0.20 to 0.08 fish/man-h) and for all species combined (0.45 to 0.18 fish/man-h) but increased in 1985-86 (0.14 and 0.30 fish/man-h, respectively) (Appendix I, Table I.6). No comparable annual estimates of pressure or landings were available prior to May 1983, however, mean catch rates for selected species for summer months (June-August) from the entire Gulf of Mexico off Texas during 1979-1985 are presented in Appendix I, Table I.9. Coastwide mean catch rates during the summer for all species combined ranged from 0.21 fish/man-h in 1984 to 0.69 fish/man-h in 1981. The annual coastwide mean weight and mean total length of king mackerel decreased from 1983-84 (9.05 kg/fish and 985 mm/fish) to 1984-85 (5.90 kg/fish and 860 mm/fish) but increased in 1985-86 (8.73 kg/fish and 980 mm/fish) (Appendix I, Table I.10, I.13). Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix I, Tables I.7-I.8, I.11-I.12 and I.14-I.15. "Other" species in 1985-86 included primarily Crevalle jack (Caranx hippos), dolphin (Coryphaena hippurus) and little tunny (Euthynnus alletteratus) (Appendix I, Table I.16).

Non-coastal counties were the residential origin of the highest percentage of party-boat fishing trips each year (43-64%) (Appendix I, Tables I.17-I.19). The annual coastwide mean fishing-party size ranged from 3.4 to 4.5 people in all years while mean trip length ranged from 5.5 h to 6.8 h (Appendix I, Table I.20).

#### Fishery Conservation Zone

##### Private-boat fishing

Since 1982, nearly 5,400 private-boat fishermen in the FCZ have been interviewed (Appendix J, Table J.1). Annual coastwide pressure decreased

from 260,300 man-h in 1982-83 to 169,700 man-h in 1984-85 then increased to 267,500 man-h in 1985-86 (Appendix J, Table J.2). Annual coastwide landings also decreased from 1982-83 (124,800 fish) to 1984-85 (51,200 fish) then increased in 1985-86 (72,100 fish) (Appendix J, Table J.3). Red snapper comprised 31-57% of the annual coastwide landings since 1982. High-use season landings accounted for 59-90% of the annual landings since 1982 (Appendix J, Tables J.4-J.5).

Annual coastwide mean catch rates for all species combined declined from 1982-83 (0.48 fish/man-h) to 1985-86 (0.27 fish/man-h) (Appendix J, Table J.6). Red snapper annual coastwide mean weight increased from 0.56 kg/fish in 1983-84 to 1.00 kg/fish in 1985-86 (Appendix J, Table J.9). Annual coastwide total length of red snapper increased from 329 mm/fish to 368 mm/fish from 1983-84 to 1985-86 (Appendix J, Table J.12). Mean catch rates, mean weight and mean total length by species, area, year, season and day type are presented in Appendix J, Tables J.7-J.8, J.10-J.11 and J.13-14. Predominant species included in the "other" category in 1985-86 were dolphin, little tunny and silver seatrout (Appendix J, Table J.15).

The majority (75-87%) of private-boat fishing trips were made by fishermen from adjacent coastal or non-coastal counties in all years (Appendix J, Tables J.16-J.18). The annual coastwide mean fishing-party size (3.1-3.3 people) and mean trip length (7.3-7.9 h) have remained stable since 1982 (Appendix J, Table J.19).

#### Party-boat fishing

Since 1983, 310 party-boat fishermen fishing in the FCZ have been interviewed (Appendix K, Table K.1). Annual coastwide pressure decreased 85% from 1983-84 (117,100 man-h) to 1985-86 (18,000 man-h) while landings decreased 74% (33,500 to 8,800 fish) (Appendix K, Tables K.2-K.3). King mackerel comprised 40% and 64% of the landings in 1983-84 and 1984-85, respectively, but only 9% in 1985-86. Red snapper comprised 42% of the landings in 1985-86. From 88% to 100% of the landings occurred in the high-use season in all years (Appendix K, Tables K.4-K.5).

Annual coastwide mean catch rates increased from 1983-84 to 1985-86 for all species combined (0.29 to 0.49 fish/man-h) and for red snapper (0.03 to 0.21 fish/man-h), but decreased for king mackerel (0.12 to 0.04 fish/man-h) (Appendix K, Table K.6). The annual coastwide mean weight of king mackerel declined from 1983-84 to 1985-86 (9.49 to 7.43 kg/fish) while that of red snapper increased (0.69 kg/fish to 1.36 kg/fish) (Appendix K, Table K.9). No fish were weighed or measured during the low-use season in any year. Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix K, Tables K.7-K.8 and K.11-K.12. "Other" species in 1985-86 were primarily little tunny, dolphin, greater amberjack (Seriola dumerili) and blackfin tuna (Thunnus atlanticus) (Appendix K, Table K.13).

The majority (50-57%) of party-boat fishing trips were made by fishermen from non-coastal counties in all years (Appendix K, Tables K.14-K.16). The annual coastwide mean fishing-party size ranged from 3.9-4.4 people in all years; mean trip length decreased from 8.7 h to 7.0 h from 1983-84 to 1985-86 (Appendix K, Table K.17).

## DISCUSSION

As participation in the saltwater fishery has increased over the past 11 years, landings have decreased. The apparently large decline in the Texas private-boat landings and catch rates from 1974-76 to later survey years may have been caused by a decline in fish availability as well as more restrictive size and bag limits on selected species. A decline in fish abundance was documented by TPWD fisheries-independent monitoring programs that have been conducted since fall 1975 (McEachron and Green 1984b, 1986). A coastwide decline in sampling gear catch rates was reported for spotted seatrout from 1976 to 1979 and for red drum from 1976 to 1978 and since 1980 (which together comprise nearly half of the private-boat fishermen landings in Texas bays and passes.).

To curb the decline in finfish availability, the Texas Legislature and the Texas Parks and Wildlife Department enacted possession and size limit regulations designed to restrict the harvest of spotted seatrout and red drum (Anonymous 1979, 1981, 1983). The stabilization of mean catch rates for red drum since 1979-80, except for 1984-85, and the increase in mean sizes for these two species since 1979-80 offers encouragement that these regulations are accomplishing their intended purpose.

The Texas coast experienced a severe fish kill due to cold temperatures during late December 1983 and early January 1984 (McEachron et al. 1984b). Preliminary estimates revealed that over 15 million marine organisms were killed. Of these, approximately 567,000 were spotted seatrout, 285,000 were black drum, 183,000 were sheepshead, 160,000 were Atlantic croaker and 90,000 were red drum. The negative effects of this fish kill on the sport-boat fishery in Texas bays and passes are indicated by the results of the present study. Fishing pressure declined dramatically in all bays except the lower Laguna Madre system. Recreational fishing license sales in 1984-85 were at their lowest level since 1978-79. Declines in landings and catch rates from 1983-84 to 1984-85 were particularly dramatic for spotted seatrout. These declines parallel those noted in catch rates of spotted seatrout from the TPWD fisheries-independent monitoring program (McEachron and Green 1986). However, the present study documents a resurgence in 1985-86 of fishing pressure, landings and catch rates of some species, including spotted seatrout and red drum.

Boat fishing pressure is also apparently affected by factors other than fish populations. The declines in fishing pressure in 1976-77 and 1977-78 as compared to 1974-76 may have resulted from the combination of the decline in fishing success during those years and the increasing cost of a fishing trip. Ditton et al. (1980) reported that nearly one-half of fishing trip expenditures for bay private-boat fishermen in the Houston-Galveston area of the Texas coast were for fuel. With a 131% increase in the price of regular gasoline from 1974 through 1980 (U.S. Dept. of Energy 1977, 1980, 1981), fishermen experienced a substantial increase in the cost of an average fishing trip. More economic and sociologic information on sport-boat fishermen is needed to discern their motivations. Additional rigorous statistical analyses are needed to explain fully the reasons for trends presented in this report.



Only recently have landings and effort data for charterboat fishermen been routinely collected (McEachron and Matlock 1983). Various difficulties in surveying charterboat fishermen, such as high mobility and seasonality of the operators and owner noncooperation, have been noted by Fraser et al. (1977) and McEachron (1984). The charter industry, however, has become a significant component of the total sport-boat fishery in Texas and can no longer be ignored (Ditton et al. 1978). Catch rates of charterboat fishermen are appreciably greater than those reported for non-charter fishermen (McEachron 1984, Osburn and Ferguson 1985a, 1986; Trent 1976) principally due to the fish guides' greater knowledge of "good" fishing areas (Caillouet and Higman 1978). The demonstrated success of the charter fishery coupled with the increasing number of boats in the industry emphasizes the need to continue monitoring the landings and effort of charterboat fishermen.

This study presents pressure and landings estimates, as well as the variance associated with those estimates, for all strata of sport-boat fishermen in Texas marine waters. These estimates, however, should be considered minimum estimates since they do not include Sabine Lake fishing and night-time private- and party-boat fishing. There are also sites where boats can dock, but TPWD has no access to conduct surveys (e.g., condominiums and private residences) (Ferguson and Green In press). There is also a lack of adequate data to monitor the fishing pressure and landings of shore-based fishermen in Texas (e.g., wade/bank, piers, jetties). McEachron et al. (1981) found that these shore-based strata accounted for 33-36% of the coastwide sport-fishing landings. Resolutions of these limitations in the sport-boat monitoring program are currently being pursued, as well as methods to improve survey efficiency.

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Table 1. Sport-fishing pressure (man-h x 1000) and finfish landings (No. x 1000) by strata, area fished and season (1983-1986).

Year Area Strata	High use		Low use		Annual <sup>a</sup>	
	Pressure	Landings	Pressure	Landings	Pressure	Landings
1983-84						
Bay and Pass						
Private boat	4472.0	2092.6	1176.1	392.0	5648.7	2484.6
Party boat	205.7	239.6	44.3	22.2	249.9	261.8
Headboat	159.7	124.2	29.2	7.1	188.9	131.3
Total	4837.4	2456.4	1250.2	421.3	6087.5	2877.7
Territorial Sea						
Private boat	282.6	25.0	30.9	7.7	313.6	32.7
Party boat	46.5	20.7	0.0	0.0	46.5	20.7
Total	329.1	45.7	30.9	7.7	360.1	53.4
Fishery Conservation Zone						
Private boat	174.5	73.1	23.4	8.3	197.9	81.3
Party boat	117.1	33.5	0.0	0.0	117.1	33.5
Total	291.6	106.6	23.4	8.3	315.0	114.8
Grand Total <sup>a</sup>	5458.1	2608.7	1315.7	437.3	6762.6	3045.9
1984-85						
Bay and Pass						
Private boat	2705.3	1059.5	1376.5	402.8	4081.8	1462.3
Party boat	89.6	41.8	37.9	25.7	127.6	67.6
Headboat	103.5	65.6	30.4	8.9	134.0	74.6
Total	2898.4	1166.9	1444.8	437.4	4343.4	1604.5
Territorial Sea						
Private boat	127.3	20.9	22.5	21.9	149.8	42.8
Party boat	11.4	1.5	4.5	1.3	15.9	2.9
Total	138.7	22.4	27.0	23.2	165.7	45.7
Fishery Conservation Zone						
Private boat	159.9	39.4	9.9	11.8	169.7	51.2
Party boat	26.5	5.8	3.5	0.8	30.0	6.6
Total	186.4	45.2	13.4	12.6	199.7	57.8
Grand Total <sup>a</sup>	3223.5	1234.5	1485.2	473.2	4708.8	1708.0
1985-86						
Bay and Pass						
Private boat	3269.9	1212.6	2208.1	514.8	5477.9	1727.4
Party boat	129.2	69.1	95.7	34.9	224.8	104.0
Headboat	179.5	218.8	30.0	13.3	209.6	232.0
Total	3578.6	1500.5	2333.8	563.0	5912.3	2063.4

Table 1. (Cont'd.)

Year Area Strata	High use		Low use		Annual <sup>a</sup>	
	Pressure	Landings	Pressure	Landings	Pressure	Landings
1985-86 (Cont.)						
Territorial Sea						
Private boat	161.5	29.2	15.3	10.6	176.9	39.8
Party boat	18.6	5.6	0	0	18.6	5.6
Total	180.1	34.8	15.3	10.6	195.5	45.4
Fishery Conservation Zone						
Private boat	253.1	50.9	14.4	21.2	267.5	72.1
Party boat	18.0	8.8	0	0	18.0	8.8
Total	271.1	59.7	14.4	21.2	285.5	80.9
Grand Total <sup>a</sup>	4029.8	1595.0	2363.5	594.8	6393.3	2189.7

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

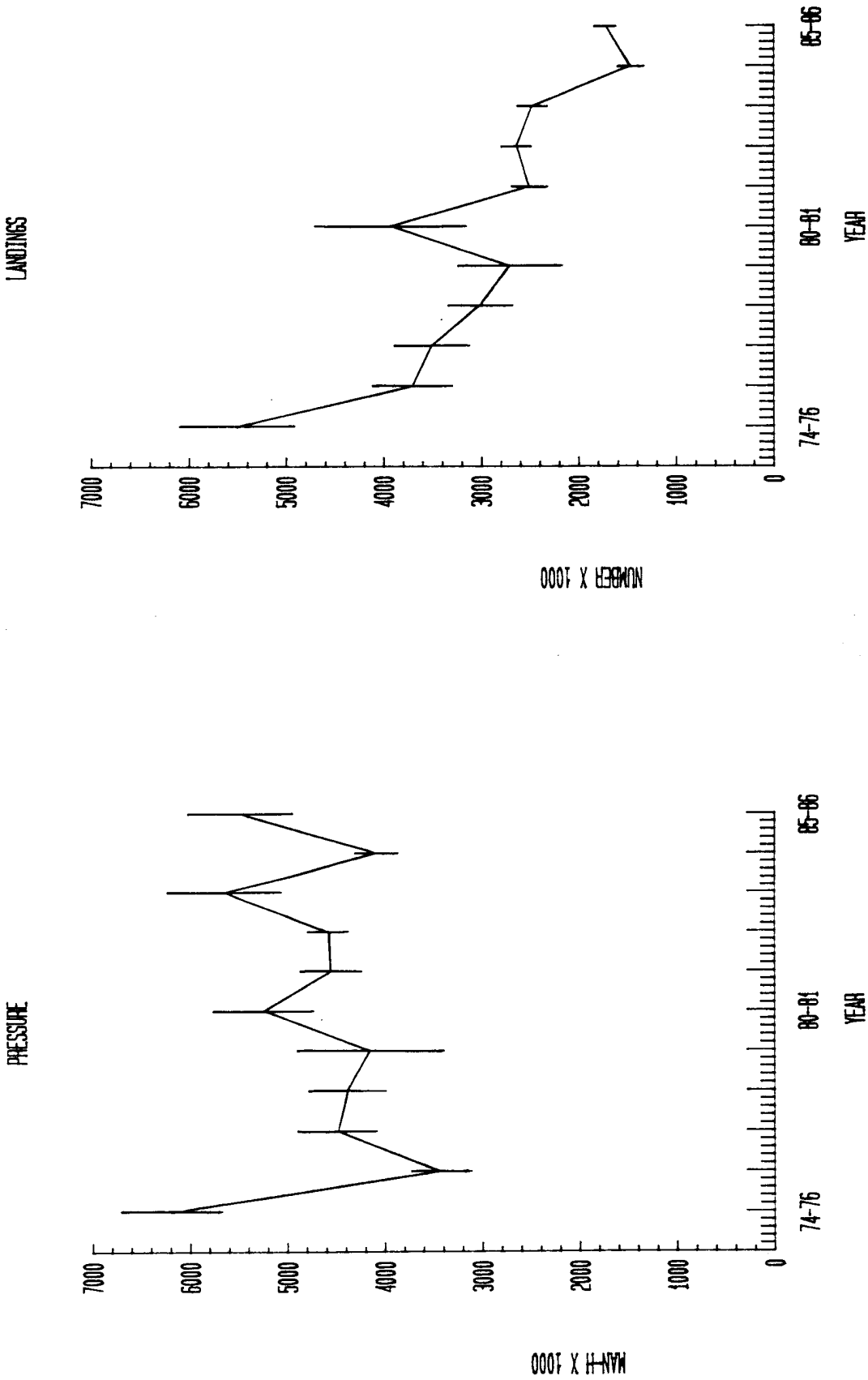


FIGURE 1. COASTWIDE ANNUAL PRIVATE-BOAT FISHING PRESSURE ( $\pm 1$  SE) AND LANDINGS ( $\pm 1$  SE) IN TEXAS BAYS AND PASSES, MAY 1974-MAY 1986.



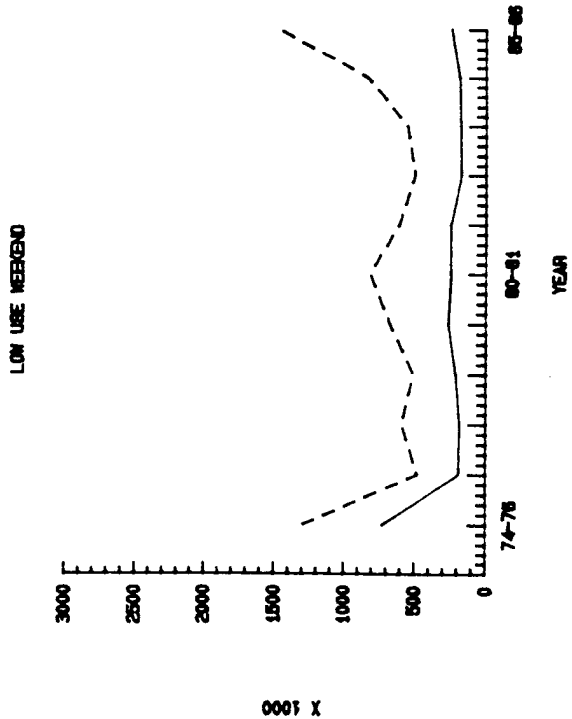
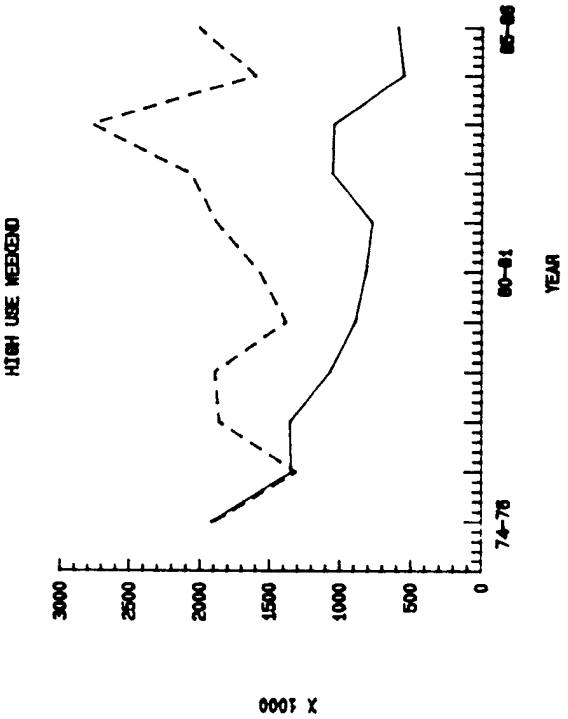
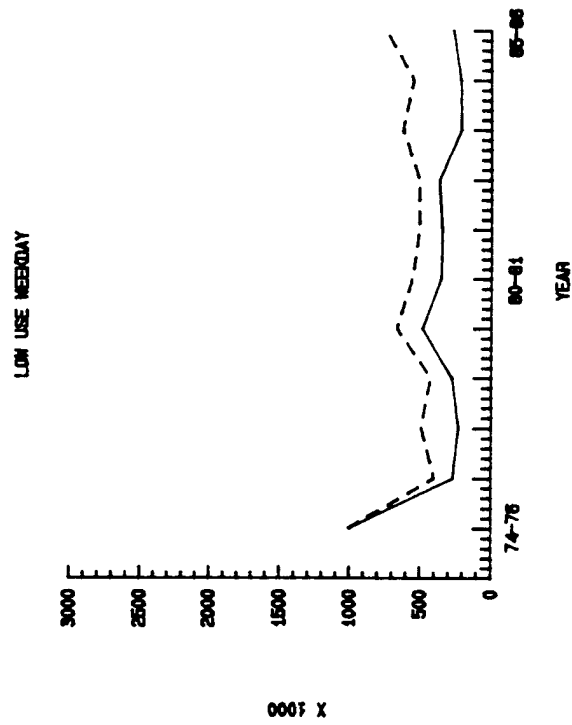
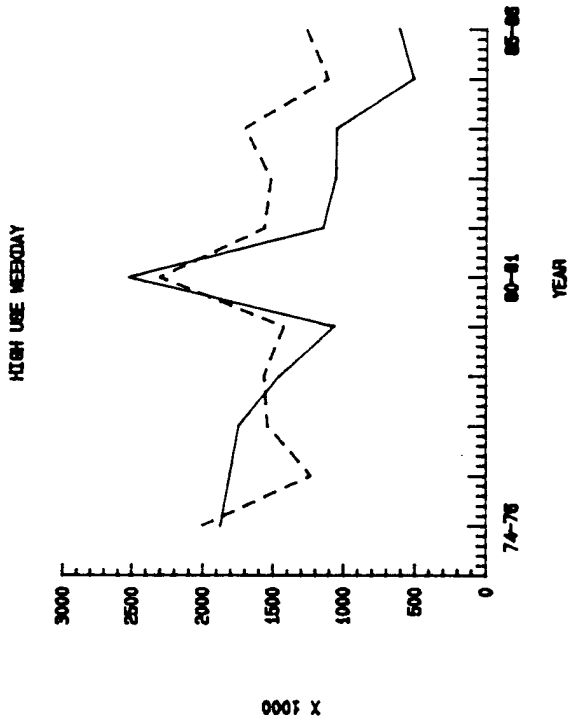


FIGURE 2. COASTWIDE ANNUAL PRIVATE-BOAT FISHING PRESSURE (-----) IN MAN-H AND LANDINGS (——) IN NUMBER OF FINFISH FROM TEXAS BAYS AND PASSES BY SEASON AND DAYTYPE, MAY 1974-MAY 1986.

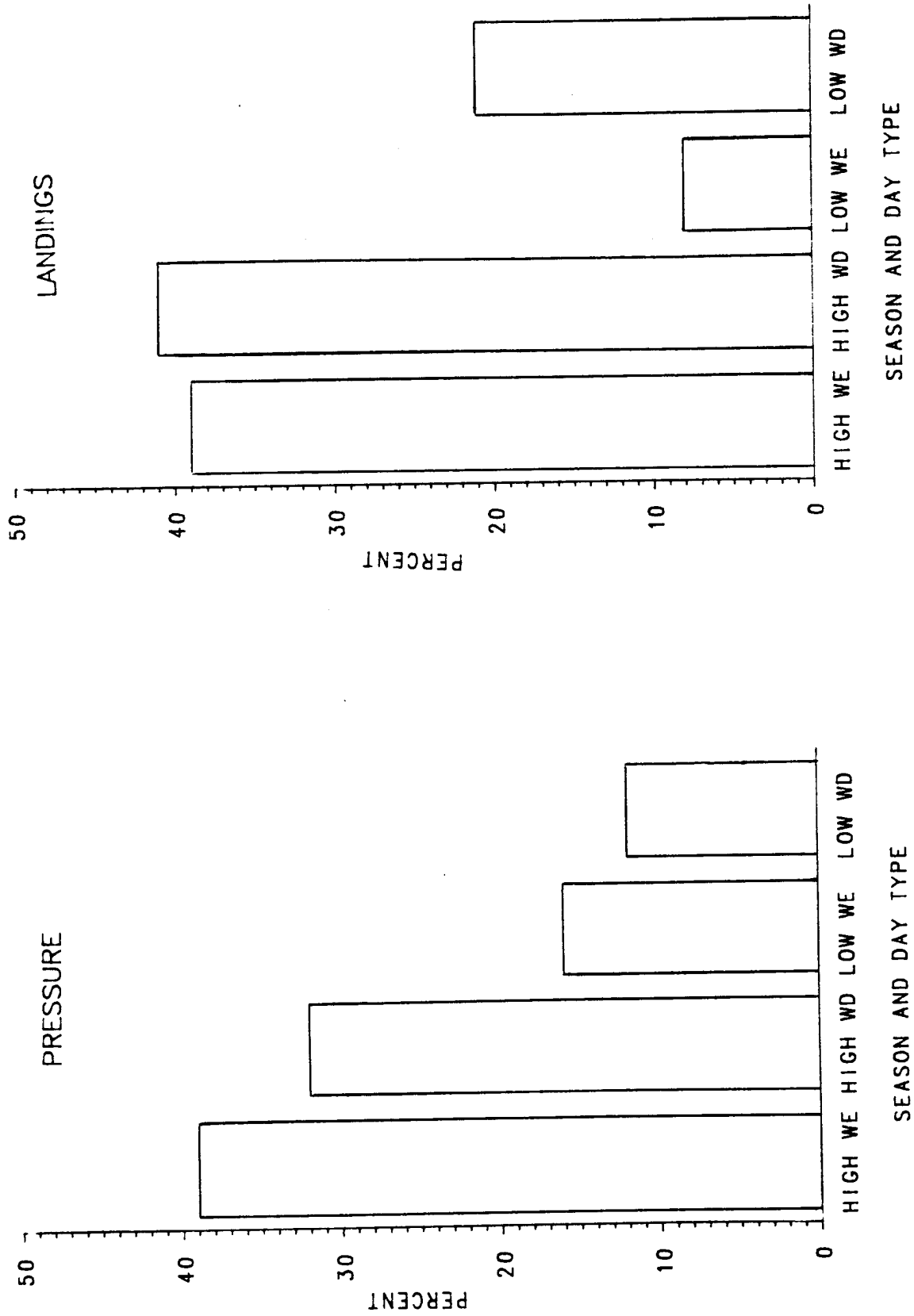


FIGURE 3. PERCENT DISTRIBUTION OF ANNUAL COASTWIDE BAY AND PASS PRIVATE-BOAT FISHING PRESSURE AND LANDINGS BY SEASON AND DAY TYPE, MAY 1979-MAY 1986 (7-YEAR MEAN). WE=WEEKENDS. WD=WEEKDAYS.

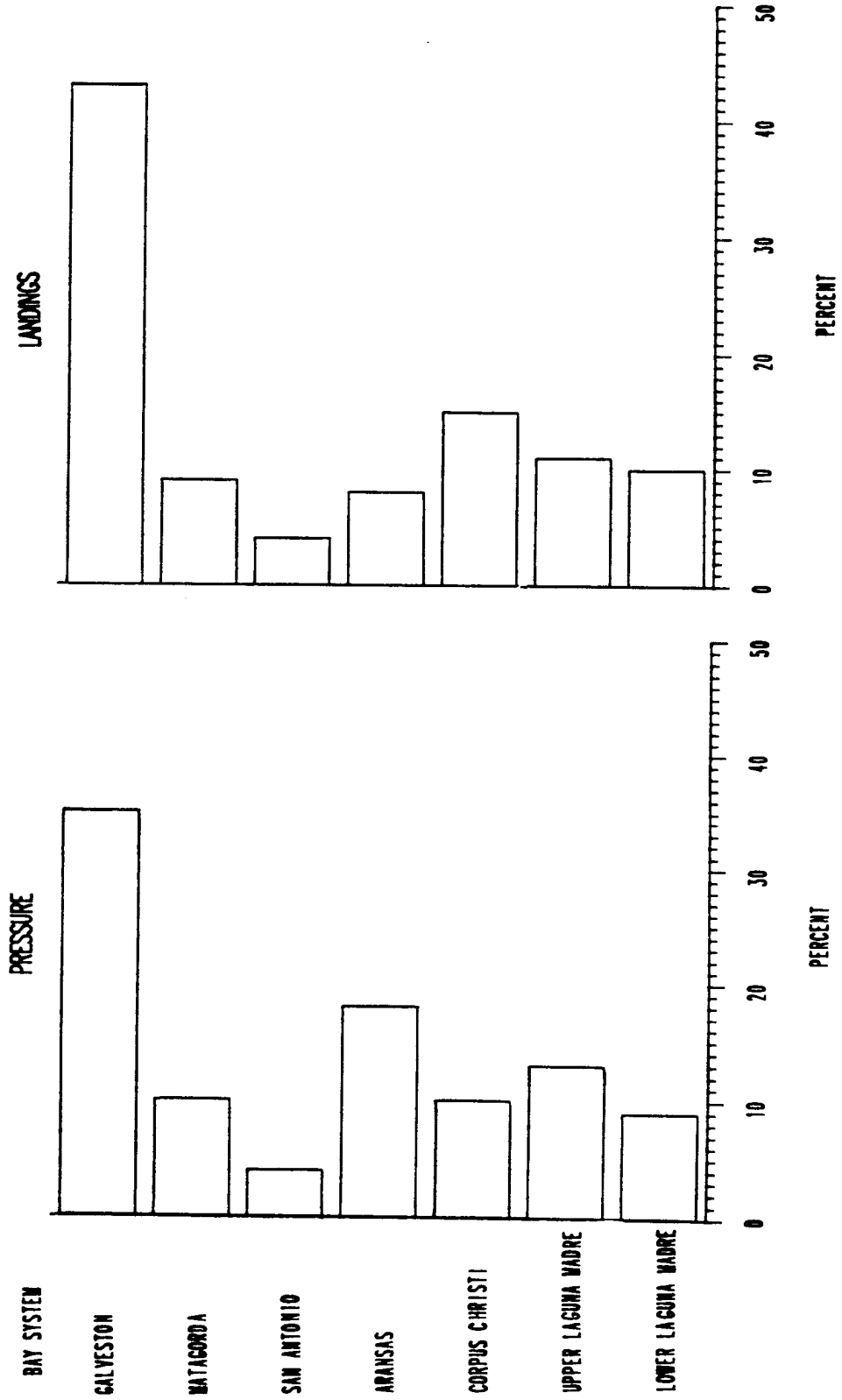


FIGURE 4. PERCENT DISTRIBUTION OF ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE AND LANDINGS AMONG BAY SYSTEMS, MAY 1979-MAY 1986 (7-YEAR MEAN).

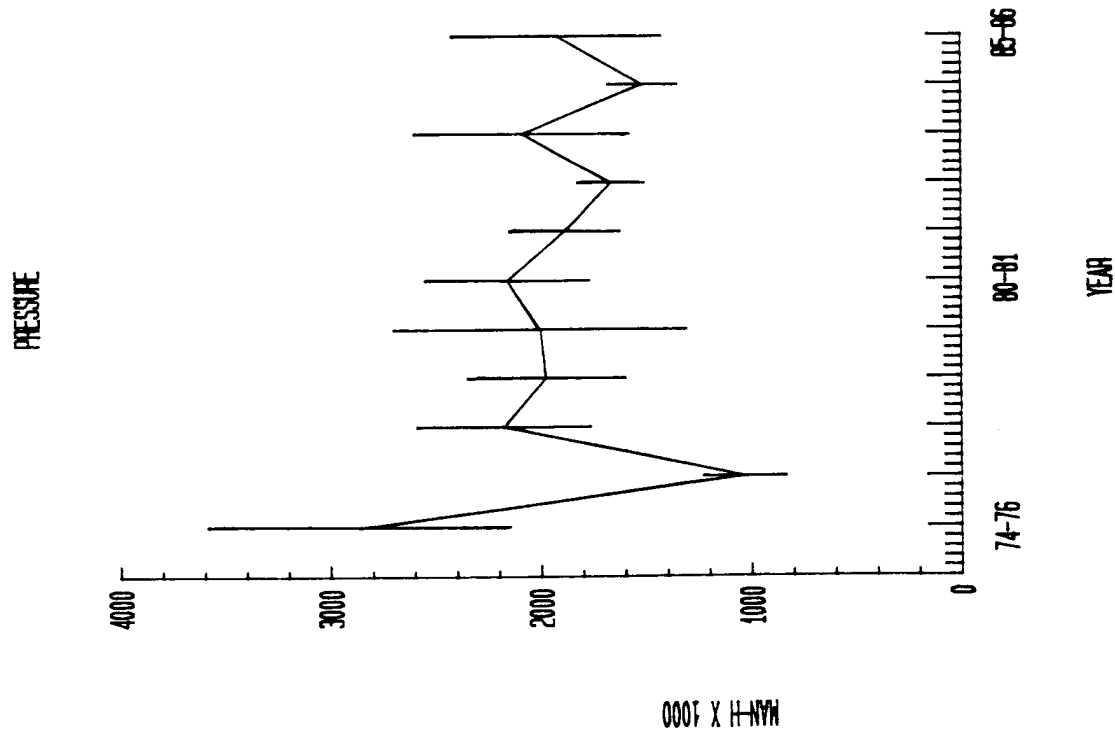
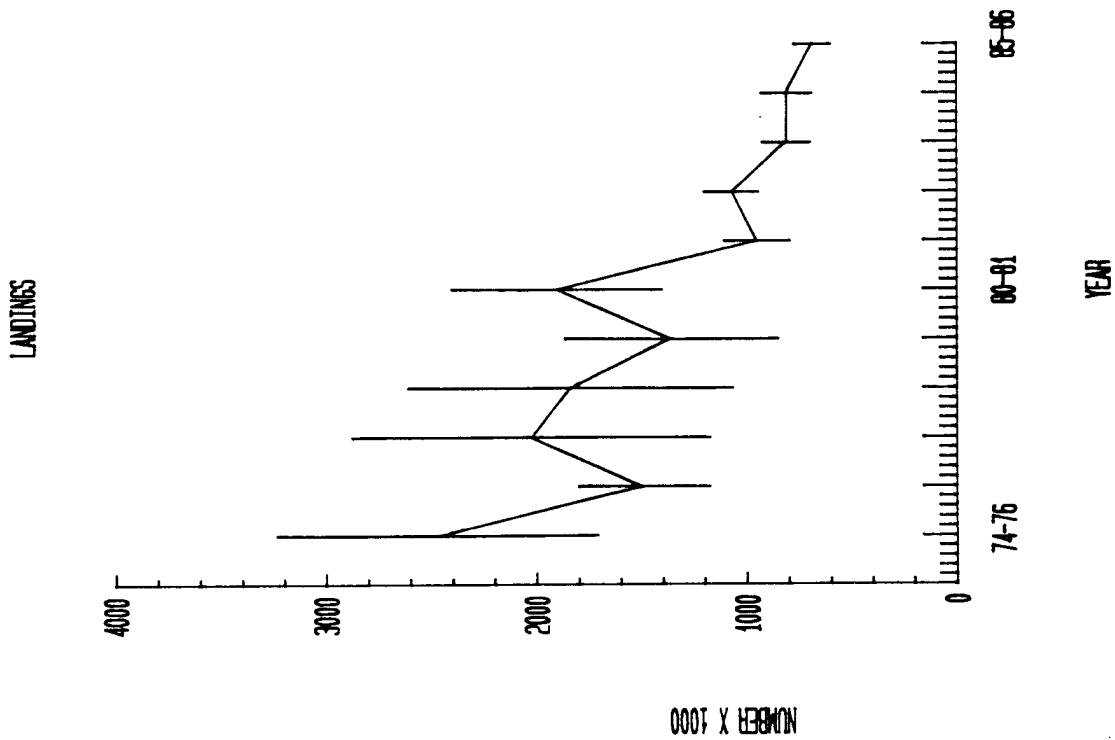
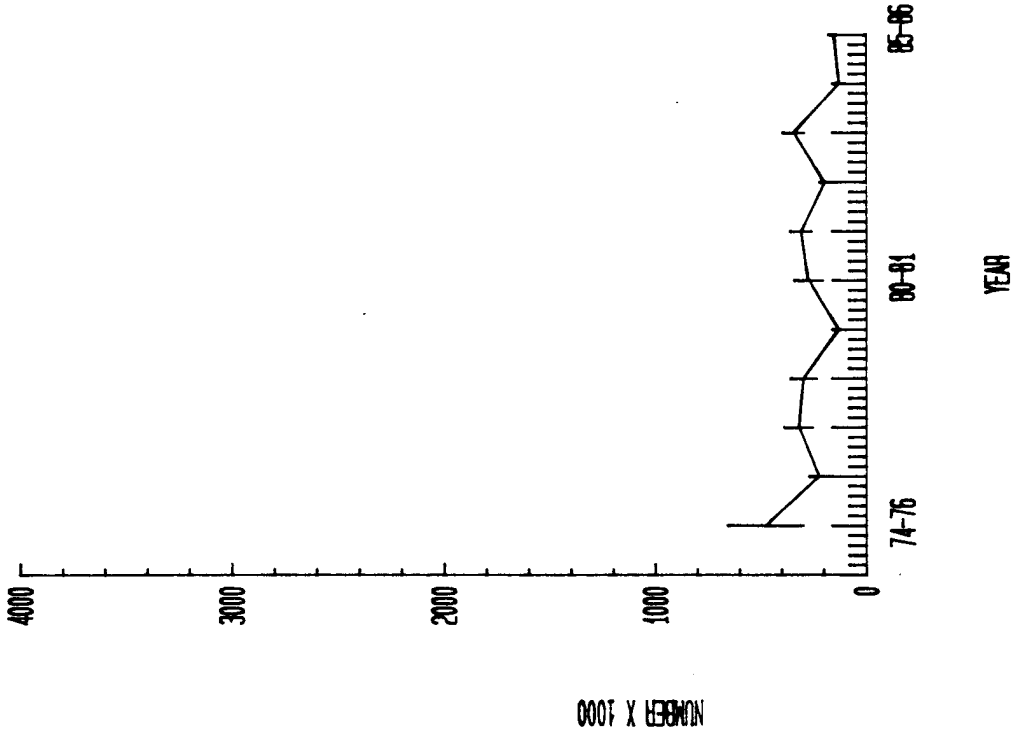


FIGURE 5. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE ( $\pm 1$  SE) AND LANDINGS ( $\pm 1$  SE) FOR THE GALVESTON BAY SYSTEM, MAY 1974-MAY 1986.

LANDINGS



PRESSURE

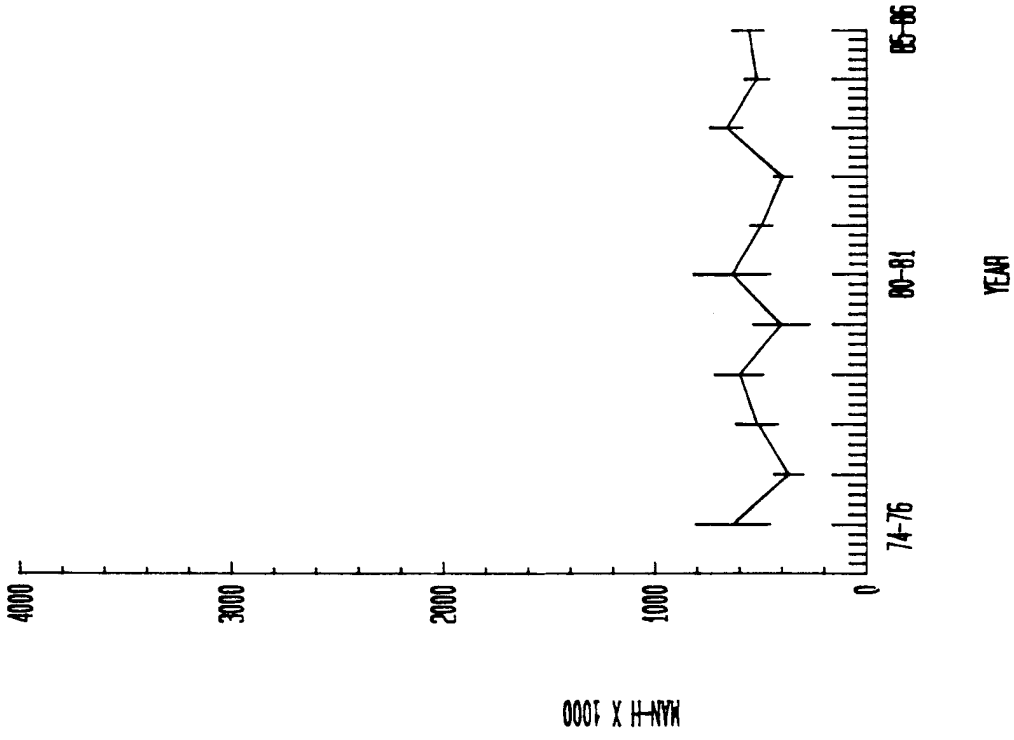
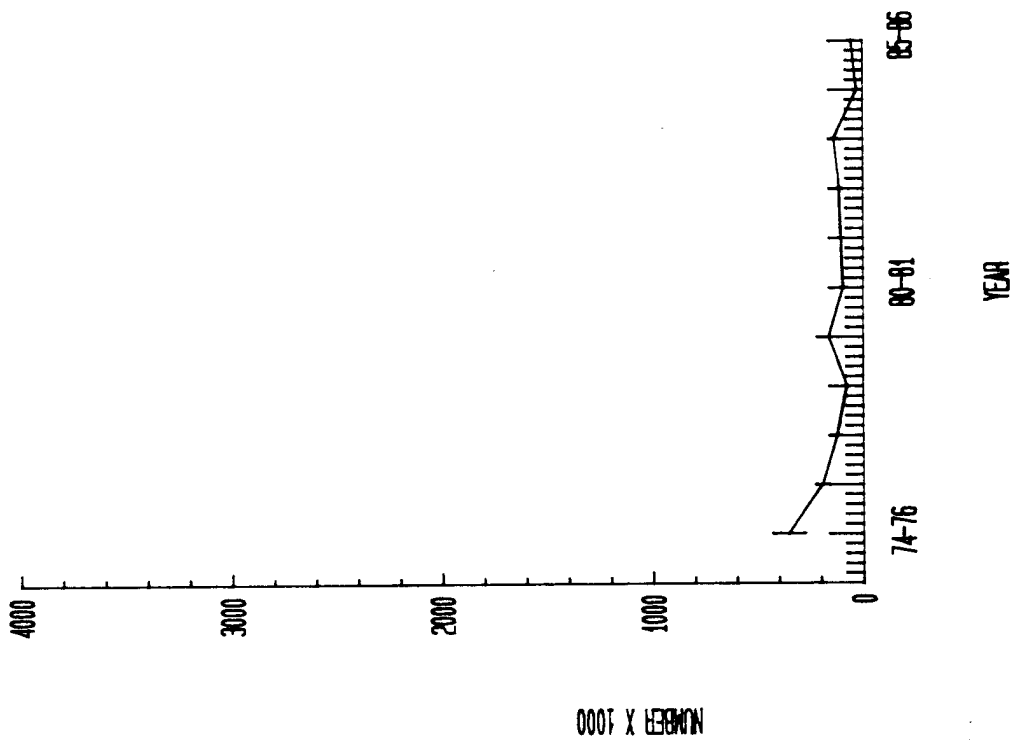


FIGURE 6. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE MATAGORDA BAY SYSTEM, MAY 1974-MAY 1986.

LANDINGS



PRESSURE

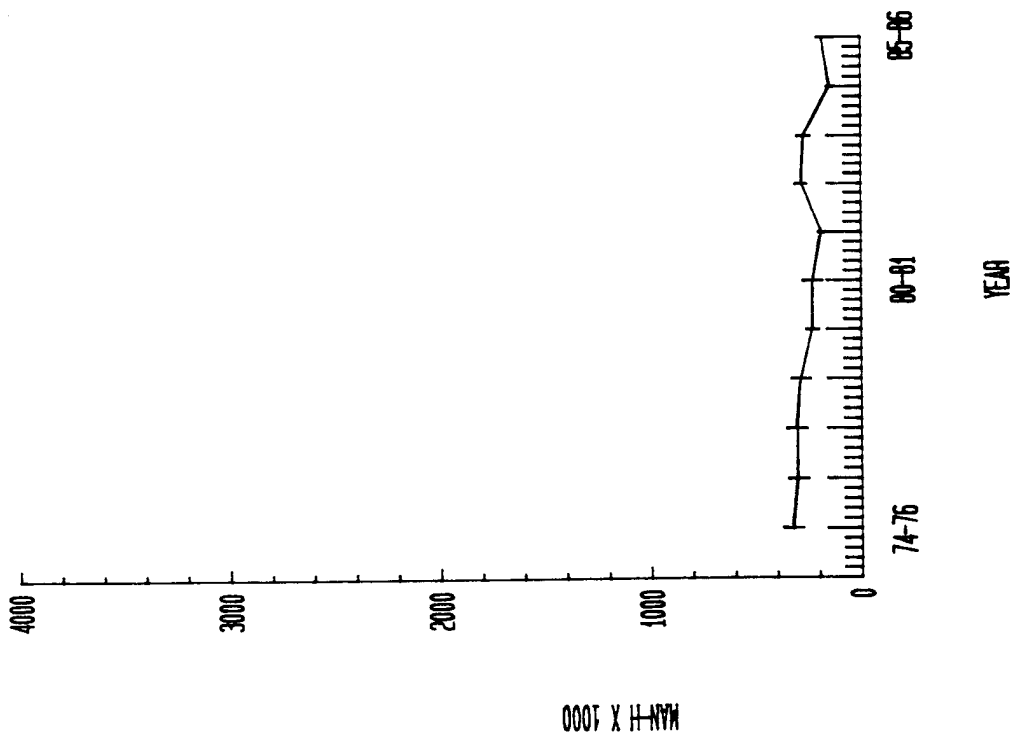
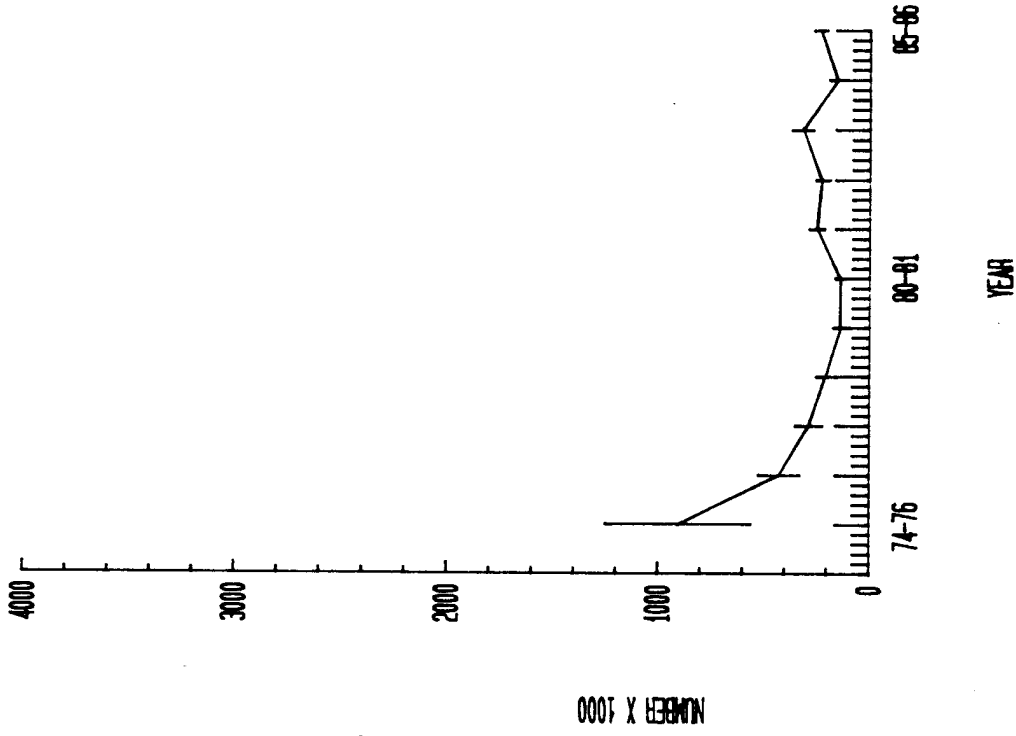


FIGURE 7. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE ( $\pm 1$  SE) AND LANDINGS ( $\pm 1$  SE) FOR THE SAN ANTONIO BAY SYSTEM, MAY 1974-MAY 1986.

LANDINGS



PRESSURE

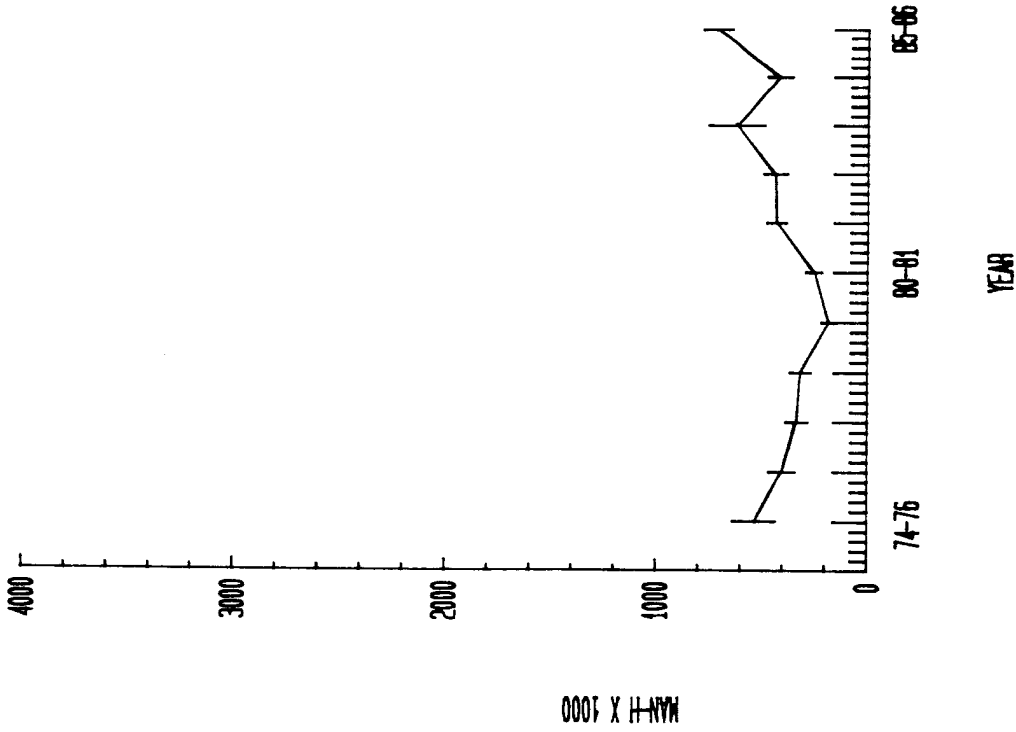
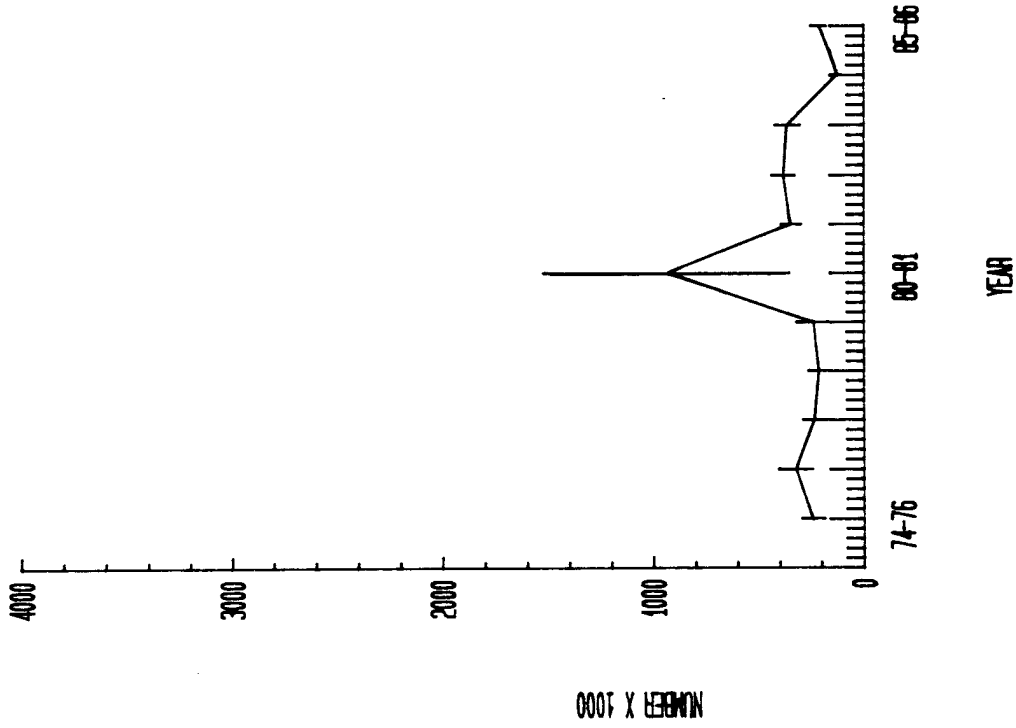


FIGURE 8. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE ( $\pm 1$  SE) AND LANDINGS ( $\pm 1$  SE) FOR THE ARKANSAS BAY SYSTEM, MAY 1974-MAY 1986.

LANDINGS



PRESSURE

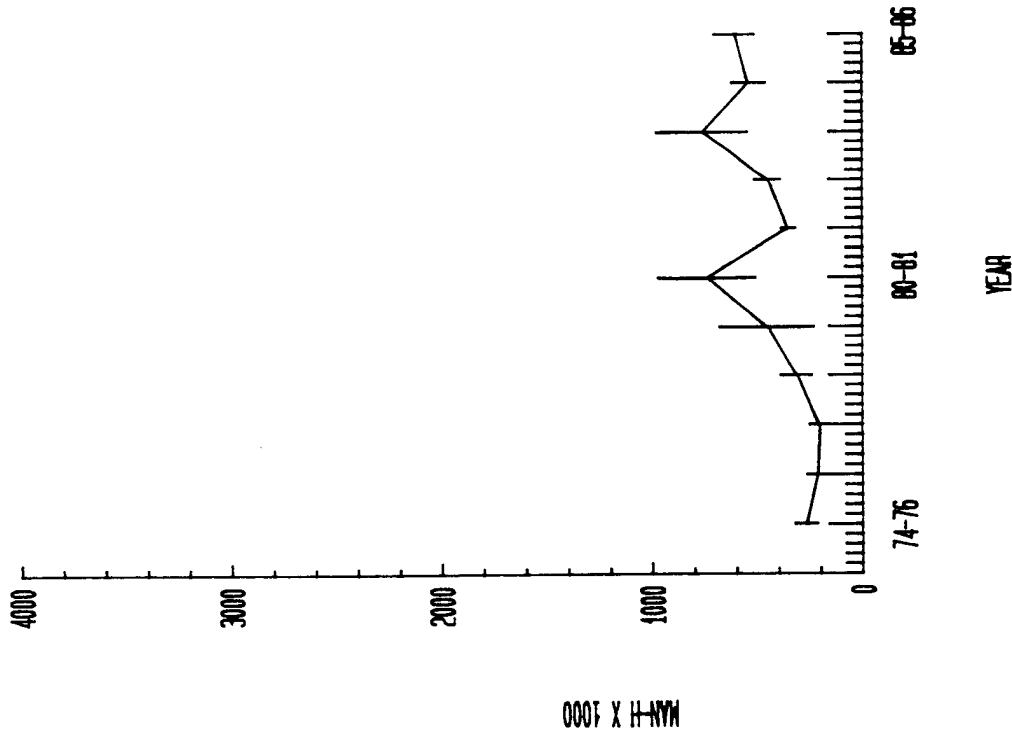
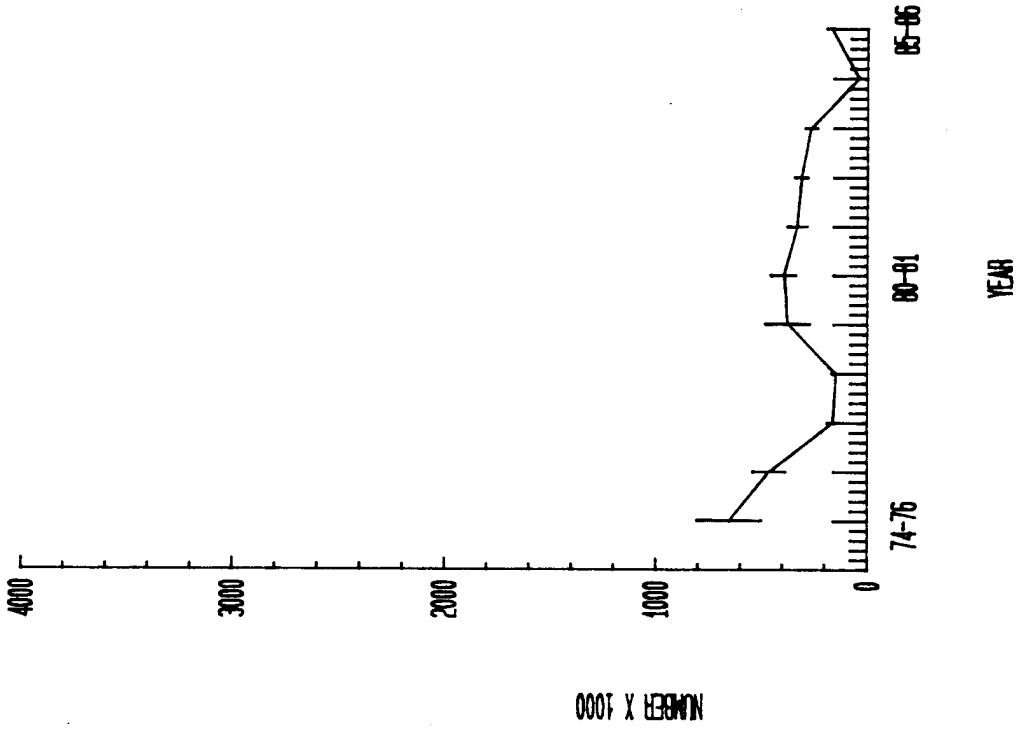


FIGURE 9. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE ( $\pm 1$  SE) AND LANDINGS ( $\pm 1$  SE) FOR THE CORPUS CHRISTI BAY SYSTEM, MAY 1974-MAY 1986.



LANDINGS



PRESSURE

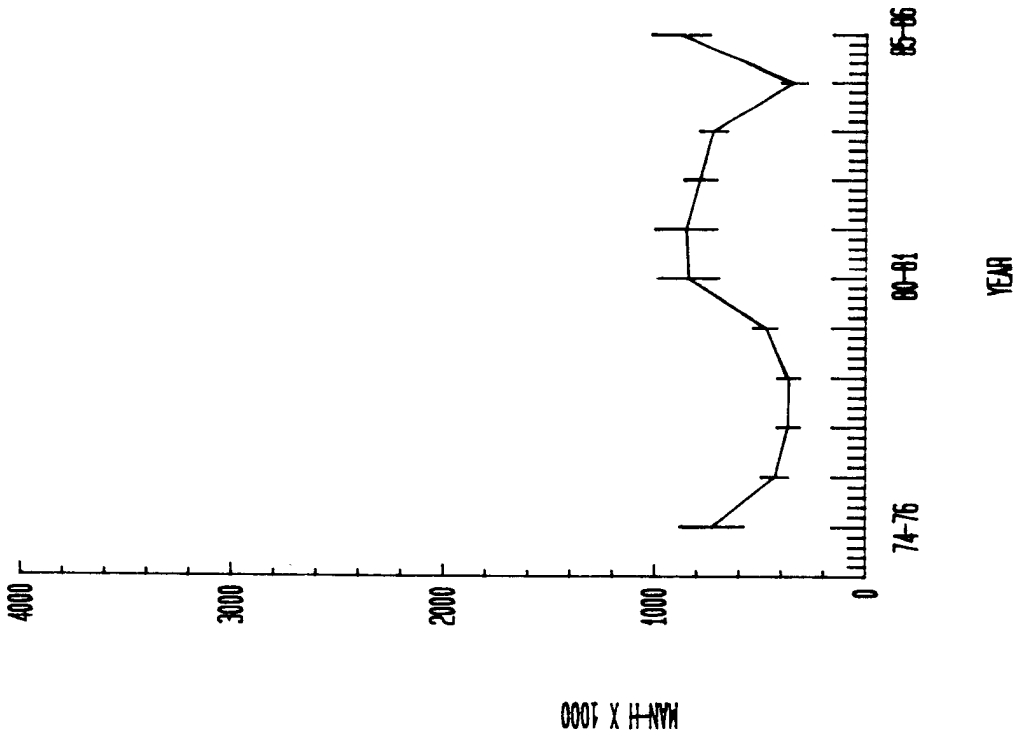


FIGURE 10. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE UPPER LAGUNA MADRE, MAY 1974-MAY 1986.

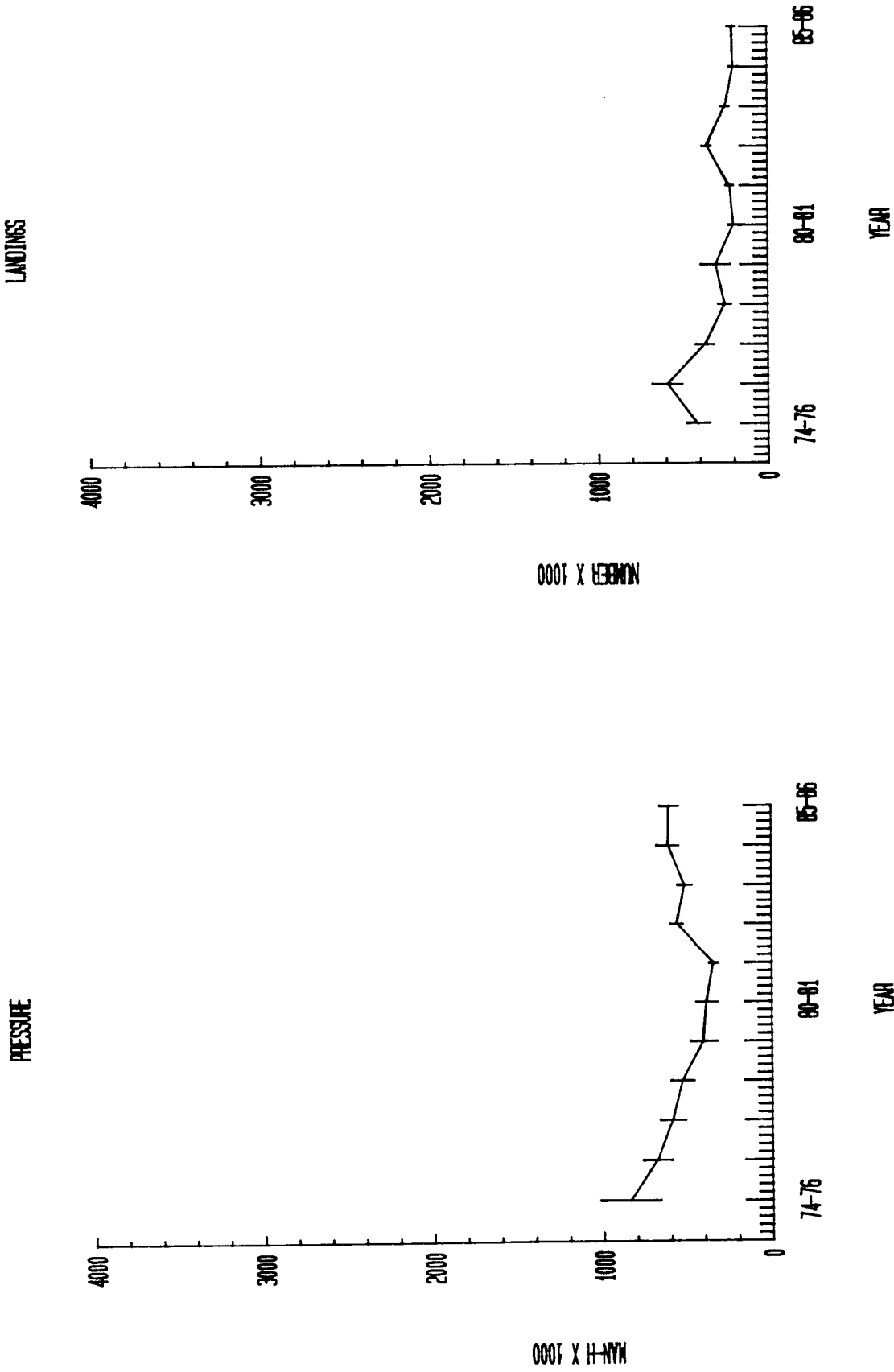


FIGURE 11. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE ( $\pm 1$  SE) AND LANDINGS ( $\pm 1$  SE) FOR THE LOWER LAGUNA MADRE, MAY 1974-MAY 1986.

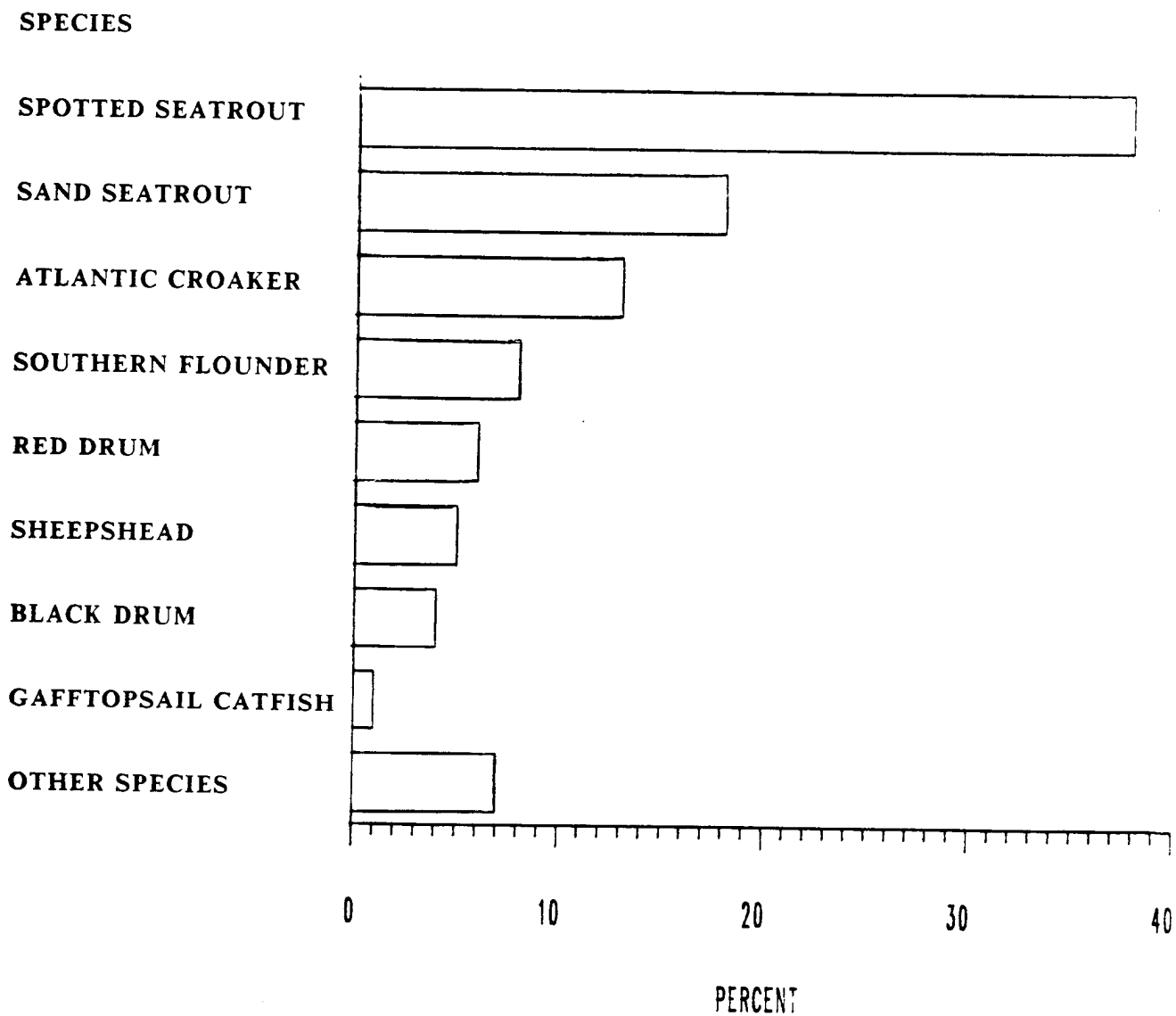


FIGURE 12. SPECIES COMPOSITION (%) OF COASTWIDE ANNUAL BAY AND PASS PRIVATE-BOAT FINFISH LANDINGS, MAY 1979-MAY 1986 (7-YEAR MEAN).

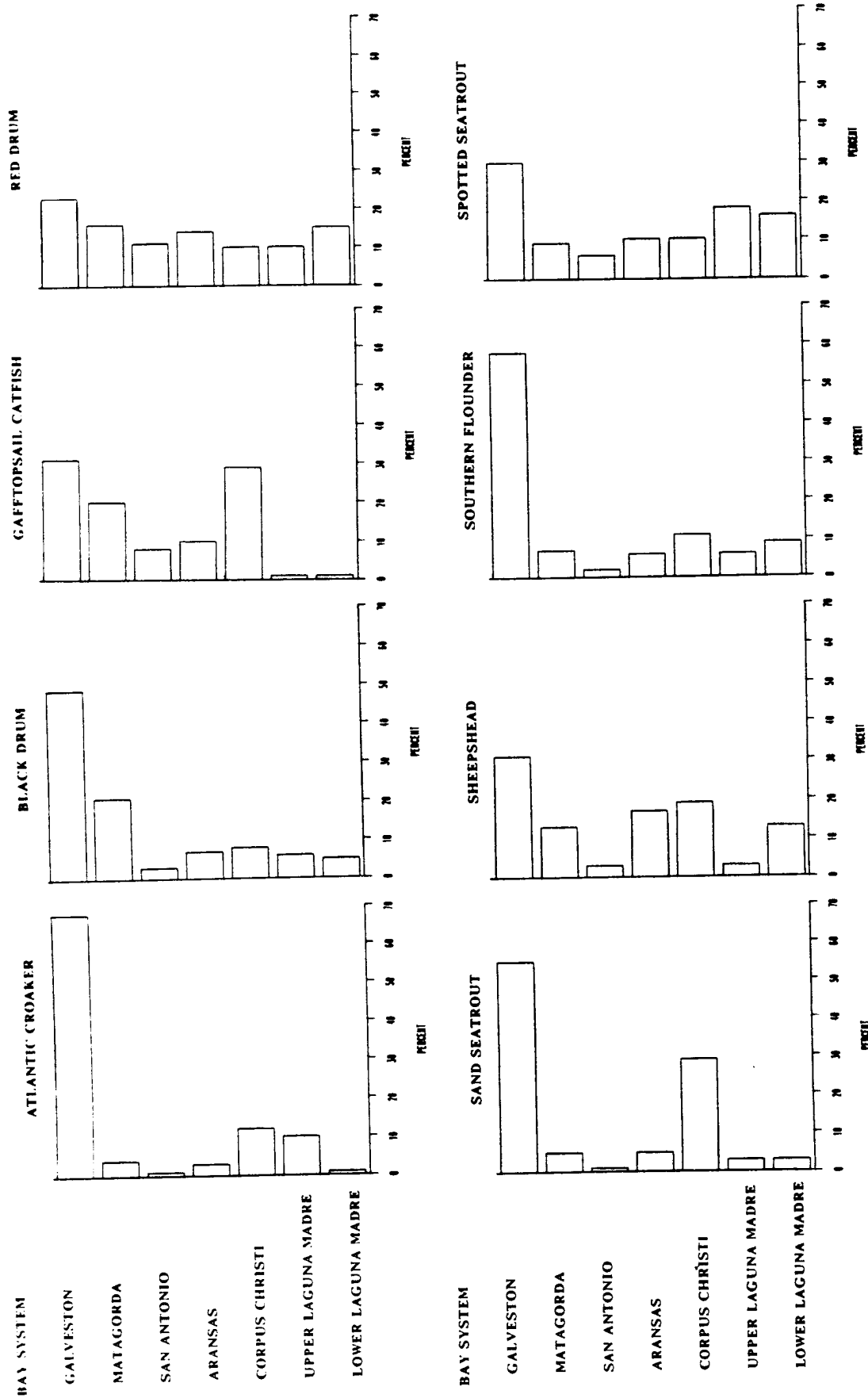


FIGURE 13. DISTRIBUTION (%) OF ANNUAL LANDINGS OF SELECTED FINFISH CAUGHT BY BAY AND PASS PRIVATE-BOAT FISHERMEN AMONG BAY SYSTEMS, MAY 1979-MAY 1986 (7-YEAR MEAN).

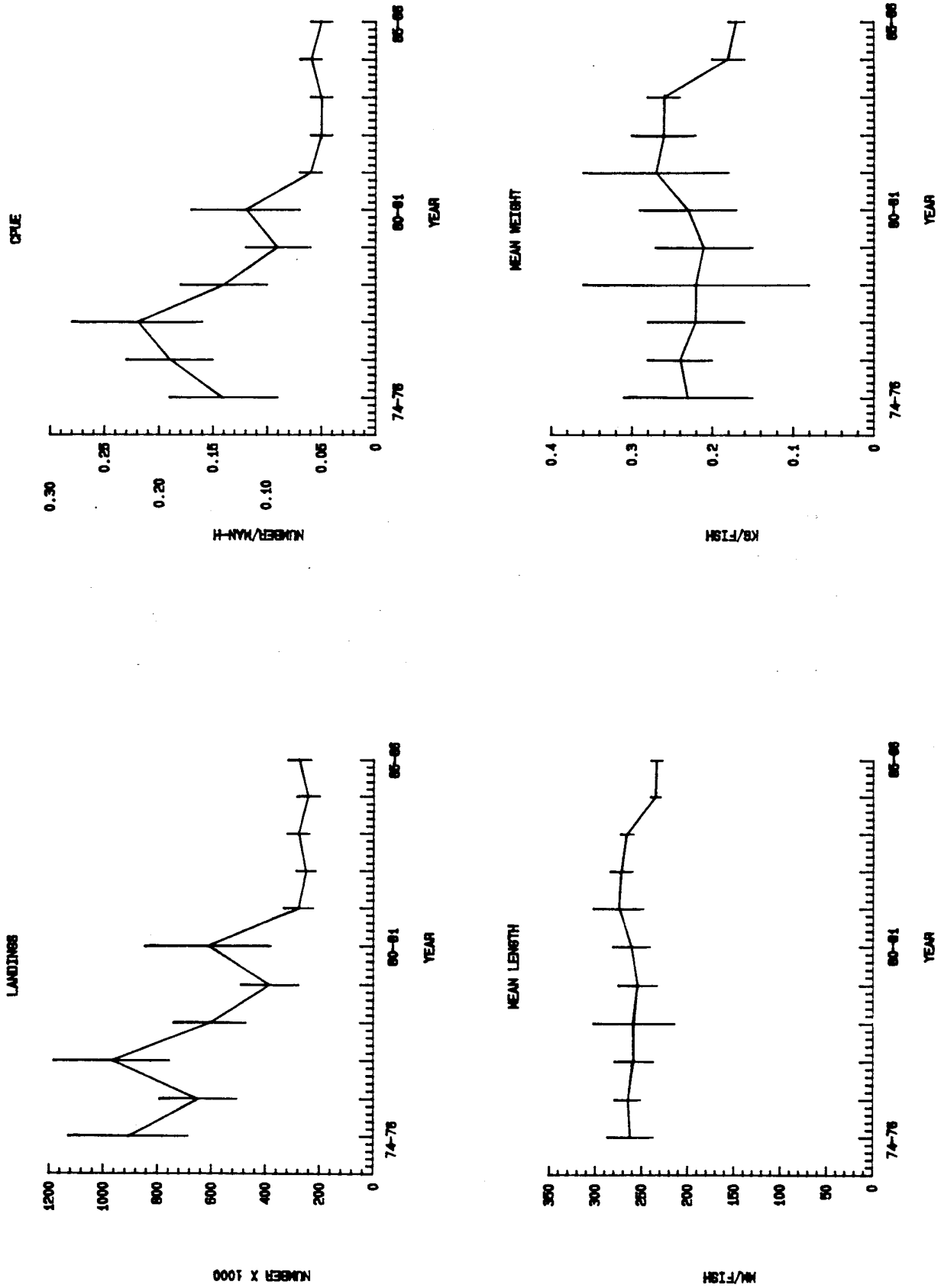


FIGURE 14. COASTWIDE ANNUAL STATISTICS FOR ATLANTIC CROAKER LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

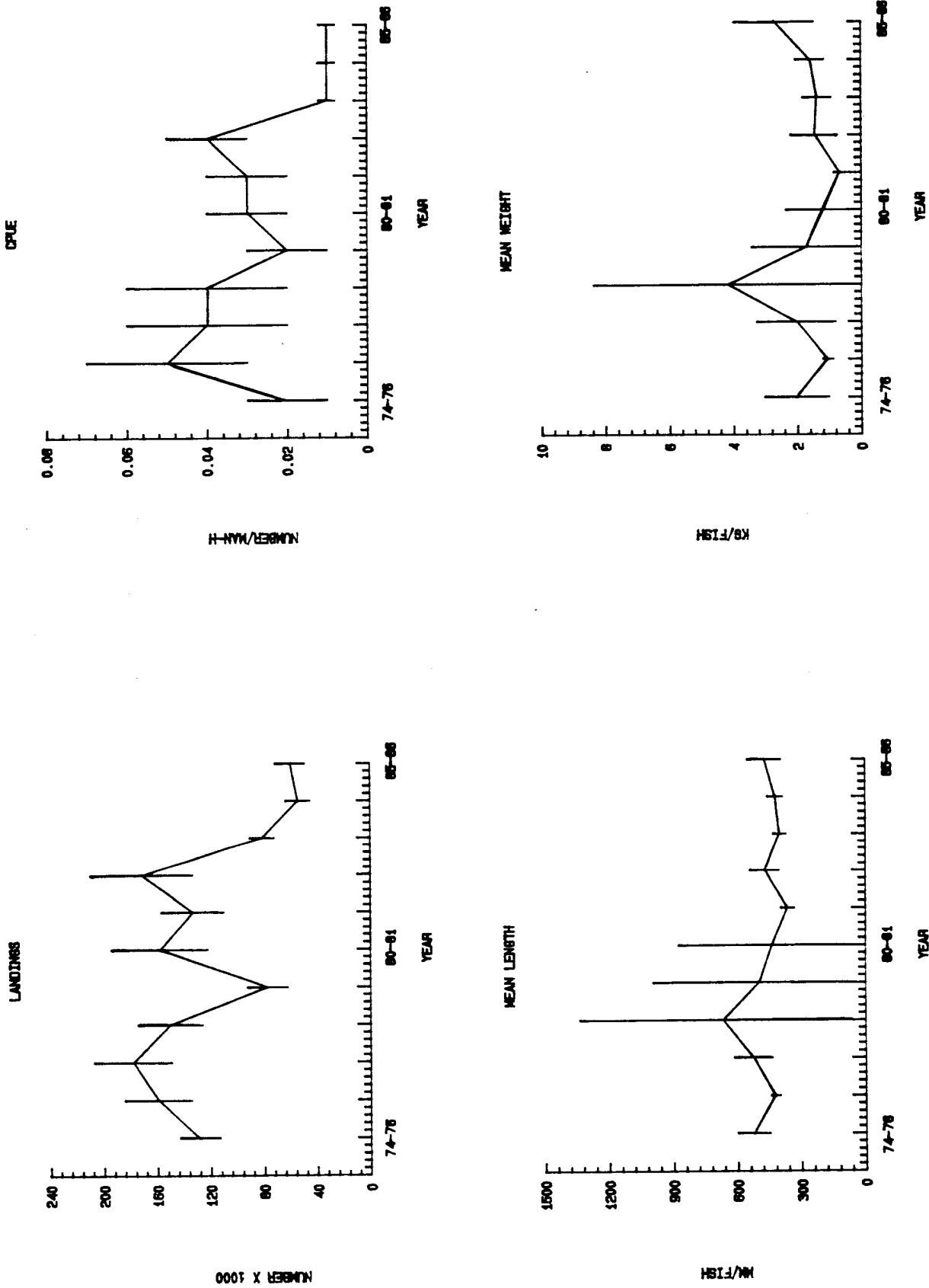


FIGURE 15. COASTWIDE ANNUAL STATISTICS FOR BLACK DRUM LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

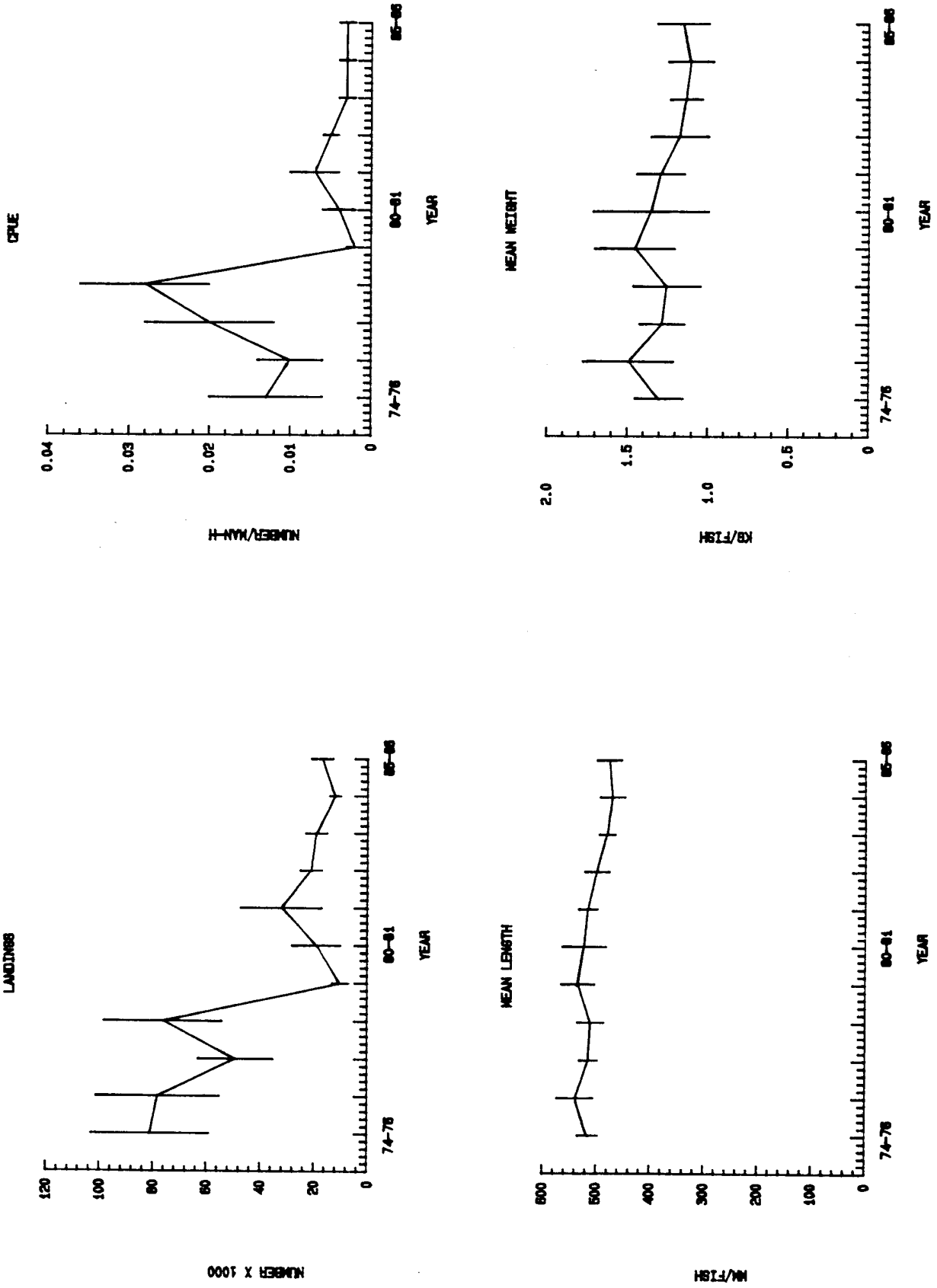


FIGURE 16. COASTWIDE ANNUAL STATISTICS FOR GAFFTOPSAIL CATFISH LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

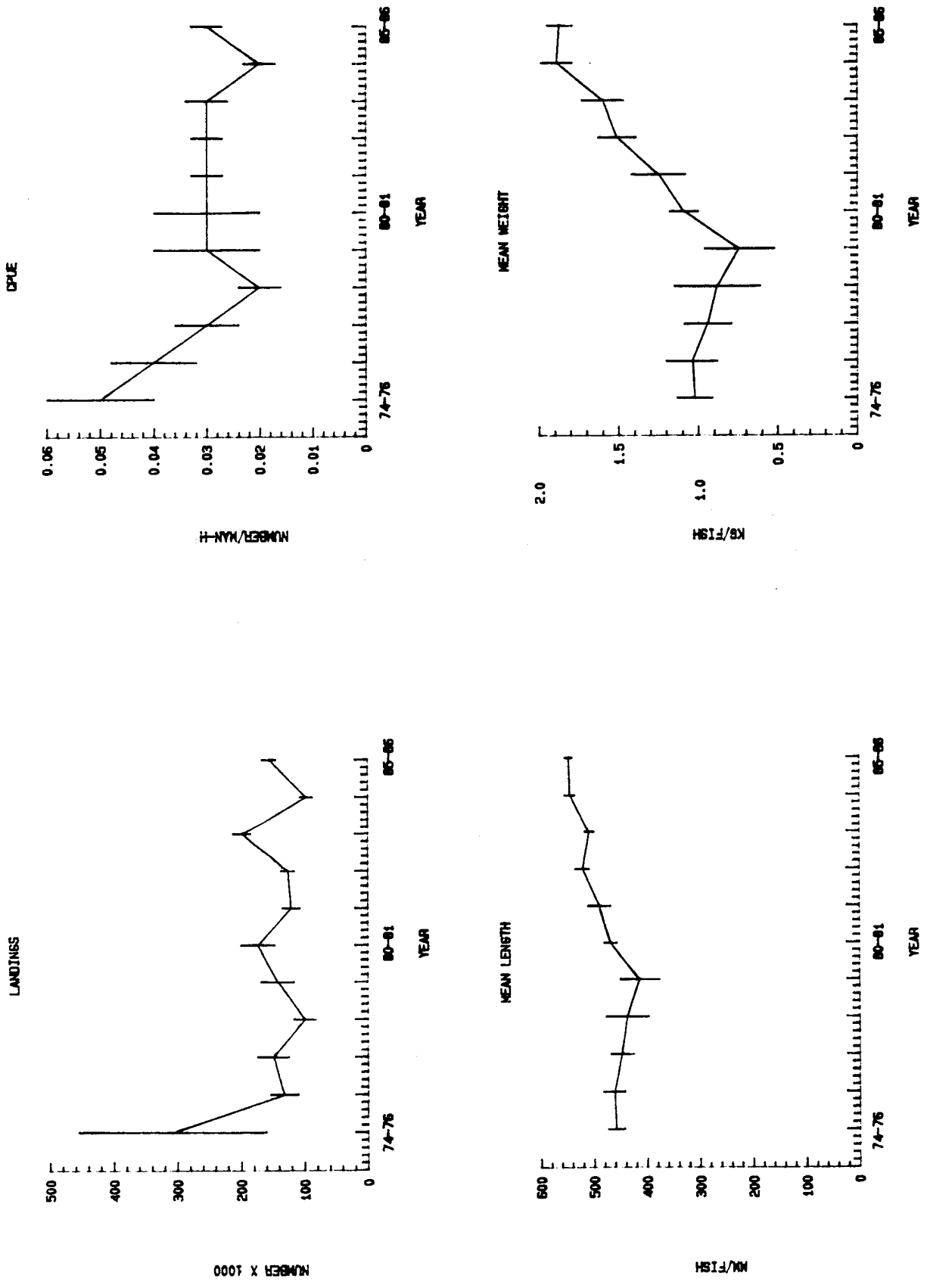


FIGURE 17. COASTWIDE ANNUAL STATISTICS FOR RED DRUM LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.



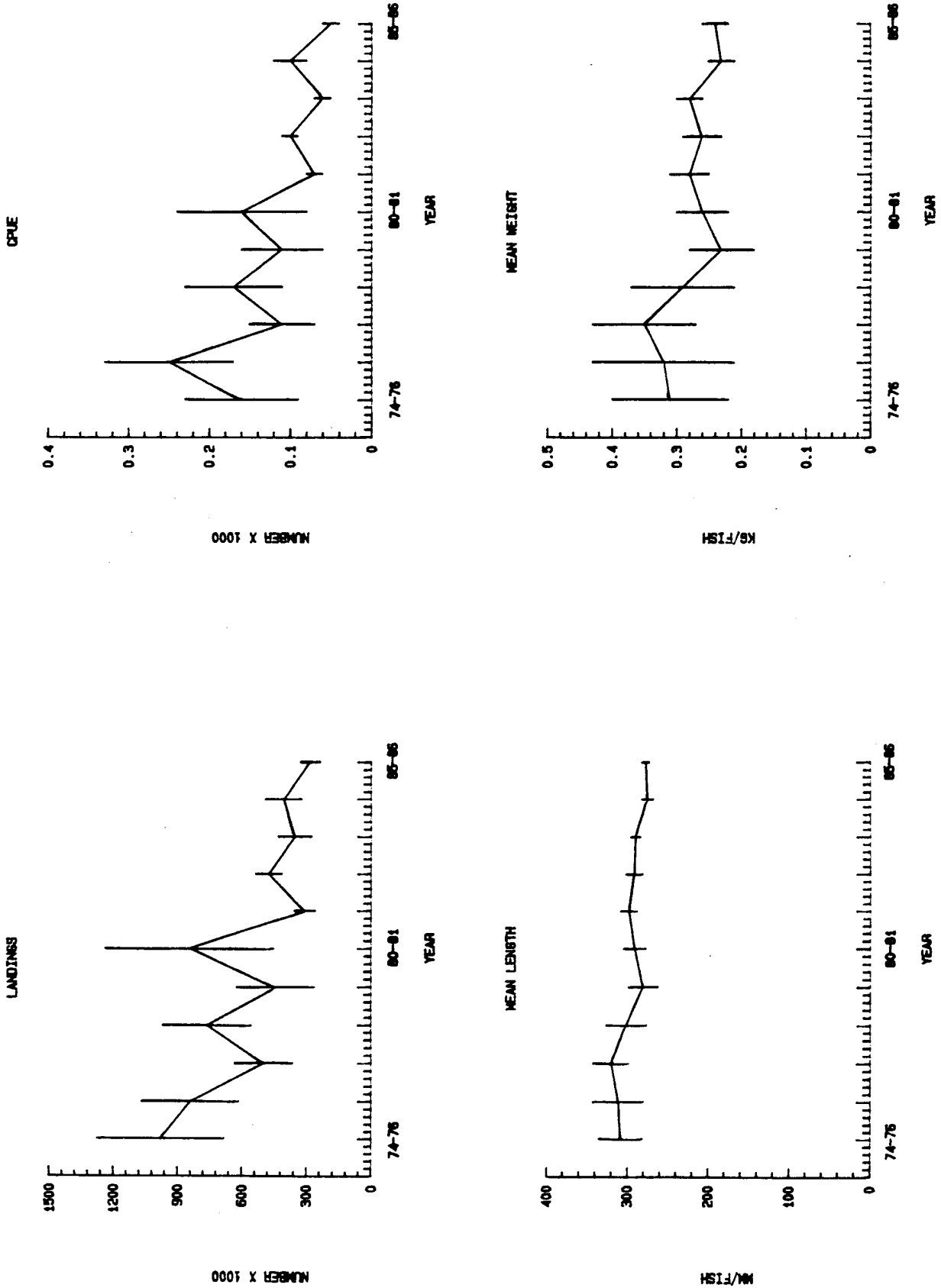


FIGURE 18. COASTWIDE ANNUAL STATISTICS FOR SAND SEATROUT LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

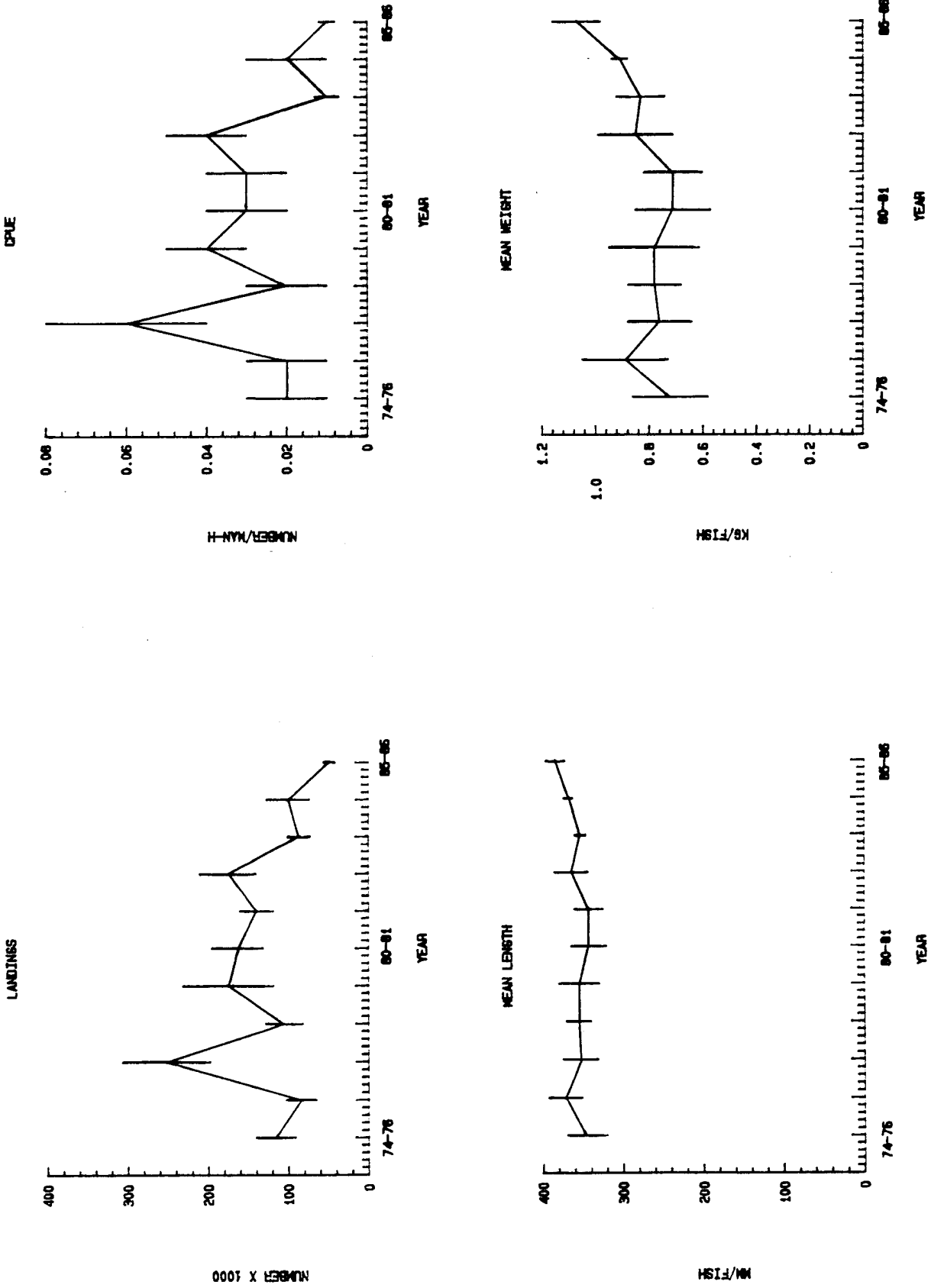


FIGURE 19. COASTWIDE ANNUAL STATISTICS FOR SHEEPSHEAD LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

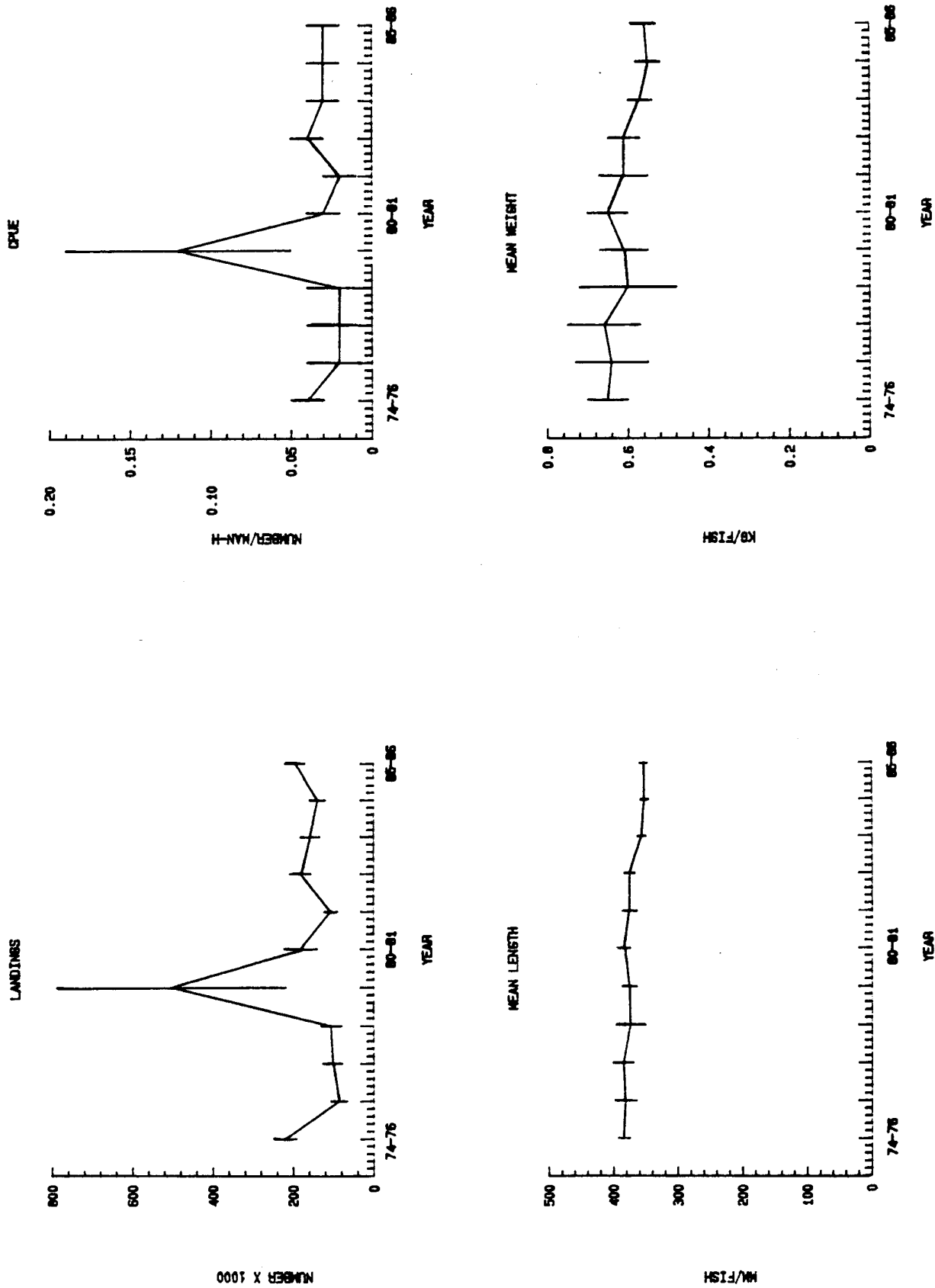


FIGURE 20. COASTWIDE ANNUAL STATISTICS FOR SOUTHERN FLOUNDER LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

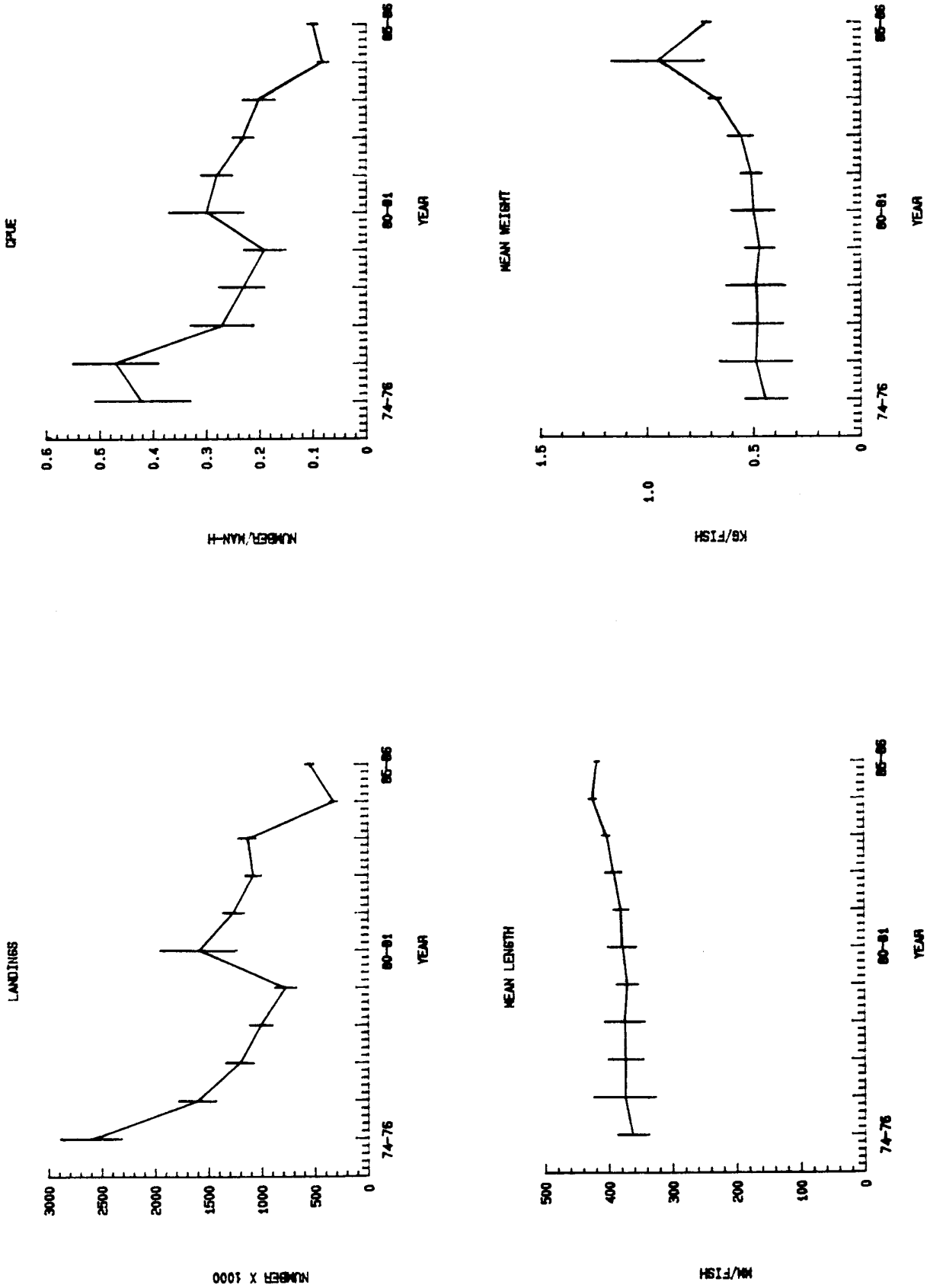


FIGURE 21. COASTWIDE ANNUAL STATISTICS FOR SPOTTED SEATROUT LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1986.

Appendix A: Pass descriptions.

## PASS DESCRIPTIONS

Prior to May 1983, pass fishing was defined as having fished gulfward of the surfline but within 1.6 km of an "open" pass. Gulf fishing included fishing in the TTS and the FCZ. Beginning May 1983, passes were specifically defined as follows:

## Galveston Bay

Rollover Pass is the area between the junction with Rollover Bay, extending 1.6 km gulfward of the surf line.

Bolivar Roads is the area east of a line between the ferry landings in Port Bolivar to a range marker at the Coast Guard Station at Fort Point and 1.6 km gulfward of the end of the jetties.

San Luis Pass is the area 0.8 km bayward and 1.6 km gulfward off the Vacek Bridge.

Quintana Channel is the area between the Intracoastal Waterway southeast to 1.6 km gulfward of the end of the jetties.

## Matagorda Bay

Brown Cedar Cut is the area between the mainland and Matagorda Peninsula, extending southeast 1.6 km gulfward of the surf line.

Matagorda Ship Channel is the area from Marker 13 southeast to 1.6 km gulfward of the end of the jetties.

Pass Cavallo is the area south of a line between Decros Point and Saluria Bayou to 1.6 km gulfward of a line between Marker 13 and the Matagorda Lighthouse on Matagorda Island.

## Aransas/Corpus Christi Bay Area

Cedar Bayou is the area between a line from Cedar Point southeast to the point of land on Matagorda Island out to 1.6 km gulfward of the surf line, including Vincent's Slough.

Aransas Pass is the area between a line from the range marker on San Jose Island to the Radio Beacon Tower out to 1.6 km gulfward of the end of the jetties.

Water Exchange Channel (Corpus Christi Fish Pass) is the area through Mustang Island between the junction of Corpus Christi Bay and 1.6 km gulfward of the surf line.

## Upper Laguna Madre

Old Corpus Christi Pass is the area through Mustang Island between the junction with the upper Laguna Madre 1.6 km gulfward of the surf line.

## Lower Laguna Madre

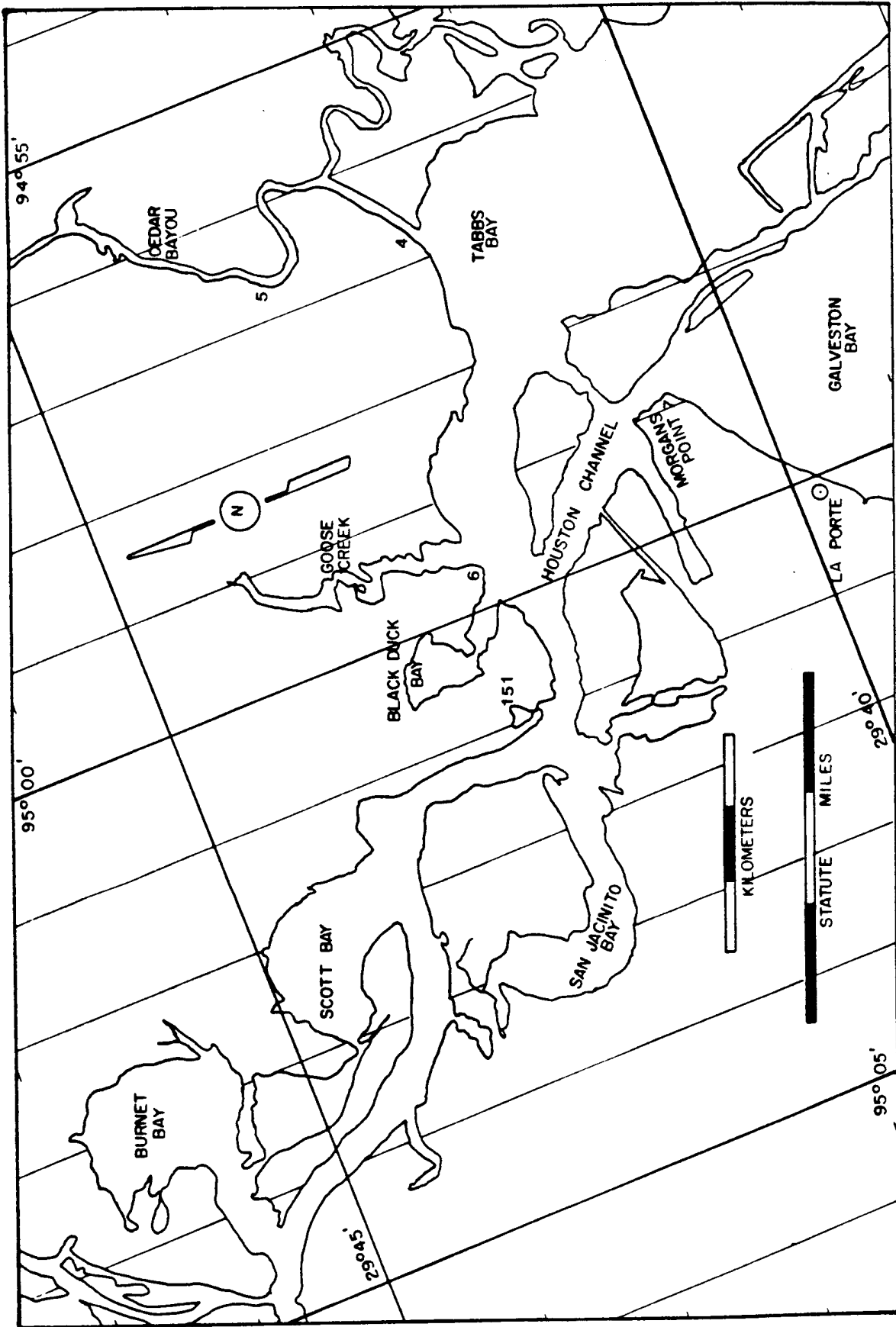
Mansfield Pass is the area extending from Marker 12 to 1.6 km gulfward of the end of the jetties.

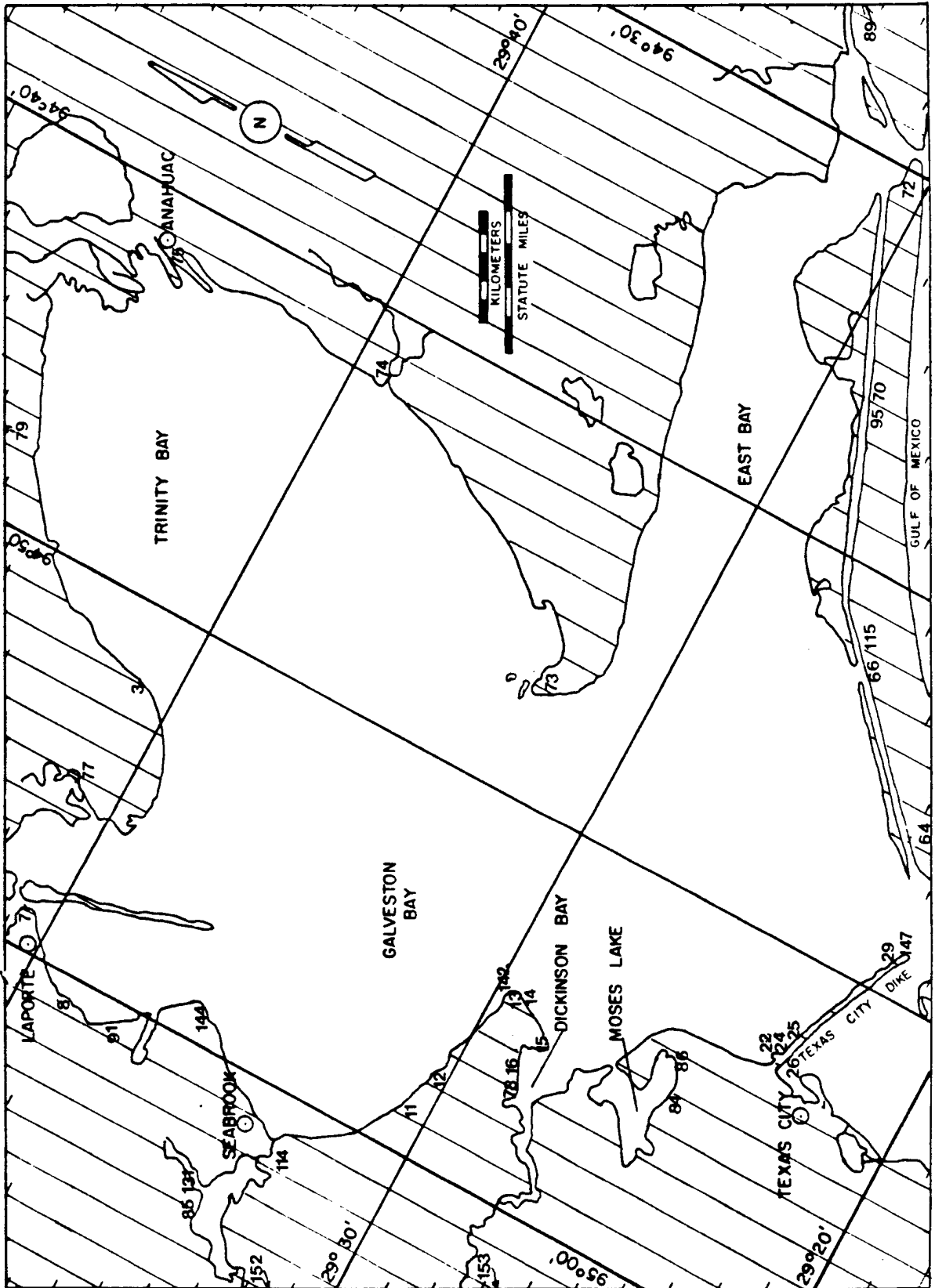
Brazos Santiago Pass is the area between a line from the Radio Beacon area south to Brazos Island out to 1.6 km gulfward of the end of the jetties.

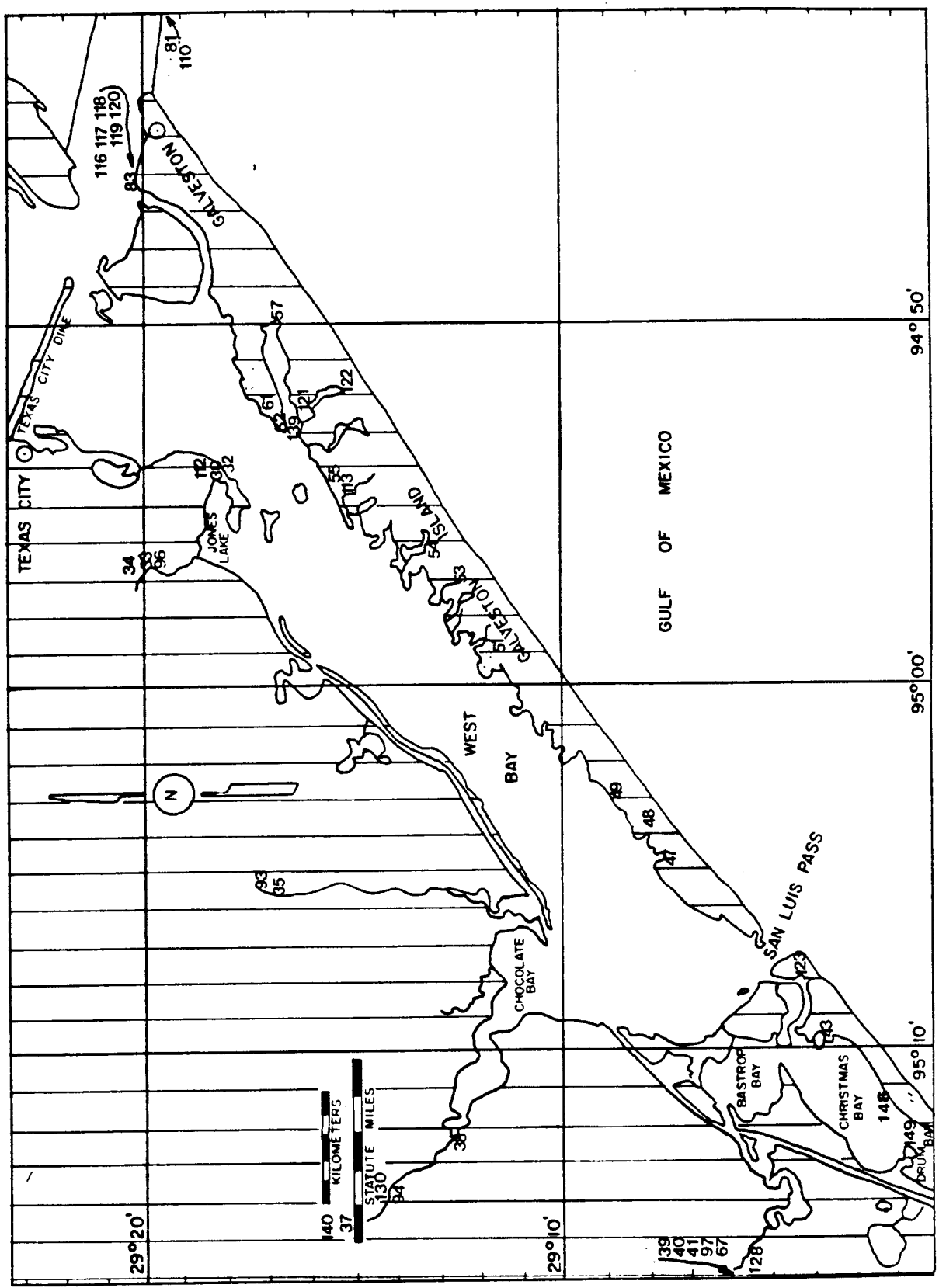
**Appendix B: Survey site inventory.**

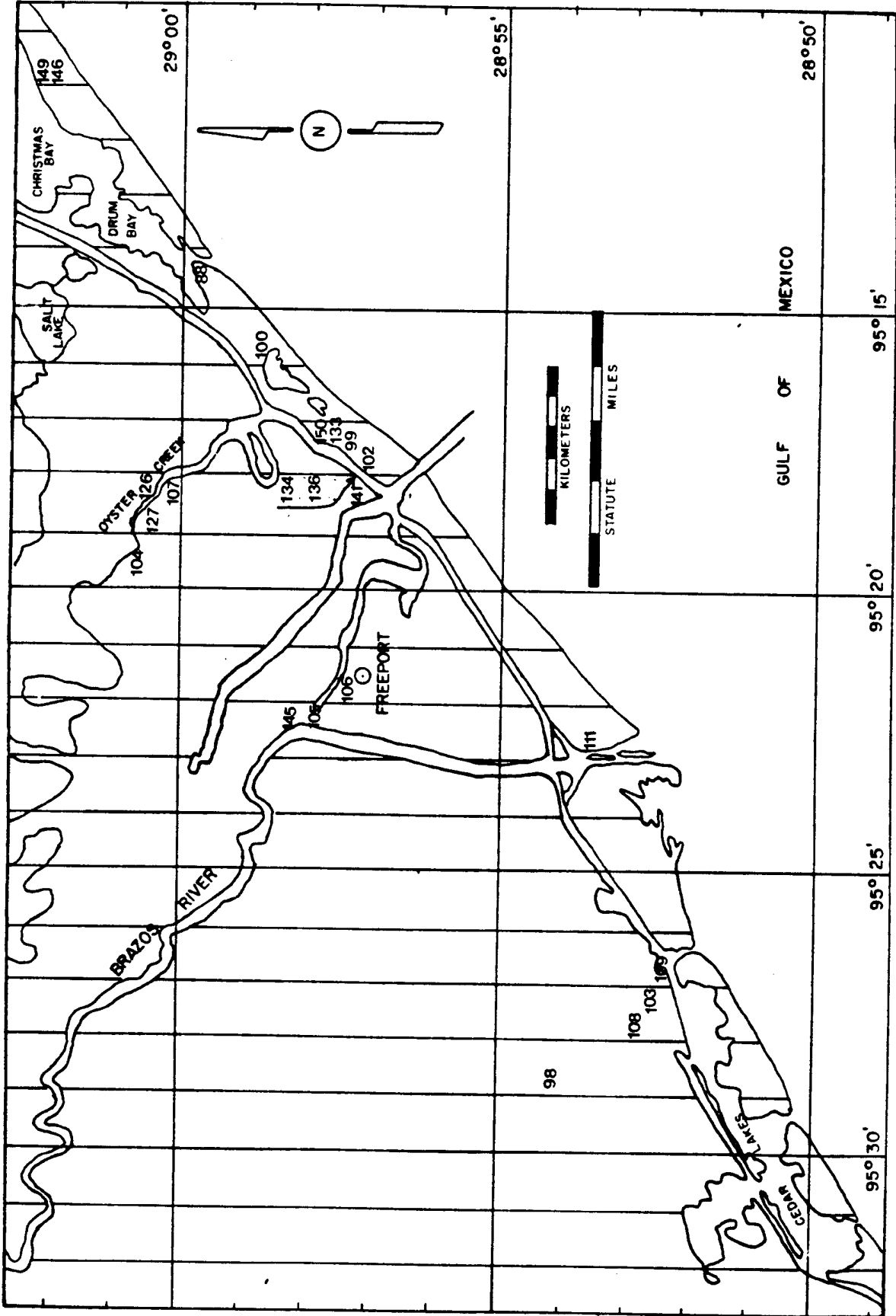


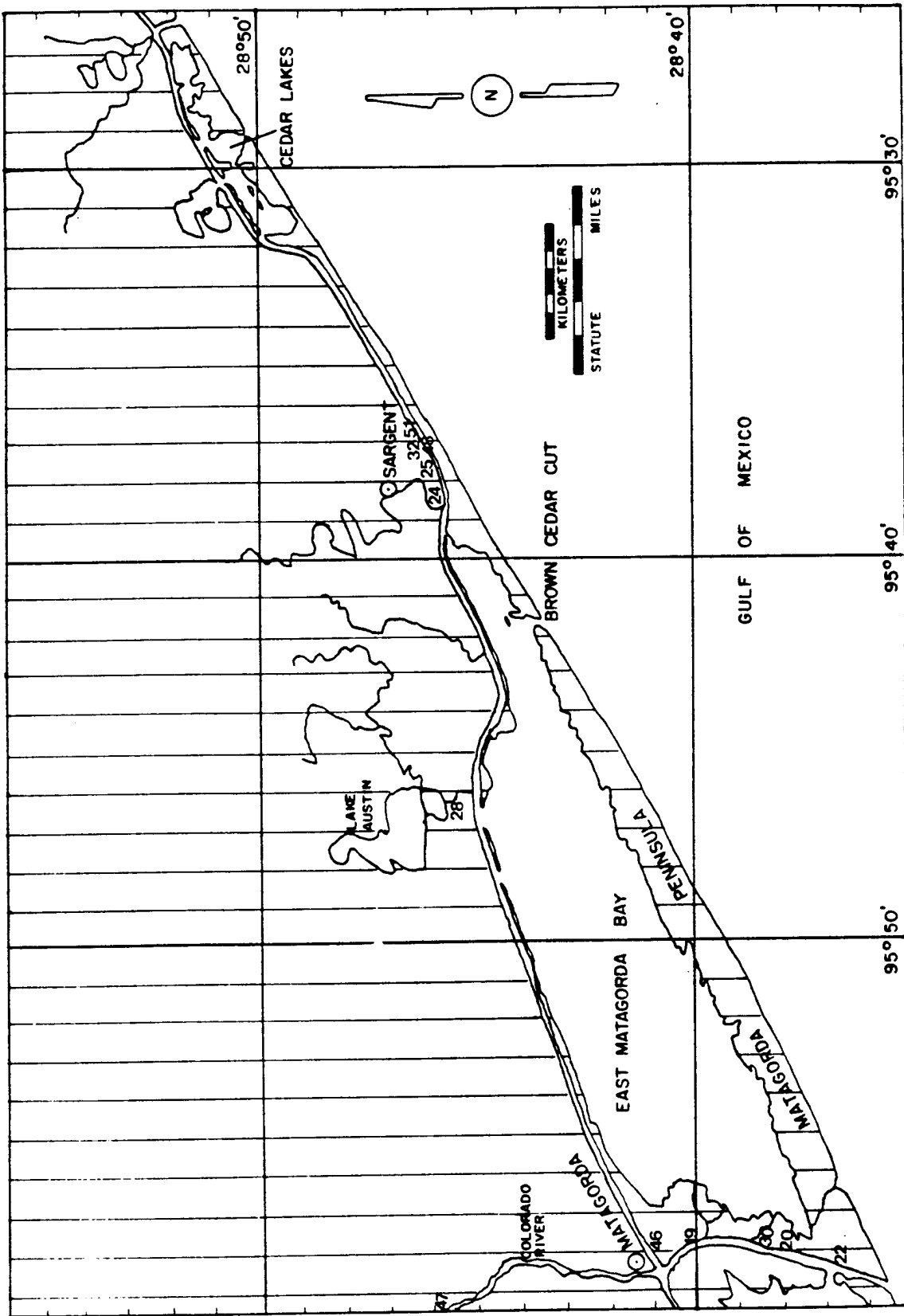
- Figure B.1. Boat-access sites in the Galveston Bay system (May 1974-May 1986).
- Figure B.2. Boat-access sites in the Galveston Bay system (May 1974-May 1986).
- Figure B.3. Boat-access sites in the Galveston Bay system (May 1974-May 1986).
- Figure B.4. Boat-access sites in the Galveston Bay system (May 1974-May 1986).
- Figure B.5. Boat-access sites in the Matagorda Bay system (May 1974-May 1986).
- Figure B.6. Boat-access sites in the Matagorda Bay system (May 1974-May 1986).
- Figure B.7. Boat-access sites in the San Antonio Bay system (May 1974-May 1986).
- Figure B.8. Boat-access sites in the Aransas Bay system (May 1974-May 1986).
- Figure B.9. Boat-access sites in the Corpus Christi Bay system (May 1974-May 1986).
- Figure B.10. Boat-access sites in the upper Laguna Madre system (May 1974-May 1986).
- Figure B.11. Boat-access sites in the lower Laguna Madre system (May 1974-May 1986).
- Figure B.12. Boat-access sites in the lower Laguna Madre system (May 1974-May 1986).

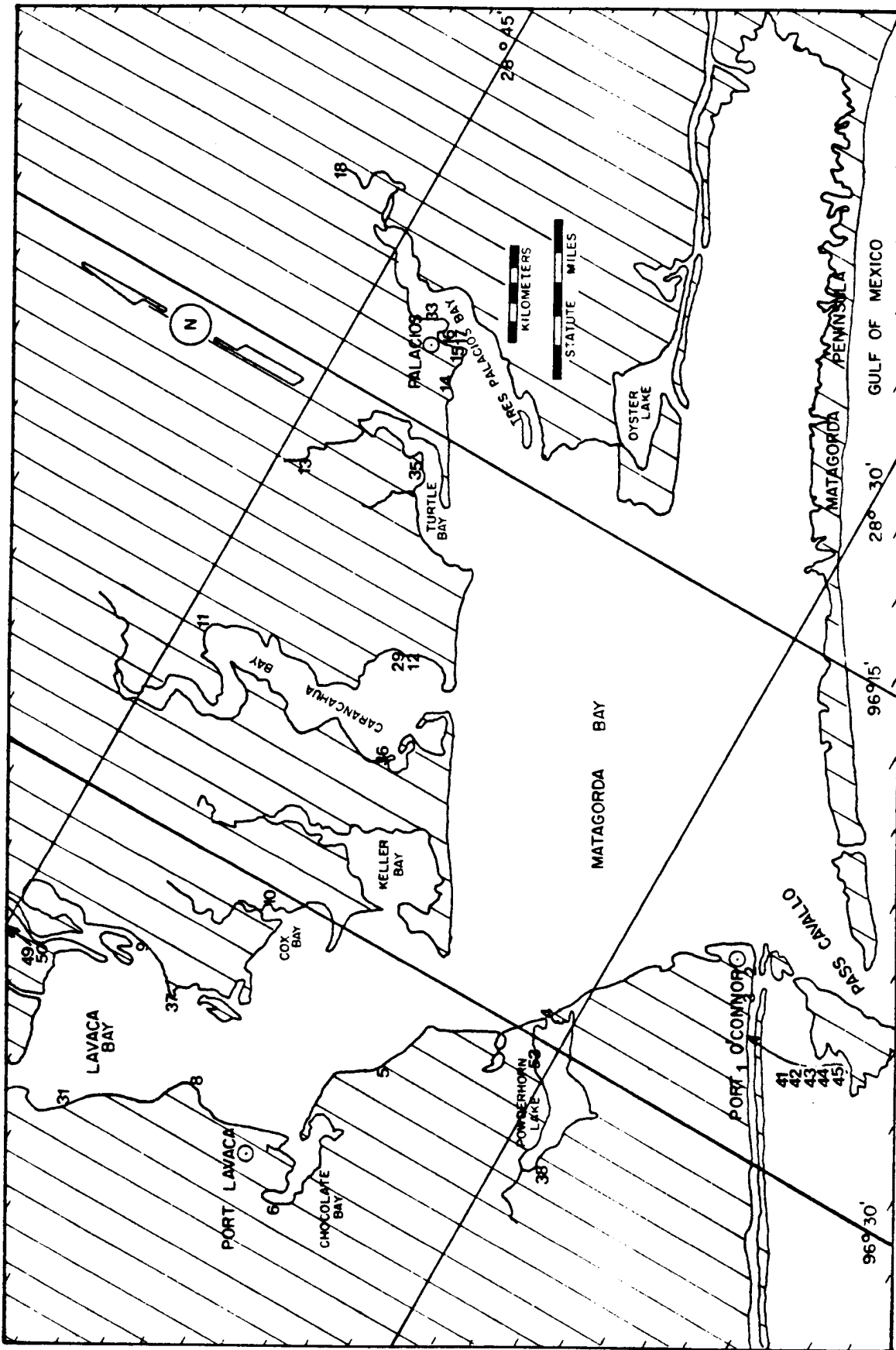


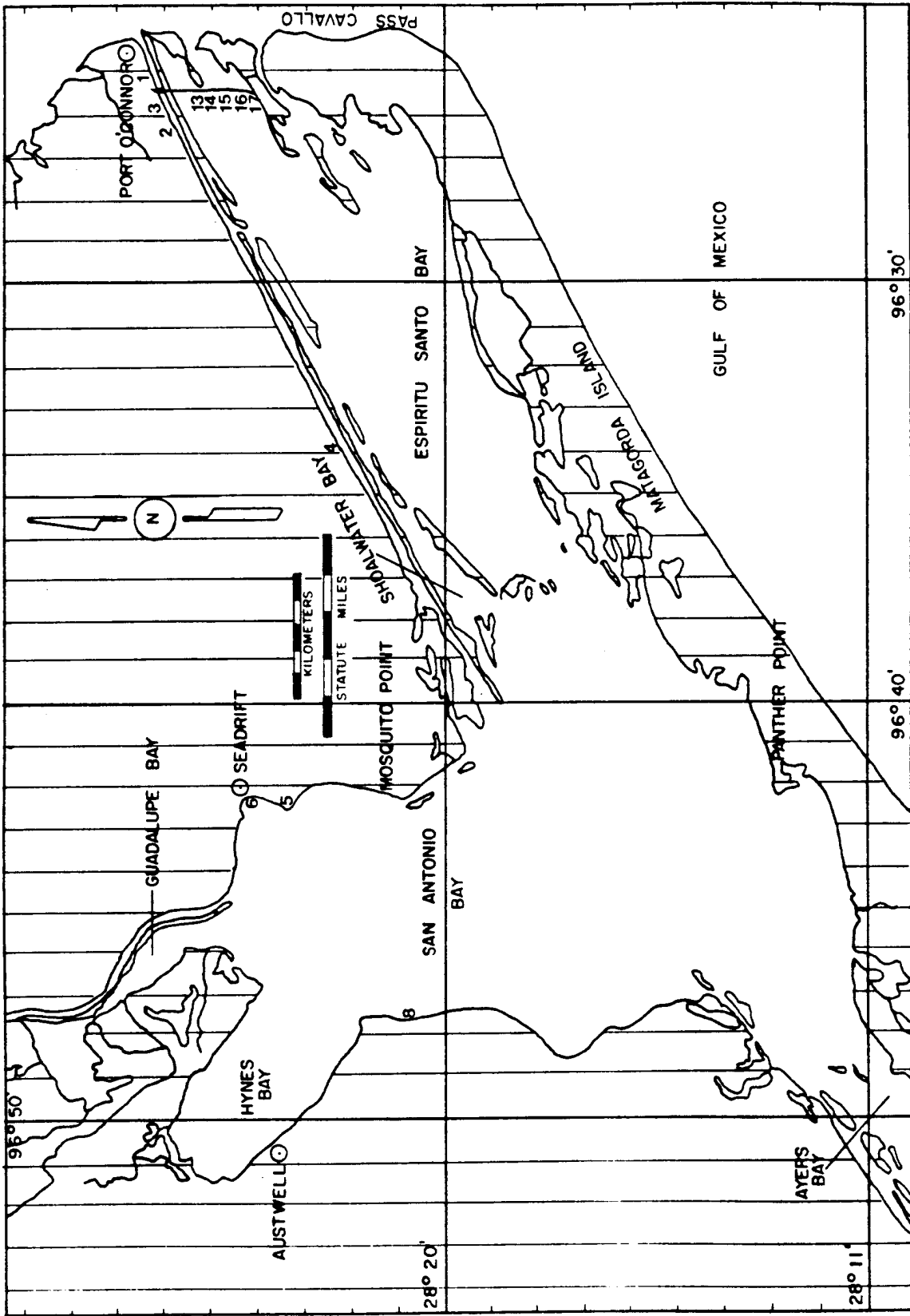




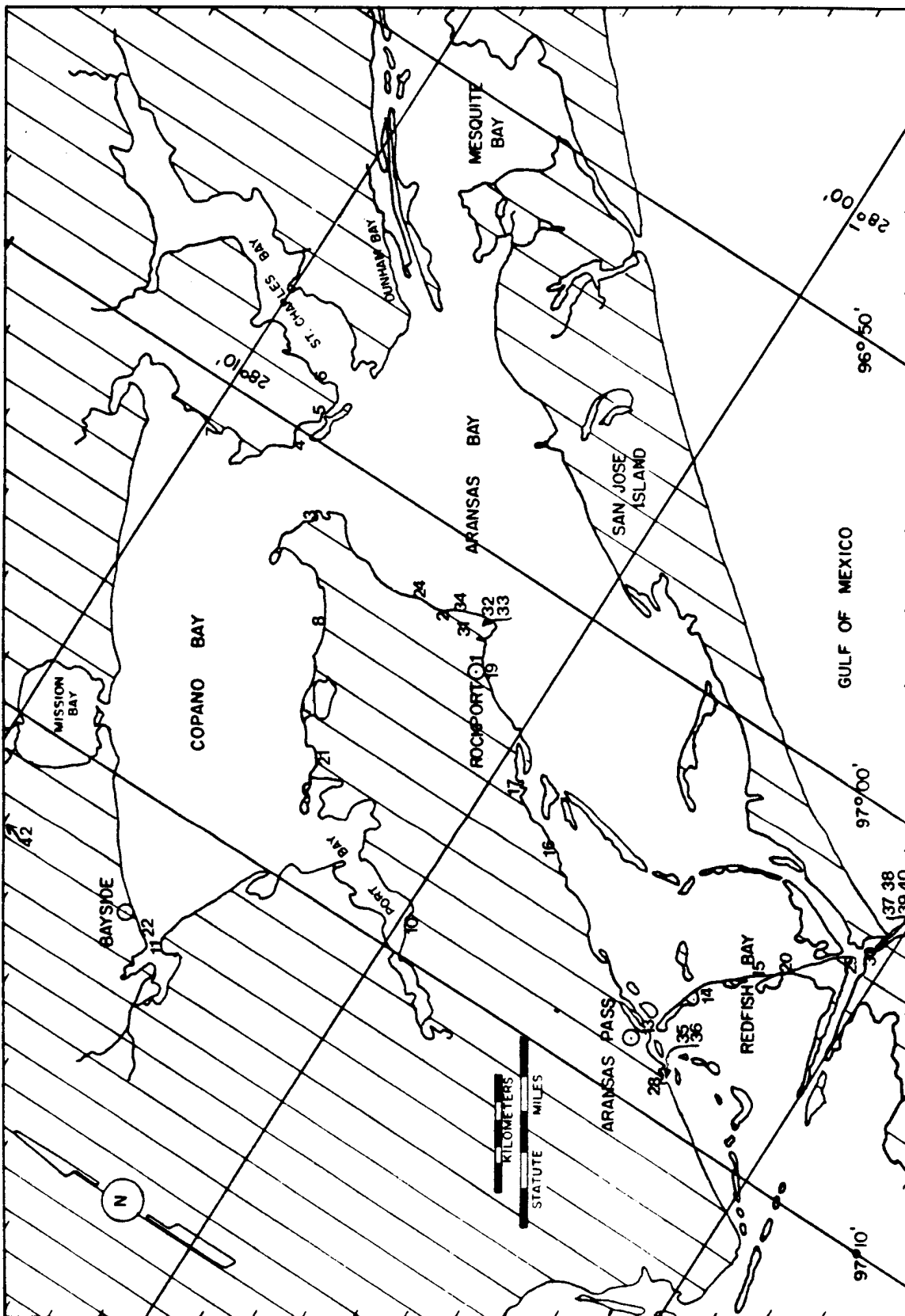


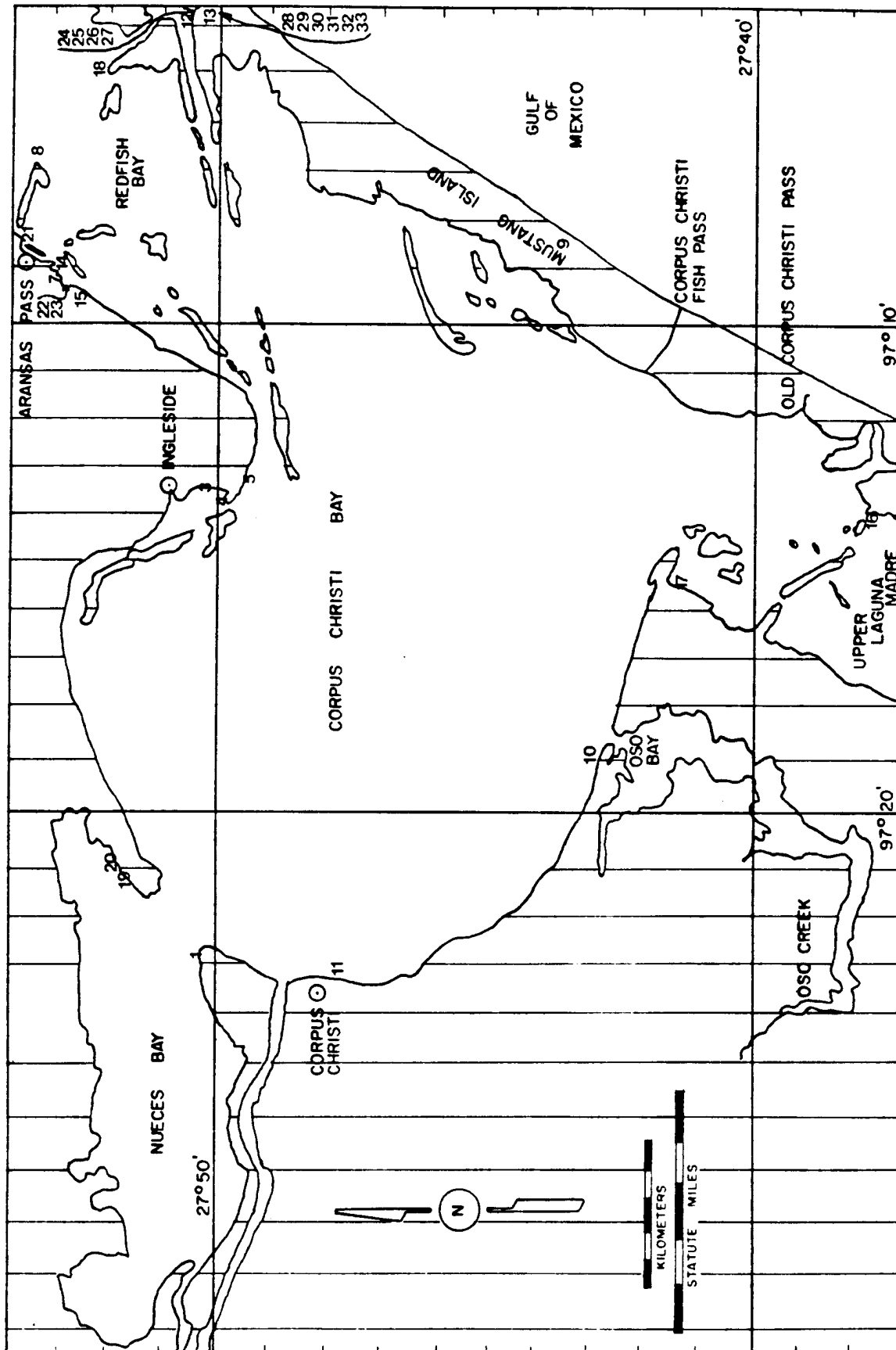


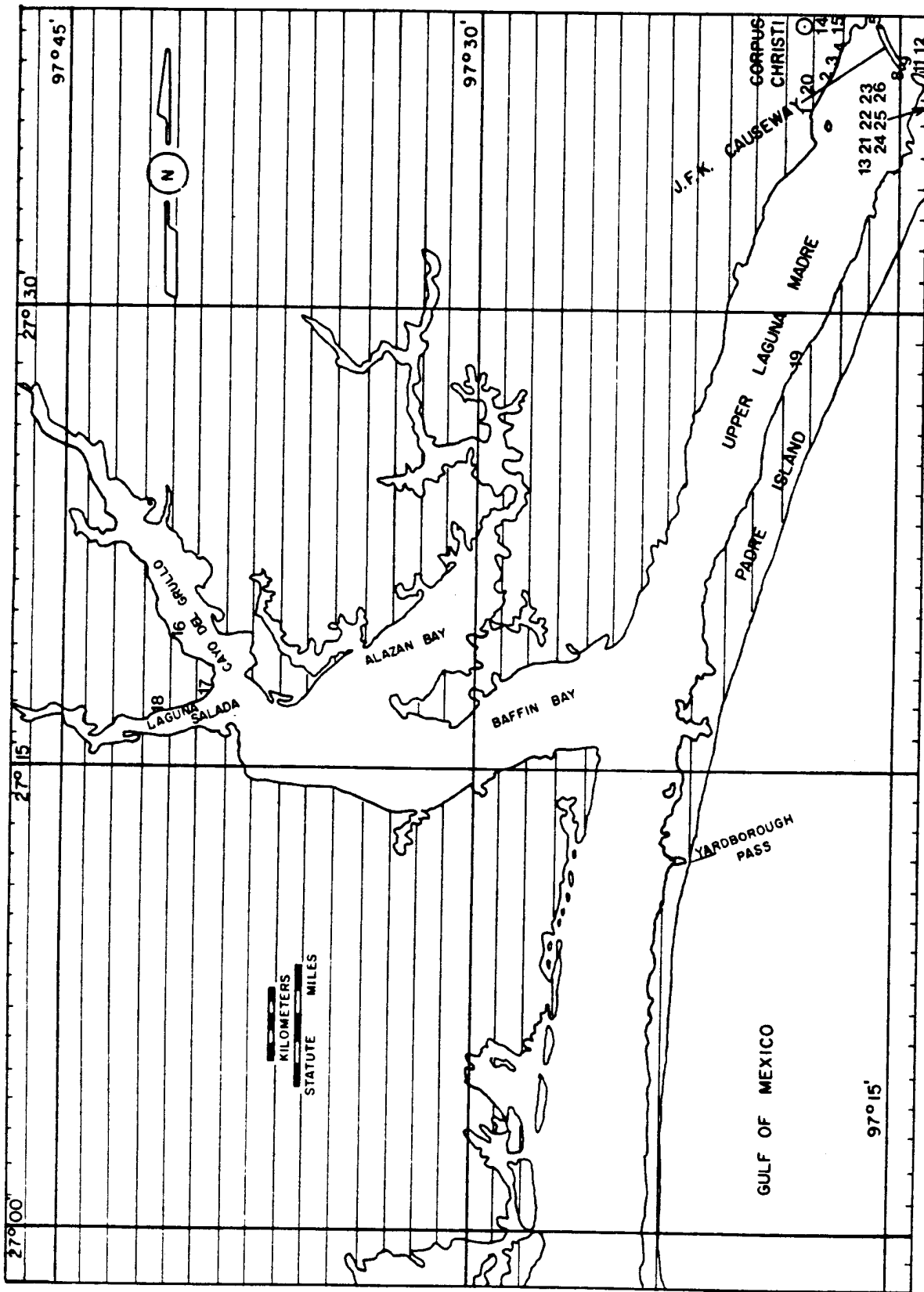


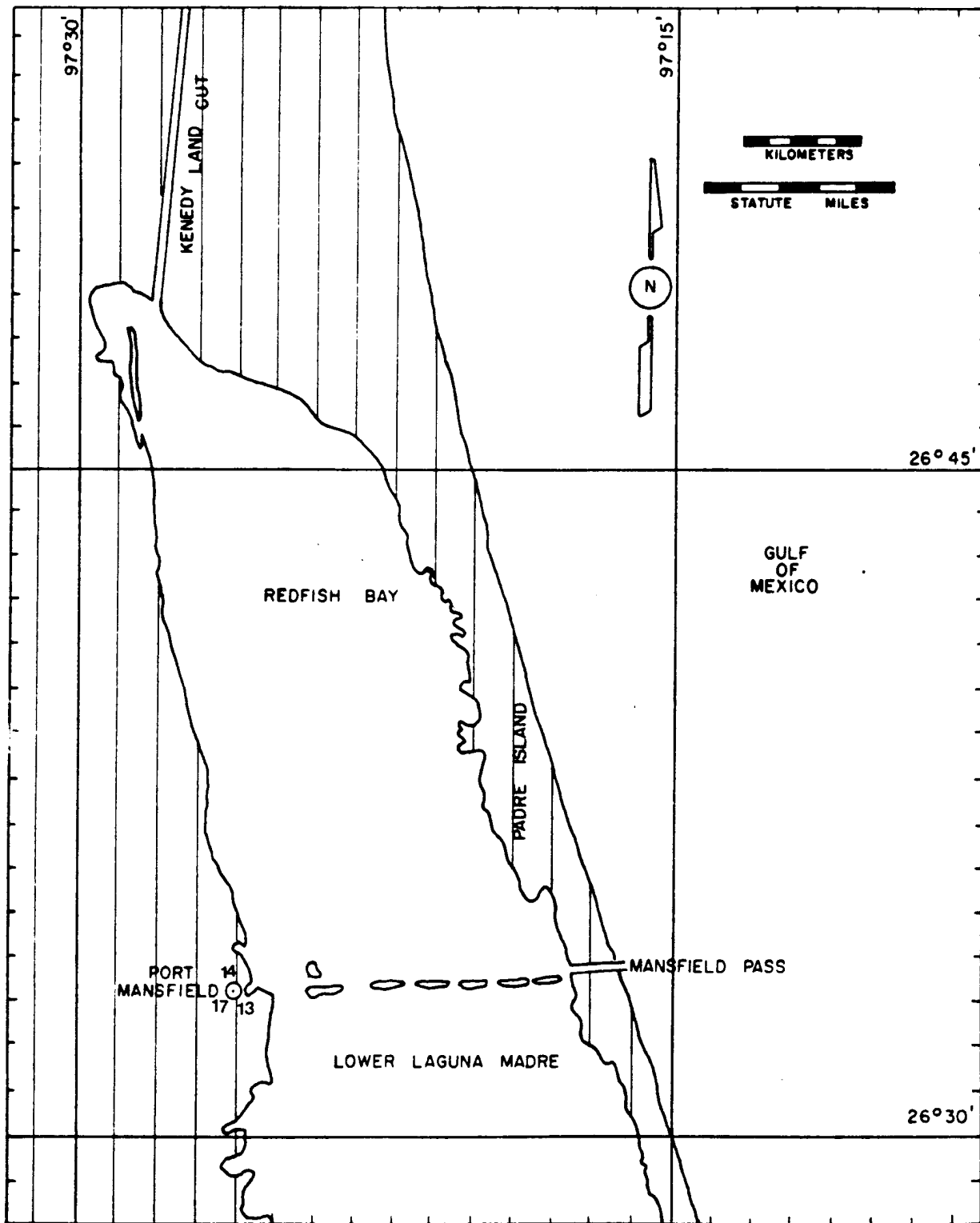












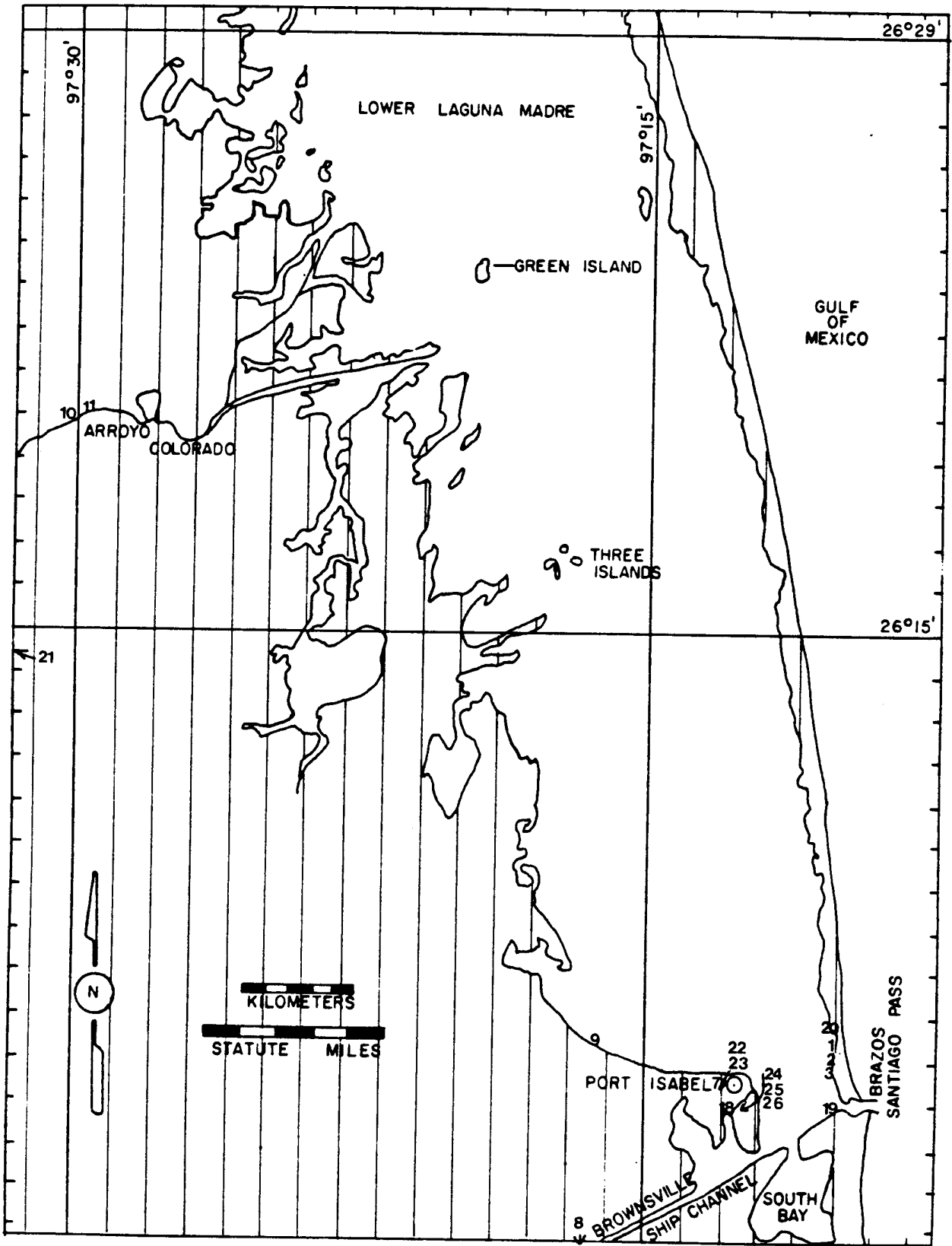


Table B.1. Boat-access sites in Texas bay systems (May 1974-May 1986). Bold type designates sites with wet slips or dry storage.

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston			(1)			(Cedar Bayou Outflow - Deleted 12/1/77)
			(2)			(Woodall's - Deleted 7/26/81)
	330	3		29°41'00"	94°52'00"	Crawleys Ramp - Members only
	312	4		29°40'56"	94°56'09"	Thompson's Ramp
	330	5		29°43'20"	94°56'35"	Roseland Park Ramp
	312	6		29°42'38"	95°00'24"	Tabb's Bay Ramp
	180	7		29°41'09"	94°59'03"	Morgan's Point Ramp
	180	8		29°38'55"	95°00'42"	Sylvan Beach Ramp
				(9)		(Oddo's - Deleted 9/1/80)
				(10)		(State Boat Ramp Clear Creek Channel - Deleted 5/15/84)
	180	11		29°30'44"	94°58'39"	Galveston County Park Ramp (Bacliff)
	180	12		29°30'23"	94°57'26"	HL&P Galveston County Park Ramp
	180	13		29°29'47"	94°54'58"	San Leon Marina Ramp and lift
	180	14		29°29'46"	94°54'36"	Eagle Point Camp Ramp and lift (includes 11 wet slips)
	180	15		29°28'19"	94°55'32"	April Fool Point lift (includes 24 wet slips)
	141	16		29°28'51"	94°56'10"	Marge's Bait Camp Ramp
				(17)		(Fiesta Marina-Deleted 11/20/82)
				(18)		(Lakeway Ramp and Simpson's Ramp - Deleted 5/15/84)
				(19)		(White Heron Resorts - Deleted 8/31/75)
				(20)		(Moses Lake Bait Camp - Deleted 11/21/82)
				(21)		(Mowles Camp Ramp - Deleted 5/15/84)
	180	22		29°23'28"	94°53'12"	C.C. Camp Ramp
				(23)		(Dollar Pt. Public Ramp - Deleted 8/31/75)
	180	24		29°23'20"	94°53'03"	Rilat's Ramp
						Dub's Ramp
	180	25		29°23'20"	94°53'01"	Curl's Ramp
	180	26		29°23'09"	94°52'21"	Public Ramp (Texas City Dike)
				(27)		(Public Ramp (Texas City Dike) - Deleted 5/15/84)
				(28)		(Public Ramp (Texas City Dike) - Deleted 5/15/84)
	180	29		29°22'00"	94°48'59"	Texas City Dike Marina Ramps
	201	30		29°18'23"	94°54'22"	Jones Lake State Boat Ramp
				(31)		(Intracoastal Inn - Deleted 9/1/78)
	180	32		29°18'10"	94°53'58"	Charlie's Landing Ramp
	201	33		29°19'50"	94°56'39"	Kelly's Ramp (includes rent boats)
201	34		29°19'54"	94°56'47"	Louis' Ramp (includes rent boats)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	191	35		29°17'06"	95°07'41"	Hall's Bayou Camp Ramp (Snug Harbor Marina - Deleted 12/1/78)
	100	37	(36)	29°15'11"	95°13'58"	Lute's Marina Boat Lift
	100	38		29°13'43"	95°12'31"	Chocolate Bay State Boat Ramp
	50	39		29°05'24"	95°16'39"	Marlin Marina Ramp
	50	40		29°05'37"	95°17'00"	State Ramp - Bastrop Bayou - (under bridge)
	50	41		29°04'53"	95°17'13"	Jack Booth's Ramp Bastrop Marina (includes 5 wet slips) (Shell Ramp (Christmas Bay) - Deleted 12/1/78)
	110	43	(42)	29°02'52"	95°09'56"	Sy's Bait Camp Ramp
			(44)			(Galveston-Freeport Campground Ramp - Deleted 11-21-84)
			(45)			(Public Launching - Shoreline - Deleted 9/1/80)
			(46)			(San Luis Pass Bait Camp - Deleted 5/15/82)
			(50)			Bay Harbor Ramps
350	47		29°07'45"	95°04'22"	Terramar Beach Ramp	
350	48		29°07'55"	95°03'49"	Sea Isle Ramps	
350	49		29°08'42"	95°02'48"	(Jamaica Beach Marina Ramp - Deleted 11/21/85)	
350	51		29°11'37"	94°58'56"	Jamaica Beach Boat Ramp	
350	52				<b>Boat Trailers at non-designated ramps</b>	
350	53		29°12'31"	94°56'57"	Pirate's Beach Marina Ramp	
350	54		29°13'04"	94°56'34"	Pirate's Beach Boat Ramp	
350	55		29°15'38"	94°54'20"	Andy's Bait Camp Ramp	
350	57	(56)	29°17'03"	94°50'09"	(73rd Street County Park - Deleted 7/28/81) 61st Street County Park Ramp	
		(58)			(Bayou Bay Marina - Deleted 9/1/79)	
		(59)			(Newell Marina Ramp - Deleted 5/15/84)	
		(60)			(M&M Camp - Deleted 9/1/79)	
350	61		29°17'14"	94°52'19"	Payco Marina Ramp (includes Docks AA and B; 53 wet slips)	
350	62		29°17'18"	94°52'23"	Pleasure Island Ramp	
		(63)			(Jim Reid's Ramp - Deleted 11/21/85)	
180	64		29°23'04"	94°46'05"	Shirley's Cafeteria Ramp	
		(65)			(Johnson Road - Deleted 3/20/78)	
150	66		29°25'48"	94°42'37"	Bollivar Bait Camp Ramp (includes 2 boat houses with 70 wet slips)	
50	67		29°05'10"	95°16'44"	2-J's Harbor (Demi-John)	
		(68)			(B&P Camp - Deleted 7/15/81)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	150	70	(69)	29°28'50"	94°36'16"	(Bob's Camp - Deleted 9/6/79) Stingaree Marina Ramp
	286	72	(71)	29°30'51"	94°30'45"	(Chocolate Bayou Marina - Deleted 8/31/75) Charles W. Lauderdale Public County Boat Ramp
	330	73		29°32'09"	94°46'54"	Smith Point Ramp (Van-to-Un and Robbin's Park)
	330	74		29°39'11"	94°41'35"	Oak Island County Ramp
	330	75		29°45'19"	94°41'29"	Fort Anahuac Park Ramp
	180	77	(76)	29°40'46"	94°55'34"	(Anahuac State Ramp - Deleted 12/1/78) Willis
	141	78		29°28'24"	94°57'17"	Dickinson Bayou Public Ramp
	063	79		29°48'17"	94°48'35"	Cotton Lake Ramp
	91	81	(80)	29°20'02"	94°41'52"	(South Galveston Jetty Ramp - Deleted 5/15/85) Waddell's Ramp and Wilson's Ramp
	180	83	(82)	29°19'02"	94°46'32"	(North Galveston Jetty Ramp - Deleted 5/15/84) Galveston Yacht Basin Ramp
	241	84		29°25'08"	94°55'34"	The Fish Spot Ramp
	111	85		29°33'51"	95°04'03"	Clear Lake Ramp
	142	86		29°25'19"	94°53'29"	Dollar Bay Ramp
	144	88	(87)	28°59'53"	95°13'57"	(Cotton's Bait Camp Ramp - Deleted 11/21/85) Brazoria County Ramp 57 A (Third Street)
	150	89	(90)	29°35'41"	94°23'24"	High Island State Boat Ramp (San Jacinto Bay Bridge - Deleted 10/3/81)
	180	91	(92)	29°37'25"	95°00'34"	Shoreacres Ramp (Tiger Marina - Deleted 10/3/81)
	191	93		29°17'14"	95°08'01"	Hall's Bayou Bridge Ramp
	100	94		29°14'38"	95°13'59"	Horseshoe Bend Marina Ramp
	150	95		29°28'45"	94°36'16"	Charpiot Ramp
	201	96		29°19'49"	94°56'12"	Omega Bay Ramp
	50	97		29°04'56"	95°17'11"	Bastrop Bayou Private Ramp
	560	98		28°53'57"	95°29'33"	Ernie's Acres Ramp (Freeport)
172	99		28°57'22"	95°17'12"	Dolphin Street Ramp (Freeport)	
172	100	(101)	28°58'47"	95°16'05"	Brazoria County Ramp 57A (Bay Street, Freeport) (Bridge Harbor Marina Ramp (Freeport) - Deleted 5/15/84)	
172	102		28°57'22"	95°17'32"	State Ramp (Freeport - under ICWW bridge)	



Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	560	103		28°52'30"	95°27'19"	Ducroz Ramp (Freeport)
	265	104		29°00'36"	95°19'34"	Oyster Creek Ramp (Freeport)
	570	105		28°57'42"	95°22'13"	City Ramp (in Freeport Municipal Park-Freeport)
	266	106		28°57'21"	95°21'41"	City Ramp (by Community center/tennis courts-Freeport)
	265	107		29°00'07"	95°18'26"	Turtle Cove Ramp (Freeport)
	560	108		28°52'35"	95°27'34"	Bennet's Motel Ramp
	560	109		28°52'11"	95°26'46"	Public Ramp (Freeport)
	91	110		29°20'02"	94°41'47"	Tugboat Eddies Ramp (Freeport)
	570	111		28°53'59"	95°23'03"	New Brazos River Ramp (at end of dike in Freeport)
	350	112		29°18'09"	94°53'58"	Harbor Cove Ramp
	241	113		29°25'15"	94°55'34"	Ray Marine and Bait Camp Ramp
	123	114		29°33'00"	95°01'45"	Clear Lake Shores Ramp
	150	115		29°25'43"	94°42'07"	Boyt Road Boat Ramp
	180	116		29°19'02"	94°46'32"	Galveston Yacht Basin Boat Barn (party boats)
	180	117		29°19'02"	94°46'32"	Galveston Yacht Basin Dock A (46 slips; party boats)
	180	118		29°19'02"	94°46'32"	Galveston Yacht Basin Dock B (116 slips; party boats)
	180	119		29°19'02"	94°46'32"	Galveston Yacht Basin Dock C (116 slips; party boats)
	180	120		29°19'02"	94°46'32"	Galveston Yacht Basin Dock D (116 slips; party boats)
	350	121		29°16'38"	94°50'48"	Pirates Cove Apts. Ramp
	350	122		29°15'47"	94°50'29"	Havre Lafitte Ramp
	530	123		29°04'33"	95°07'50"	Treasure Island Ramp
						(124)
						(125)
	265	126		29°00'08"	95°18'06"	(Turtle Cove North Shore Boat Shed - Deleted 5/15/84)
	172	127		29°00'28"	95°18'57"	(Turtle Cove South Shore Boat Shed-Deleted 5/15/84)
	50	128		29°05'48"	95°16'59"	Hide-A-Way on the Gulf Ramps
						Kirby Marina (72 wet slips)
						B&H Bait Camp Ramp
						(129)
	100	130		29°14'38"	95°13'59"	(Marlin Marina Boat Shed (14 wet slips) - Deleted 11/21/85)
	321	131		29°34'27"	95°03'05"	Horseshoe Bend Camp Boat Shed (22 wet slips)
						Timber Cove Subdivision Ramp (Taylor Lake)
						(132)
172	133		28°57'46"	95°17'34"	(Bridge Harbor Canal Front Slips (30 slips; party boats) - Deleted 5/15/84)	
172	134		28°57'46"	95°17'34"	Bridge Harbor Canal Dock A (26 slips; party boats)	
					Bridge Harbor Canal Dock B and Dock C (66 wet slips)	
					(135)	
					(Bridge Harbor Canal Dock C (32 slips; party boats) - Deleted 5/15/85)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification	
		In use	Deleted				
Galveston	172	136	(137) (138)	28°57'46"	95°17'34"	Bridge Harbor Canal Dock D and Dock E (72 wet slips) (Bridge Harbor Canal Dock E (40 slips; party boats) - Deleted 5/15/85) (Harbor Cove Wet Slips (50 wet slips) - Deleted 5/15/84)	
	350	139		29°17'14"	94°52'19"	Payco Marina Docks C and CC (24 wet slips)	
	100	140		29°15'11"	95°13'58"	Lutes Marina Ramp and Boat House (40 wet slips; party boats)	
	172	141		28°57'31"	95°18'16"	Beach, Bait and Tackle Ramp	
	180	142		29°29'47"	94°54'58"	San Leon Marina Boat Sheds (2 boat sheds; party boats)	
	180	143		29°17'39"	94°51'23"	Bonno's Bait Camp Ramp	
	180	144		29°35'51"	94°59'10"	El Jardin Ramp	
	570	145				Freeport City Ramp (on New Brazos across from Municipal Park)	
	110	146		29°01'50"	95°11'51"	Key Largo	
	180	147		29°22'00"	94°48'59"	Texas City Dike Marina Lift	
	110	149	(148)	29°01'50"	95°11'52"	(Public Ramp (just East of Cedar Cut) - Deleted 5/15/85)	
	172	150		28°57'46"	95°17'34"	Public Ramp (just West of Cedar Cut)	
	312	151		29°42'37"	95°00'11"	Bridge Harbor Pool Side Dock (26 slips across from fuel docks)	
	111	152		29°30'52"	95°06'12"	Baitland Ramp	
	141	153	(154)	29°27'21"	95°02'50"	League City Park Ramp (Hwy 3) Dickinson Bayou County Ramp (Hwy 3) (Payco Marina Dock D (14 slips) - Deleted 11/21/85)	
	Matagorda	360	1		28°25'55"	96°26'04"	Doc's Dock Ramp
		360	2		28°26'23"	96°24'52"	Fishing Center Ramp
360		3		28°26'12"	96°25'26"	Bobbie's Ramp (includes boats in wet slips and La Pesca party boats)	
271		4		28°30'41"	96°29'20"	Indianola Fishing Center Ramp (includes boats in wet slips)	
220		5		28°33'40"	96°32'21"	Magnolia Ramp	
112		6		28°34'41"	96°39'00"	Chocolate Bayou Ramp	
220		7		28°35'43"	96°37'09"	Harbor Refuge Ramp	
220		8		28°38'20"	96°36'44"	Lavaca Causeway Ramp (includes boats in wet slips)	
220		9		28°40'53"	96°33'45"	Point Comfort Ramp	
210		10		28°38'24"	96°27'30"	Florence's Boat Camp (includes boats in wet slips)	
60		11		28°44'17"	96°24'05"	Crescent V Ramp	
60		12		28°38'08"	96°21'22"	At Last Marina	
340		13		28°43'13"	96°16'24"	Turtle Bridge Ramp	
320		14		28°41'48"	96°13'47"	Turning Basin Ramp	
320		15		28°41'47"	96°13'11"	Palacios Bait Camp	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Matagorda	320	16		28°42'20"	96°12'32"	East Bay Ramp
	320	17		28°42'52"	96°12'00"	Grassy Point Bait Camp
	320	18		28°40'10"	96°11'00"	Palacios River Ramp
	590	19		28°40'14"	95°57'52"	River Bend Ramp
	590	20		28°38'22"	95°58'02"	All's Ramp
	590	22	(21)	28°37'04"	95°58'24"	(Gilmer's - Deleted 8/17/79; Reopened 5/15/81; Deleted 6/15/82) Rawlings Ramp
	160	24	(23)	28°46'20"	95°38'04"	(UFO Ramp - Deleted 5/15/84) Plunks Bait Camp (includes boats in wet slips)
	160	25	(26)	28°46'16"	95°37'03"	Hanna's Marina Ramp (includes boats in wet slips) (Cherry's Ramp - Deleted 5/15/84)
	160	28	(27)	28°45'28"	95°46'23"	(Bulkhead Marina - Deleted 5/15/80) Chinquapin Ramp
	60	29		28°38'16"	96°21'20"	The Wharf Ramp
	160	30		28°38'37"	95°57'52"	St. Mary's Bayou Ramp
	220	31		28°41'38"	96°39'50"	Six Mile Ramp
	160	32		28°46'21"	95°36'55"	Don Juan Marina
	320	33		28°42'33"	96°12'35"	Brookings Boat Shed (34 wet slips) (Collegeport Ramp - Deleted 11/21/85)
	210	35	(34)	28°41'15"	96°16'27"	Jensen's Point Ramp
	60	36		28°39'30"	96°24'54"	Port Alto Boat Shed (107 wet slips in 2 sheds)
	220	37		28°39'38"	96°35'03"	East End of Port Lavaca Causeway (launching from shore)
	271	38	(39)	28°28'47"	96°33'05"	Coloma Creek Bridge (launching from shore) (Fishing Center Boat Sheds (2 boat sheds with 26 wet slips; party boats included) - Deleted 5/15/84)
	360	41	(40)	28°26'16"	96°24'57"	Not previously assigned McKinney Boat Sheds (30 wet slips)
	360	42		28°26'17"	96°25'00"	Power's Boat Sheds (58 wet slips)
360	43		28°26'12"	96°25'17"	Alligator Head East Boat Sheds (19 wet slips)	
360	44		28°26'11"	96°25'18"	Alligator Head West Boat Sheds (49 wet slips)	
360	45		28°26'00"	96°25'48"	Weathersby's Boat Sheds (40 wet slips; 1 party boat)	
160	46		28°41'17"	95°57'56"	Cand R Bait Camp	
590	47		28°45'44"	96°00'04"	Selkirk Island Ramp	
160	48		28°46'26"	95°37'15"	"Lillie's" Ramp	
220	49		28°50'00"	96°34'20"	Lolita Ramp	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Matagorda	220	50		28°49'20"	96°34'25"	Frell's Landing
	160	51		28°46'10"	95°37'08"	Holiday Harbor Marina
	271	52 53		28°30'35"	96°30'08"	Boat trailers at non-designated ramps S and S Marina
San Antonio	170	1		28°26'23"	96°24'52"	Fishing Center Ramp
	170	2		28°25'55"	96°26'04"	Doc's Dock Ramp
	170	3		28°26'12"	96°25'26"	Bobbie's Ramp (includes boats in wet slips and La Pesca party boats)
	170	4		28°21'55"	96°34'38"	Fulghum's Ramp (includes boats in wet slips)
	300	5		28°23'24"	96°42'32"	Swan Point Ramp
	300	6		28°24'27"	96°42'38"	Seadrift Ramp (Austwell - Deleted 8/17/79)
Aransas	300	8	(7)	28°20'48"	96°47'38"	Hopper's Landing Ramp (includes boats in wet slips) (Pete's Bait Camp - Deleted 8/17/79)
	170	13	(9)			(Morgan's Bait Camp - Deleted 8/17/79)
	170	14	(10)			(Fishing Center Boat Sheds (2 boat sheds with 26 wet slips; party boats included) - Deleted 5/15/84)
	170	15	(11)			Not previously assigned
	170	16	(12)			McKinney Boat Sheds (30 wet slips)
	170	17		28°26'16"	96°24'57"	Power's Boat Sheds (58 wet slips)
		52		28°26'17"	96°25'00"	Alligator Head East Boat Sheds (19 wet slips)
				28°26'12"	96°25'17"	Alligator Head West Boat Sheds (49 wet slips)
				28°26'11"	96°25'18"	Weathersby's Boat Sheds (40 wet slips; 1 party boat)
				28°26'00"	96°25'48"	Boat trailers at non-designated ramps
						Little Bay Ramp
		227	1	28°01'50"	97°02'19"	Fulton Harbor Ramp (includes boats in Fulton Boat House)
	20	2	28°03'36"	97°02'00"	South Copano Causeway Ramp	
	120	3	28°06'49"	97°01'32"	Sea Gun Marina Ramp (includes boats in wet slips; party boats)	
	20	4	28°08'13"	97°00'22"	Goose Island State Park Ramp	
	310	5	28°07'43"	96°59'07"	St. Charles Marina Ramp (includes boats in wet slips)	
	310	6	28°08'24"	96°58'39"	Holiday Beach Ramp	
	120	7	28°09'48"	97°00'35"	Joe's Ramp (includes boats in wet slips)	
	120	8	28°05'07"	97°04'11"	(Klein's Rattlesnake Point Ramp - Deleted 5/15/84)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Arkansas	270	10		27°59'35"	97°09'07"	Redfish Camp Ramp
	120	11	(12)	28°04'14"	97°13'08"	Glenn's Marina-Bayside Ramp (Conn Brown Harbor - Deleted 11/21/85)
	280	13		27°53'58"	97°08'14"	Louie's Bait Hut Ramp
	284	14		27°53'18"	97°06'42"	Fin & Feather Marina
	285	15		27°52'55"	97°05'57"	Redfish Bay Marina Ramp (includes rent boats and boats in wet slips)
	280	16		27°58'04"	97°05'21"	Palm Harbor Ramp (includes boats in wet slips)
	280	17		27°59'23"	97°04'42"	Cove Harbor Ramp
			(18)			(Port Bay - Deleted 11/21/82)
	20	19		28°01'28"	97°02'57"	Rockport Turning Basin Ramp (includes boats in boat basin wet slips)
	285	20		27°52'09"	97°05'51"	Bait Hut Ramp
	120	21		28°03'48"	97°06'40"	Pouzee's Ramp
	120	22		28°04'34"	97°13'10"	Bayside Public Ramp - (Deleted 12/1/80; Reopened 11/20/82)
			(23)			(Hogan's Ramp - Deleted 5/15/84)
	20	24		28°04'23"	97°02'07"	Sand Dollar Ramp
			(25)			(Key Allegro Marina - Deleted 5/15/82)
			(26)			(Key Allegro North Ramp - Deleted 12/1/80)
			(27)			(Racquet Club - Deleted 5/15/82)
284	28		27°53'22"	97°08'53"	Arkansas Airport Ramp	
96	29		27°50'19"	97°04'00"	Port Arkansas Public Ramp	
96	30		27°50'18"	97°03'44"	Woody's Ramp	
227	31		28°03'07"	97°02'07"	Harbor Oaks Ramp	
227	32		28°02'30"	97°01'50"	Key Allegro Boat Shed (includes party boats)	
227	33		28°02'30"	97°01'50"	Key Allegro Boat Shed and T-Head (includes party boats)	
20	34		28°03'31"	97°02'00"	Sea Foam Motel Ramp (includes 6 wet slips)	
284	35		27°53'22"	97°08'48"	Harbor East with Marnot and Mac	
284	36		27°53'22"	97°08'59"	Harbor West	
96	37		27°50'18"	97°03'42"	Woody's West Docks (3 docks with 48 wet slips; party boats)	
96	38		27°50'18"	97°03'40"	Woody's East Dock (3 docks with 57 wet slips; party boats)	
96	39		27°50'19"	97°03'37"	Sportsman Center South (1 dock with 40 wet slips; party boats)	
96	40		27°50'21"	97°03'37"	Sportsman Center North (1 dock with 26 wet slips; party boats)	
		(41)			(Kellers Marina Boat Ramp - Deleted 11/21/85)	
240	42		28°11'00"	97°13'00"	Mission River Ramp	
	52				Boat trailers at non-designated ramps	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Corpus Christi	260	1		27°50'16"	97°22'52"	South Nueces Causeway Public Ramp (North Nueces Causeway - Deleted 10/27/80)
	130	3	(2)	27°50'16"	97°13'15"	Ingleside Cove Public Ramp
	130	4		27°49'52"	97°13'29"	Bahia Mar Ramp (includes 46 wet slips)
	130	5		27°49'21"	97°12'58"	Channel View Ramp (Warrens - Deleted 5/15/79)
	284	7	(6)	27°53'22"	97°08'53"	Aransas Airport Ramp
	284	8		27°53'18"	97°06'42"	Fin & Feather Marina Ramp (includes 34 wet slips)
	130	9		27°44'14"	97°08'13"	Wilsons Cut Ramp
	130	10		27°42'39"	97°18'35"	Oso Bridge Public Ramp
	130	11		27°47'24"	97°23'22"	L-Head Public Ramp
	96	12		27°50'19"	97°04'00"	Port Aransas Public Ramp
	96	13		27°50'18"	97°03'44"	Woody's Ramp
	284	14		27°53'19"	97°08'44"	Causeway Ramp (includes 6 wet slips)
	284	15		27°51'26"	97°10'07"	Sun Oil Co. Ramp
	370	16		27°38'02"	97°14'09"	Billings' Ramp
	370	17		27°41'10"	97°15'31"	Naval Ramp (includes boats in boat houses and in wet slips)
	285	18		27°52'55"	97°05'57"	Redfish Bay Marina Ramp (includes rent boat and boats in wet slips)
	260	19		27°51'14"	97°21'30"	Gunderland Marine Ramp
	260	20		27°51'31"	97°21'04"	Portland Shell Bank Ramp
	280	21		27°53'58"	97°08'14"	South Conn Brown Harbor Public Ramp
	284	22		27°53'22"	97°08'48"	Harbor East and Mac
	284	23		27°53'22"	97°08'59"	Harbor West Docks (bulkhead with 65 wet slips)
	96	24		27°50'21"	97°03'53"	West City Docks (2 docks and bulkhead with 79 wet slips; party boats)
	96	25		27°50'22"	97°03'50"	East City Docks (2 docks and bulkhead with 70 wet slips; party boats)
	96	26		27°50'15"	97°03'59"	Deep Sea Headquarters Dock (10 party boat wet slips)
	96	27		27°50'17"	97°03'54"	Dolphin Docks (5 party boat wet slips)
	96	28		27°50'18"	97°03'42"	Woody's West Docks (3 docks with 47 wet slips; party boats)
	96	29		27°50'18"	97°03'40"	Woody's East Docks (3 docks with 57 wet slips; party boats)
	96	30		27°50'19"	97°03'37"	Sportsmen Center South Dock (1 dock with 40 wet slips; party boats)
	96	31		27°50'21"	97°03'37"	Sportsmen Center North Dock (1 dock with 26 wet slips; party boats)
	96	32		27°50'22"	97°03'33"	Fisherman's Wharf Dock (4 party boat wet slips)
	93	33		27°50'15"	97°03'11"	U.T. Boat Basin Dock (56 wet slips)
	52					<b>Boat trailers at non-designated ramps</b>

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Upper Laguna Madre	370	1		27°36'42"	97°17'40"	Bluff Landing Ramp (includes boats in wet slips)
	370	2		27°36'57"	97°17'40"	Jerry's Ramp
	370	3		27°37'44"	97°17'21"	Coburn's Ramp and Tropic Isles Ramp
	370	4		27°37'53"	97°17'21"	Laguna Marine Ramp
	370	5		27°39'44"	97°16'12"	Toll Gate Ramp
			(6)			(Whitt's - Deleted 5/15/82)
			(7)			(Fisherman's Folly - Deleted 5/15/81)
	370	8		27°38'03"	97°14'21"	Water Works Ramp & Rent Boats
	370	9		27°38'06"	97°14'21"	B.G.'s Ramp
			(10)			(Rainbow Ramp - Deleted 11/21/85)
	370	11		27°38'04"	97°14'16"	Clem's Ramp
	370	12		27°38'02"	97°14'09"	Billing's Ramp
	370	13		27°37'25"	97°13'31"	Padre Isle Investment (P.I.I.) Ramp I
	370	14		27°40'20"	97°16'09"	Boat Hole Ramp
	370	15		27°41'10"	97°15'31"	Naval Ramp
	80	16		27°19'08"	97°40'56"	Kaufers Ramp
	40	17		27°17'18"	97°39'41"	Kratz's Ramp
	211	18		27°16'38"	97°42'29"	Williamson's Ramp
	370	19		27°28'22"	97°18'31"	Bird Island Basin Ramp
			(20)			(Whiteleys Basin Ramp - Deleted 5/15/85)
	370	21		27°36'51"	97°18'04"	Padre Isle Investment Ramp II (White Cap and Caravel)
	370	22		27°36'08"	97°14'28"	Padre Isle Investment Ramp III (End of Cobo de Caba)
	370	23		27°36'42"	97°14'22"	Padre Isle Investment Ramp IV (Gypsy and Bounty Avenue)
	370	24		27°35'57"	97°13'50"	Padre Isle Investment Ramp V (Fortuna Bay and Monte Pelle)
	370	25		27°35'43"	97°13'51"	Padre Isle Investment Ramp VI (Encatada and Cruiser)
	370	26		27°35'21"	97°13'35"	Padre Isle Investment Ramp VII (Cartagena Street)
370	27		27°35'00"	97°14'29"	<b>Boat trailers at non-designated ramps</b>	
		52				
Lower Laguna Madre	230	1		26°06'09"	97°10'08"	Fisherman's Wharf (includes boats in wet slips; party boats)
	230	2		26°06'06"	97°10'08"	Jim's Ramp (includes boats in wet slips)
	230	3		26°05'05"	97°09'54"	Sea Ranch Ramp (includes party boats between boat ramp and headboat)

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification	
		In use	Deleted				
Lower Laguna Madre	230		(4)	26°05'03"	97°12'07"	(Jetties - Deleted 5/15/80)	
	294		(5)	26°00'07"	97°17'55"	(Marchant's - Deleted 9/1/78)	
	230		(6)	26°06'12"	97°17'25"	(Port Isabel - Deleted 9/1/76)	
	262	7		26°19'35"	97°27'15"	White Sands Ramp (includes boats in wet slips)	
	262	8		26°20'10"	97°26'35"	San Martin Ramp	
		9				Laguna Vista Ramp (includes boats in wet slips)	
		10				Arroyo Colorado Ramp	
		11				Sanchez Ramp	
		13	(12)		26°33'10"	97°25'40"	(Al's Place - Deleted 3/27/82)
		282			26°33'20"	97°25'41"	Willacy Navigation District Ramp
							Port Mansfield State Ramp
		17	(15)		26°33'05"	97°25'40"	(Redfish Motel Ramp (includes boats in wet slips - Deleted 5/15/84))
		18	(16)		26°04'42"	97°12'12"	(South Padre Marina - Deleted 3/27/82)
		19			26°04'36"	97°09'56"	Port Mansfield Boat Basin (includes boats in wet slips; party boats)
		20			26°05'55"	97°10'04"	Port Isabel Channel East Side (includes 45 wet slips in boat shed)
		262			26°14'15"	97°35'00"	Sea Ranch Motel (includes boat shed and wet slips)
		230			26°04'30"	97°12'55"	Palm Bay Pier Ramp (includes 15 wet slips)
		230			26°04'25"	07°12'54"	Rio Hondo Public Ramp
		230			26°03'52"	97°12'35"	Port Isabel City Ramp
		230			26°03'55"	97°12'33"	Travelers Trailer Park Ramp
		230			26°04'32"	97°12'55"	Southpoint Marina Ramp
		52					Southpoint Wet Slips (30 wet slips)
							Anchor Harbor Ramp (includes 22 wet slips)
							<b>Boat trailers at non-designated ramps</b>



Table B.2. Headboat sites in Texas bay systems (May 1978-May 1986).

Bay system	Passenger capacity	Site number		Minor bay	Headboat identification
		In use	Deleted		
Galveston	67		(81)	180	Kemah Clipper (Deleted 3-24-84)
	90	85			Old Buccaneer (Added 5-15-84)
	76	86			Lafitte (Added 9-1-82)
	80	95			Judy Beth (Added 12-3-81)
Corpus Christi	50	81	(82)	20	Whooping Crane
				20	Mary Lou (Deleted 9-28-83)
	100	89		130	Capt. Clark
	89	91		130	Star Trek
	30	94		20	Pisces (Added 5-15-84)
Lower Laguna Madre	75	81		230	Laguna Queen
	30	83		230	Albatross
	48	84		230	Danny B
	74		(88)	230	Majestic (Deleted 5-15-84)

Table B.3. Major area and minor bay codes for Texas marine waters (May 1974-May 1986).

Major area	Code
Minor bay	
Gulf of Mexico	17,18,19,20,21
Non-defined Gulf of Mexico area	989
Gulf of Mexico off Galveston-Freeport less than or = 10 miles	990
Gulf of Mexico off Galveston-Freeport greater than 10 miles	991
Gulf of Mexico off Matagorda-San Antonio less than or = 10 miles	992
Gulf of Mexico off Matagorda-San Antonio greater than 10 miles	993
Gulf of Mexico off Aransas-Corpus Christi-upper Laguna less than or = 10 miles	994
Gulf of Mexico off Aransas-Corpus Christi-upper Laguna greater than 10 miles	995
Gulf of Mexico off lower Laguna Madre less than or = 10 miles	996
Gulf of Mexico off lower Laguna Madre greater than 10 miles	997
Gulf of Mexico off Sabine Lake less than or = 10 miles	998
Gulf of Mexico off Sabine Lake greater than 10 miles	999
Sabine Lake System	1
Sabine Lake (includes Neches River downstream from bridge on Hwy. 87)	700
Keith Lake	701
Johnson Lake	702
Salt Lake	703
Fence Lake	704
Knight Lake	705
Lost Lake	706
Cabin Lake	707
Clam Lake	708
Star Lake	709
Sabine Pass (area between bridge on Hwy. 82 to end of jetties)	710
Willow Lake	711
Barnett Lake	712
Mud Lake	713
Sabine Lake area (includes saltwater areas behind the surflin from junction of Taylor Bayou Outfall Canal and ICWW to bridge over ICWW at High Island)	714
Galveston Bay System	2
Alligator Lake	11
Ash Lake	12
Bryan Lake	42
Bastrop Bay (includes Bastrop Bayou downstream from junction with Austin Bayou)	50
Burnett Bay	53
Black Duck Bay	54
Carancahua Lake	61
Cedar Lakes	62
Cotton Lake	63
Crystal Bay	64

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

Major area	Code
Minor bay	
Galveston Bay System (Cont'd.)	2
Bolivar Roads (area east of a line between the ferry landing on Port Bolivar to range marker at the Coast Guard station at Fort Point to the end of the jetties)	91
Quintana Channel (area between the ICWW southeast to the end of the jetties)	92
Chocolate Bay	100
Choctaw Lake	101
Christmas Bay	110
Clear Lake (includes Clear Creek downstream from the bridge on Hwy. 3)	111
Crab Lake	123
Cox Lake	131
Dickinson Bay (includes Dickinson Bayou downstream from bridge on ST 146)	141
Dollar Bay	142
Drum Bay	144
Cow Trap Lakes	145
East Bay (also includes all waters from bridge over ICWW at High Island to junction of ICWW and East Bay)	150
Freeport Bay Area (includes saltwater areas behind the surfline from Drum Pt. to Salt Bayou on the ICWW not defined with a minor bay code)	172
Galveston Bay	180
Green's Lake	181
Hall's Lake (includes Hall's Bayou downstream from the bridge on Hwy. 2004)	191
Horseshoe Lake	192
Jones Lake (includes Highland Bayou downstream from the railroad bridge that connects Texas City with the GC&SF railroad)	201
Jones Lake (Freeport area)	203
Lake Como	214
Lost Lake	222
Lost Bay	225
Moses Lake	241
McNeal Lake	244
Mud Lake	245
Nicks Lake	253
Oyster Lake (near Bastrop Bay)	261
Oyster Creek	265
Old Brazos River (from end of harbor to junction with ICWW)	266
Oyster Lake (Bolivar Peninsula)	267
Pelican Lake	268
Swan Lake (Freeport area)	269
Rollover Bay	286

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

Major area	Code
Minor bay	
Galveston Bay System (Cont'd.)	2
Salt Lake	291
Swan Lake (Galveston area)	311
Tabb's Bay	312
San Jacinto Bay	318
Scott Bay	319
Taylor Lake	321
Sweetwater Lake	324
Trinity Bay (includes Trinity River Delta south of Big Hog Bayou)	330
West Bay	350
Rollover Pass (area between junction with Rollover Bay and surflines)	500
San Luis Pass (area 1/2 mile bayward and 1/2 mile Gulfward off the Vacek bridge)	530
San Bernard River (includes all waters downstream from the Narrows subdivision to the junction with the Gulf)	560
Brazos River (includes all waters downstream from the Dow Chemical floodgate to the junction with the Gulf)	570
Matagorda Bay System	3
Boggy Lake	51
Carancahua Bay (downstream from where the Carancahua River enters the bay)	60
Matagorda Ship Channel (area from marker 13 southeast to end of jetties)	98
Chocolate Bay	112
Crab Lake	121
Coon Island Bay	122
Cox Bay	140
East Matagorda Bay (includes Caney Creek downstream from Sargent and also the ICWW from Salt Bayou to Caney Creek)	160
Freshwater Lake	171
Gottschalk Lake	182
Kilbride Lake	202
Keller Bay	210
Lavaca Bay (includes Lavaca River below the junction of Redfish Bayou and the Lavaca River)	220
Lake Austin	223
Live Oak Bay	224
McNabb Lake	242
Mad Island Lake	243
Oyster Lake	264
Powderhorn Lake	271
Pelton Lake	273
Redfish Lake (Carancahua Bay area)	281
Redfish Lake (Lavaca River area)	283

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

Major area	Code
Minor bay	
Matagorda Bay System (Cont'd.)	3
Robbins Lake	287
Salt Lake	292
Swan Lake	316
Tres Palacios Bay (includes Tres Palacios River downstream from bridge on F.M. 521)	320
Turtle Bay	340
Matagorda Bay	360
Venado Lake	371
Brown Cedar Cut (area between the two land masses southeast to the surflines)	580
Colorado River (includes all waters downstream from Selkirk Island to the junction with Gulf)	590
Pass Cavallo (area south of a line between Decros Pt. and Saluria Bayou to a line drawn between Marker 13 and the Matagorda Light on Matagorda Island)	620
San Antonio Bay System	4
Ayres Bay	30
Barroom Bay	52
Espiritu Santo Bay	170
Guadalupe Bay	190
Hynes Bay	200
Long Lake (Matagorda Island)	212
Lucas Lake	213
Long Lake (Guadalupe Delta)	215
Mustang Lake	251
Mission Lake	252
Pringle Lake	272
San Antonio Bay	300
Shoalwater Bay	301
Southpass Lake	302
Contee Lake	303
Long Lake (Aransas Wildlife Refuge)	304
Pats Bay	305
Power Lake	306
Twin Lakes	307
Cedar Lake	308
Panther Point Lake	309
Swan Lake (Guadalupe Delta)	322
Swan Lake (Matagorda Island)	323

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

Major area	Code
Minor bay	
Aransas Bay System	5
Allyns Lake	13
Aransas Bay	20
Big Brundrett Lake	43
Little Brundrett Lake	44
Carlos Bay	70
Cedar Bayou (area between a line drawn from Cedar Pt. southeast to the point of land on Matagorda Island to the surfline including Vincents Bayou)	90
Lydia Ann Channel (north of a line between Aransas Channel Marker 2 to Range Light on San Jose Island and south of a line between ICWW Marker 84 at north end of Lydia Ann Island)	94
Aransas Channel (area between Marker 4 in the Aransas Channel southeast to a line drawn between the Radio Beacon Tower and the range marker on San Jose Island)	95
Copano Bay (includes Aransas River downstream from the earthen dam)	120
Dunham Bay	143
Long Lake	226
Little Bay	227
Mission Bay (includes Mission River downstream from bridge on Hwy. 2678)	240
Mesquite Bay	250
Port Bay	270
Redfish Bay	280
South Bay (all waters inside of a line drawn from where Stedman Island and the low bridge connect, along the channel by Hog Island to Corpus Christi Bayou thence the Quarantine Shore to where the Aransas Shrimp Channel and Lydia Ann Channel meet thence along the west shore of the Aransas Shrimp Channel to marker 4 thence along the East Shore of the Shrimp Channel and then to the point of Stedman Island and the low bridge)	285
Salt Lake	293
St. Charles Bay	310
Sundown Bay	315
Swan Lake	317
Corpus Christi Bay System	6
Port Aransas Pass (area between a line drawn from the range marker on San Jose Island to the Radio Beacon Tower, to the end of the jetties)	93
Corpus Christi Channel (area west of a line between Fina Docks and Radio Beacon Tower to Marker 14 on the Corpus Christi Channel)	96

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

Major area	Code
Minor bay	
Corpus Christi Bay System (Cont'd.)	
Corpus Christi Bay	130
Nueces Bay	260
Oso Bay	263
Redfish Bay (a line running from the ICWW at the southwest end end of the Dagger Island chain, along Dagger Island to the Southeast tip of South Ransom Island, then due East to Harbor Island)	274
Sunset Lake	314
Water Exchange Channel (area between junction with Corpus Christi Bay and Gulf of Mexico surfline)	680
Upper Laguna Madre System	7
Alazan Bay	10
Baffin Bay	40
Cayo Del Grulla Bay	80
Laguna Salada	211
Upper Laguna Madre	370
Corpus Christi Pass (area between junction with Upper Laguna Madre and Gulf of Mexico surfline)	690
Lower Laguna Madre System	8
Brownsville Ship Channel (area from Marker 30 to Port Brownsville Turning Basin)	41
Port Mansfield Channel (area between Marker 12 and end of jetties)	97
Brazos Santiago Channel (area between a line drawn from the Radio Beacon due south to Brazos Island to the end of the jetties)	99
El Realito Bay	151
Lower Laguna Madre	230
Arroyo Colorado (includes all waters downstream from Port Harlingen to the junction with the ICWW)	262
Redfish Bay (includes all water between the Port Mansfield Channel and the Land Cut)	282
San Martin Lake	294
South Bay	313
East Matagorda Bay System (used by resource monitoring project only)	9

Appendix C: Estimation of Weekday Pressure and Landings for Private-Boat Fishermen.



Estimation of Weekday Pressure and Landings  
for Private-Boat Fishermen

The Texas Parks and Wildlife Department has conducted surveys of weekend private-boat fishing in seven bay systems since 1974 (Heffernan et al. 1976; Breuer et al. 1977; Green et al. 1978; McEachron 1980a, 1980b; McEachron and Green 1981, 1982, 1983, 1984; Osburn and Ferguson 1985a, 1986). Weekdays were monitored except from September 1976 to May 1979. Total annual and weekend bay and pass pressure (man-h) and finfish landings from May 1979 to May 1984 were used to develop a method for estimating weekday pressure and landings for years when weekdays were not surveyed.

The percent that weekend pressure and landings comprised of the total annual estimates were calculated for each bay system, season, year and by species for landings (Tables C.1., C.2.). These percents were transformed using arcsine  $\sqrt{\text{percent}}$  to assure a more normal distribution and equality of variances. Three-way analyses of variance were used to test for differences among bay systems and years. Data were pooled when no significant differences were found ( $P=0.05$ ). Separate adjustment factors were calculated when differences were found for bay systems or seasons.

No difference was found for pressure. Total annual weekend and weekday pressure ( $\hat{P}$ ) for May 1976-May 1979 was then estimated for each bay system and a coastwide basis using:

$$\hat{P} = \frac{WEP}{0.5469}$$

where WEP was the weekend pressure. Weekday pressure was obtained by subtracting weekend pressure from the estimated total annual pressure.

No differences among bay systems, seasons or years were found for sheepshead or southern flounder (Table C.3). Season was a significant factor for gafftopsail catfish only. Bay systems were significantly different for red drum, spotted seatrout and "other" species. Similar bay systems were grouped for each species (Table C.3.).

Years were significantly different for Atlantic croaker, black drum, gafftopsail catfish, sand seatrout and spotted seatrout. In all cases where differences were found the year 1979-80 and/or 1980-81 were different from later years. Adjustment factors were then calculated using pooled data from the later years. It was felt that 1979-80 and 1980-81 were not representative years due to the oil crisis that began in 1979. Gas was not available on Sundays in most areas. Gas prices also increased greatly. On weekends fishermen who do not live on the coast are most likely to visit the coast to go saltwater fishing. The lack of gas availability and high prices may have affected their visitation by restricting weekend travel in those years. Weekday fishermen generally live adjacent to the coast and their fishing frequency probably stayed the same. This shift in visitation would cause a change in the distribution of landings among weekends and weekdays.

Total weekend and weekday landings ( $\hat{L}_i$ ) were calculated for each species using:

$$\hat{L}_i = \frac{WEL_i}{P_i}$$

where WEL was the weekend landings and P was the adjustment factor for each pooled group of data i.

Table C.1. Weekend pressure (man-h) as a percent of total weekend and weekday pressure by bay system, season and year (May 1979-May 1984).

Bay system Year	Season	
	High-use	Low-use
Galveston		
1979-80	49	36
1980-81	28	62
1981-82	54	67
1982-83	56	40
1983-84	61	41
Matagorda		
1979-80	57	73
1980-81	56	57
1981-82	53	63
1982-83	58	44
1983-84	59	76
San Antonio		
1979-80	55	68
1980-81	60	95
1981-82	55	60
1982-83	65	31
1983-84	56	73
Aransas		
1979-80	90	50
1980-81	62	71
1981-82	52	39
1982-83	41	43
1983-84	69	28
Corpus Christi		
1979-80	24	67
1980-81	14	45
1981-82	47	36
1982-83	61	65
1983-84	56	39
Upper Laguna Madre		
1979-80	48	58
1980-81	74	53
1981-82	59	56
1982-83	67	57
1983-84	61	67
Lower Laguna Madre		
1979-80	51	61
1980-81	57	56
1981-82	60	40
1982-83	54	48
1983-84	54	40

Table C.2. Weekend landings of selected finfish as a percent of total weekend and weekday landings by bay system and season (1979-1984). Blank = none landed on weekends or weekdays.

Species Season	Year	Bay system							
		Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker High Use	1979-80	98	100	87	100	64	6	100	
	1980-81	29	28	27	47	9	52	34	
	1981-82	50	63	50	71	64	76	69	
	1982-83	46	55	82	76	27	87	61	
	1983-84	47	55	61	44	46	79	53	
Low Use	1979-80	71	63	83	0	86	100	100	
	1980-81	33	37			71	73	16	
	1981-82	26	100		0	33	83	80	
	1982-83	43	64	100	0	2	8	48	
	1983-84	45			100		0	0	
Black drum High Use	1979-80	98	41	86	100	100	100	7	
	1980-81	37	75	64	6	48	47	70	
	1981-82	12	57	13	15	23	78	69	
	1982-83	53	41	57	18	67	78	27	
	1983-84	27	50	78	77	58	65	47	
Low Use	1979-80	19	83	61	0	100	14	100	
	1980-81	65	43	93	100	67	55	55	
	1981-82	5	57	33	20	21	66	37	
	1982-83	7	8	17	8	61	38	49	
	1983-84	93	64	63	17	24	18	53	
Gafftopsail catfish High Use	1979-80	100	100	100	100	100	100	100	
	1980-81	85	100	33	100	100			
	1981-82	52	53	50	60	45	0		
	1982-83	18	69	54	47	38	64	55	
	1983-84	74	84	45	56	40	85	0	

Table C.2. (Cont'd.)

Species Season	Year	Bay system									
		Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre			
Gafftopsail catfish Low Use	1979-80	0		63		22	0				
	1980-81	0	45	100	100	42					
	1981-82	0	10		18	0	67				
	1982-83	0	0	33		58					
	1983-84	100	10	100	0	100					
Red drum High Use	1979-80	24	100	51	100	100	24			6	
	1980-81	10	69	45	51	31	70			47	
	1981-82	44	41	35	39	36	41			45	
	1982-83	60	49	58	30	69	50			50	
	1983-84	34	55	53	63	52	59			48	
Low Use	1979-80	18	88	62	38	80	61			73	
	1980-81	78	57	100	100	41	63			70	
	1981-82	10	94	79	66	33	67			43	
	1982-83	36	71	46	63	29	65			27	
	1983-84	40	52	90	30	3	19			53	
Sand seatrout High Use	1979-80	41	100	51	100	17	7			8	
	1980-81	22	9	33	92	5	37			56	
	1981-82	20	48	80	20	54	36			67	
	1982-83	57	46	68	37	49	47			74	
	1983-84	39	68	64	28	48	72			70	
Low Use	1979-80	81	100			42	86			100	
	1980-81	6				73	99			60	
	1981-82	0	45		80	28	14			34	
	1982-83	0	0	5	19	14	50			3	
	1983-84	99	5	100	80	0				4	

Table C.2. (Cont'd.)

Species Season	Year	Bay system							
		Calveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Sheepshead High Use	1979-80	42	42	34	100	100	100	100	9
	1980-81	28	74	45	51	3	79	39	39
	1981-82	25	47	55	34	25	36	57	57
	1982-83	47	20	42	39	55	59	30	30
	1983-84	44	51	59	43	34	60	40	40
Low Use	1979-80	1	100	25	0	61	10	43	43
	1980-81	22	89	100	1	34	39	48	48
	1981-82	22	71	76	73	5	69	5	5
	1982-83	84	5	17	5	38	63	14	14
	1983-84	51	59	67	3	7	0	11	11
Southern flounder High Use	1979-80	6	100	19	100	100	17	42	42
	1980-81	19	38	70	49	2	75	57	57
	1981-82	41	15	46	37	10	50	42	42
	1982-83	57	35	72	57	41	73	45	45
	1983-84	51	74	68	68	34	55	47	47
Low Use	1979-80	1	67	90	100	59	60	73	73
	1980-81	93	100	100	97	4	32	73	73
	1981-82	62	53	13	40	57	84	50	50
	1982-83	83	44	4	36	55	40	51	51
	1983-84	10	20	75	8	33	0	41	41
Spotted seatrout High Use	1979-80	78	59	28	78	65	61	38	38
	1980-81	5	42	59	41	22	71	51	51
	1981-82	21	47	45	34	45	56	59	59
	1982-83	49	32	51	31	37	58	45	45
	1983-84	44	44	44	59	49	59	42	42

Table C.2. (Cont'd.)

Species Season	Year	Bay system							
		Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Spotted seatrout Low Use	1979-80	67	75	34	75	65	50	53	
	1980-81	6	54	79	56	37	51	37	
	1981-82	34	75	61	31	25	40	41	
	1982-83	14	21	22	18	43	41	38	
	1983-84	19	85	88	5	1	69	21	
Other High Use	1979-80	68	100	31	100	25	1	14	
	1980-81	55	39	61	83	12	84	40	
	1981-82	43	47	44	29	41	72	82	
	1982-83	50	60	70	37	46	85	68	
	1983-84	30	75	70	37	61	68	59	
Low Use	1979-80	100	100	100	100	4	71	31	
	1980-81	31	96	100	100	49	89	39	
	1981-82	84	25	50	77	24	83	20	
	1982-83	18		27	21	64	79	3	
	1983-84	31	90	100	80	29	97	11	

Table C.3. Adjustment factors (%) for calculating total annual weekend and weekday landings from weekend landings for selected species.

Species	Adjustment factor (%)	Bay systems <sup>a</sup>	Seasons <sup>b</sup>	Years used for % <sup>c</sup>
Atlantic croaker	0.5000	all	all	1980-81 to 1983-84
Black drum	0.4212	all	all	1981-82 to 1983-84
Gafftopsail catfish	0.4945	all	high use	1981-82 to 1983-84
	0.3973	all	low use	1981-82 to 1983-84
Red drum	0.4523	2,6,7,8	all	all
	0.6250	3,4,5	all	all
Sand seatrout	0.4243	all	all	1980-81 to 1983-84
Sheepshead	0.4237	all	all	all
Southern flounder	0.5029	all	all	all
Spotted seatrout	0.3025	2,5,6	all	1980-81 to 1983-84
	0.5392	3,4,7	all	1980-81 to 1983-84
	0.4175	8	all	1980-81 to 1983-84
Other	0.4107	2,6,8	all	all
	0.6784	3,4,5,7	all	all

<sup>a</sup>2=Galveston, 3=Matagorda, 4=San Antonio, 5=Aransas, 6=Corpus Christi, 7=upper Laguna Madre, 8=lower Laguna Madre, all=all bay systems were pooled.

<sup>b</sup>All means both the high and low use seasons were pooled.

<sup>c</sup>All means that all years (1979-80 to 1983-84) were pooled.



Appendix D: Estimates for private-boat fishing in Texas bays and passes.

Table D.1. Number of weekend days surveyed and number of private-boat fishermen interviewed ( ) in Texas bays and passes by season and bay system (1974-86). ND = no data.

Year Season	Bay System										Coastwide	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre			
			5	8			7	9	5	17		
1974-76												
High use	7 (865)	5 (99)	13 (1259)	7 (238)	5 (121)	9 (459)	5 (181)				51 (3222)	
Low use	11 (312)	8 (130)	19 (471)	12 (199)	11 (202)	12 (346)	10 (253)				84 (1913)	
Annual	18 (1177)	14 (229)	32 (1730)	19 (437)	16 (323)	21 (805)	15 (434)				135 (5135)	
1976-77												
High use	15 (541)	17 (264)	8 (344)	8 (306)	15 (492)	8 (290)	17 (732)				88 (2969)	
Low use	29 (235)	17 (109)	13 (184)	14 (168)	16 (305)	15 (147)	15 (373)				119 (1521)	
Annual	44 (776)	34 (373)	21 (528)	22 (474)	31 (797)	23 (437)	32 (1105)				207 (4490)	
1977-78												
High use	34 (1285)	16 (471)	18 (826)	17 (481)	16 (429)	16 (299)	16 (706)				133 (4497)	
Low use	31 (486)	15 (231)	14 (435)	16 (178)	15 (223)	15 (323)	16 (601)				122 (2477)	
Annual	65 (1771)	31 (702)	32 (1261)	33 (659)	31 (652)	31 (622)	32 (1307)				255 (6974)	
1978-79												
High use	32 (1817)	17 (596)	18 (962)	16 (380)	18 (500)	17 (596)	17 (700)				135 (5551)	
Low use	32 (532)	15 (106)	15 (448)	16 (164)	14 (183)	16 (338)	15 (311)				123 (2082)	
Annual	64 (2349)	32 (702)	33 (1410)	32 (544)	32 (683)	33 (934)	32 (1011)				258 (7633)	
1979-80												
High use	27 (913)	18 (433)	21 (1010)	17 (308)	18 (475)	15 (474)	17 (666)				133 (4279)	
Low use	15 (173)	12 (286)	21 (650)	14 (107)	15 (545)	16 (463)	15 (485)				108 (2709)	
Annual	42 (1086)	30 (719)	42 (1660)	31 (415)	33 (1020)	31 (937)	32 (1151)				241 (6988)	
1980-81												
High use	17 (870)	17 (535)	22 (1099)	17 (322)	17 (583)	18 (1076)	17 (690)				125 (5175)	
Low use	8 (96)	8 (71)	9 (231)	9 (91)	8 (302)	7 (256)	8 (342)				57 (1389)	
Annual	25 (966)	25 (606)	31 (1330)	26 (413)	25 (885)	25 (1332)	25 (1032)				182 (6564)	
1981-82												
High use	27 (775)	27 (546)	21 (693)	27 (614)	27 (1276)	27 (1280)	23 (1239)				179 (6423)	
Low use	12 (178)	12 (115)	12 (311)	12 (58)	12 (259)	12 (325)	12 (377)				84 (1623)	
Annual	39 (953)	39 (661)	33 (1004)	39 (672)	39 (1535)	39 (1605)	35 (1616)				263 (8046)	

Table D.1. (Cont'd.)

Year Season	Bay System										Coastwide	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower			
			27	12			Laguna	Madre	Laguna	Madre		
1982-83												
High use	31 (1669)	27 (650)	27 (1031)	27 (422)	27 (1104)	27 (1903)	23 (1593)	189 (8372)				
Low use	12 (64)	12 (66)	12 (251)	12 (71)	12 (453)	12 (342)	12 (581)	84 (1828)				
Annual	43 (1733)	39 (716)	39 (1282)	39 (493)	39 (1557)	39 (2245)	35 (2174)	273 (10200)				
1983-84												
High use	32 (583)	31 (702)	26 (1351)	31 (873)	31 (940)	31 (2656)	31 (1771)	213 (8876)				
Low use	12 (110)	13 (133)	12 (230)	12 (24)	12 (174)	12 (133)	12 (243)	85 (1047)				
Annual	44 (693)	44 (835)	38 (1581)	43 (897)	43 (1114)	43 (2789)	43 (2014)	298 (9923)				
1984-85												
High use	31 (1672)	31 (1399)	26 (1025)	31 (820)	31 (666)	31 (683)	31 (1660)	212 (7924)				
Low use	12 (161)	12 (407)	12 (265)	12 (198)	12 (298)	12 (326)	12 (410)	84 (2065)				
Annual	43 (1833)	43 (1806)	38 (1290)	43(1018)	43 (964)	43 (1009)	43 (2070)	296 (9989)				
1985-86												
High use	31 (1188)	31 (1289)	26 (1006)	31(1168)	31 (823)	31 (1980)	31 (1907)	212 (9360)				
Low use	12 (426)	12 (250)	12 (197)	12 (334)	12 (330)	12 (596)	12 (300)	84 (2433)				
Annual	43 (1614)	43 (1539)	38 (1203)	43(1502)	43 (1153)	43 (2576)	43 (2207)	296 (11793)				

Table D.2. Number of weekdays surveyed and number of private-boat weekday fishermen interviewed ( ) in Texas bays and passes by season and bay system (1974-1986). ND = no data.

Year Season	Bay System										Coastwide	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre			
			4	18			8	8	12	4		8
1974-76												
High use	8 (68)	4 (25)	18 (169)	8 (42)	4 (25)	4 (54)	12 (62)	4 (54)	58 (445)			
Low use	8 (112)	7 (10)	15 (145)	8 (91)	8 (96)	8 (41)	8 (51)	8 (41)	62 (546)			
Annual	16 (180)	11 (35)	33 (314)	16 (133)	12 (121)	12 (95)	20 (113)	12 (95)	120 (991)			
1976-77												
High use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Low use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Annual	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1977-78												
High use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Low use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Annual	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1978-79												
High use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Low use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Annual	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1979-80												
High use	6 (32)	4 (6)	7 (128)	3 (8)	7 (32)	4 (54)	3 (16)	4 (54)	34 (276)			
Low use	7 (31)	8 (9)	16 (126)	8 (28)	8 (26)	7 (71)	7 (71)	7 (25)	61 (316)			
Annual	13 (63)	12 (15)	23 (254)	11 (36)	15 (58)	11 (87)	10 (87)	11 (79)	95 (592)			
1980-81												
High use	24 (476)	25 (95)	28 (428)	26 (206)	25 (444)	25 (255)	26 (202)	25 (255)	179 (2106)			
Low use	16 (196)	13 (46)	15 (33)	14 (64)	13 (72)	14 (101)	14 (103)	14 (101)	99 (615)			
Annual	40 (672)	38 (141)	43 (461)	40 (270)	38 (516)	39 (356)	40 (305)	39 (356)	278 (2721)			
1981-82												
High use	61 (761)	61 (398)	57 (856)	61 (491)	60 (1120)	55 (809)	61 (556)	55 (809)	416 (4991)			
Low use	24 (96)	24 (61)	24 (152)	24 (223)	24 (152)	24 (398)	24 (139)	24 (398)	168 (1221)			
Annual	85 (857)	85 (459)	81 (1008)	85 (714)	84 (1272)	79 (1207)	85 (695)	79 (1207)	584 (6212)			

Table D.2. (Cont'd.)

Year Season	Bay System										Coastwide	
	Calveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower			
			Matagorda	San Antonio			Laguna	Madre	Laguna	Madre		
1982-83												
High use	66 (811)	61 (468)	55 (719)	61 (439)	61 (738)	61 (810)	55 (1221)	420 (5206)				
Low use	24 (183)	24 (91)	24 (341)	24 (155)	24 (150)	24 (183)	24 (684)	168 (1787)				
Annual	90 (994)	85 (559)	79 (1060)	85 (594)	85 (888)	85 (993)	79 (1905)	588 (6993)				
1983-84												
High use	63 (720)	63 (949)	45 (877)	64 (845)	66 (994)	66 (1390)	66 (1326)	433 (7101)				
Low use	24 (130)	23 (100)	24 (74)	24 (114)	24 (104)	24 (54)	24 (180)	167 (756)				
Annual	87 (850)	86 (1049)	69 (951)	88 (959)	90 (1098)	90 (1444)	90 (1506)	600 (7857)				
1984-85												
High use	65 (965)	65 (659)	46 (416)	65 (586)	66 (724)	66 (372)	66 (981)	439 (4703)				
Low use	24 (109)	24 (163)	24 (67)	24 (135)	24 (117)	24 (72)	24 (223)	168 (886)				
Annual	89 (1074)	89 (822)	70 (483)	89 (721)	90 (841)	90 (444)	90 (1204)	607 (5584)				
1985-86												
High use	66 (692)	66 (755)	46 (624)	66 (926)	66 (808)	66 (746)	66 (830)	442 (5381)				
Low use	24 (113)	24 (162)	24 (54)	24 (311)	24 (239)	24 (187)	24 (317)	168 (1383)				
Annual	90 (805)	90 (917)	70 (678)	90(1237)	90 (1047)	90 (933)	90 (1147)	610 (6764)				

Table D.3. Bay and pass private-boat fishing pressure estimates (man-h x 1000)  $\pm$  1 SE by season, day type and bay system, 15 May 1974-14 May 1986.

Bay system	High-use season			Low-use season			Annual
	Year	Weekend	Weekday	Weekend	Weekday	Weekday	
Galveston	1974-76	684.9 $\pm$ 372.8	1210.2 $\pm$ 566.6	505.5 $\pm$ 143.3	465.0 $\pm$ 192.0	2865.6 $\pm$ 719.4	
	1976-77	481.8 $\pm$ 84.4	399.2	82.5 $\pm$ 26.7	68.3	1031.8	
	1977-78	1019.2 $\pm$ 221.2	844.4	171.3 $\pm$ 40.2	141.9	2176.8	
	1978-79	893.7 $\pm$ 124.2	740.4	184.8 $\pm$ 73.6	153.1	1972.0	
	1979-80	675.7 $\pm$ 87.0	698.4 $\pm$ 628.5	225.6 $\pm$ 77.0	402.2 $\pm$ 275.0	2002.0 $\pm$ 695.8	
	1980-81	465.4 $\pm$ 96.3	1209.1 $\pm$ 344.7	303.1 $\pm$ 153.1	182.3 $\pm$ 59.8	2159.9 $\pm$ 387.2	
	1981-82	809.1 $\pm$ 193.0	692.1 $\pm$ 157.8	257.5 $\pm$ 72.9	125.3 $\pm$ 39.2	1884.1 $\pm$ 262.7	
	1982-83	823.3 $\pm$ 110.5	636.2 $\pm$ 93.9	81.5 $\pm$ 44.5	123.5 $\pm$ 48.6	1664.5 $\pm$ 159.3	
	1983-84	937.2 $\pm$ 409.9	509.5 $\pm$ 80.3	262.7 $\pm$ 137.0	378.6 $\pm$ 263.0	2087.9 $\pm$ 512.2	
	1984-85	764.8 $\pm$ 105.4	439.7 $\pm$ 53.0	152.7 $\pm$ 85.8	146.1 $\pm$ 73.3	1503.3 $\pm$ 163.3	
	1985-86	678.9 $\pm$ 125.2	444.6 $\pm$ 66.9	668.8 $\pm$ 474.2	130.1 $\pm$ 58.1	1922.4 $\pm$ 498.4	
	Matagorda	1974-76	357.3 $\pm$ 127.3	124.2 $\pm$ 98.0	123.5 $\pm$ 73.2	25.8 $\pm$ 17.6	630.8 $\pm$ 177.4
		1976-77	126.8 $\pm$ 39.0	141.7	52.4 $\pm$ 22.6	43.4	364.3
		1977-78	206.6 $\pm$ 47.7	171.2	75.5 $\pm$ 33.2	62.5	515.8
1978-79		257.5 $\pm$ 48.4	213.3	71.9 $\pm$ 30.4	59.5	602.3	
1979-80		165.0 $\pm$ 35.0	125.5 $\pm$ 125.5	80.8 $\pm$ 23.8	30.1 $\pm$ 21.3	401.4 $\pm$ 134.2	
1980-81		292.9 $\pm$ 63.5	233.9 $\pm$ 164.4	63.2 $\pm$ 27.2	47.1 $\pm$ 25.4	637.2 $\pm$ 180.1	
1981-82		216.3 $\pm$ 34.7	188.6 $\pm$ 32.9	59.2 $\pm$ 19.8	34.1 $\pm$ 10.0	498.2 $\pm$ 52.7	
1982-83		193.7 $\pm$ 35.7	139.3 $\pm$ 18.3	26.2 $\pm$ 9.0	33.8 $\pm$ 7.9	393.0 $\pm$ 41.9	
1983-84		308.5 $\pm$ 48.4	209.7 $\pm$ 30.7	107.5 $\pm$ 47.2	38.3 $\pm$ 15.9	664.0 $\pm$ 76.0	
1984-85		192.1 $\pm$ 28.0	140.6 $\pm$ 21.1	135.6 $\pm$ 37.9	60.7 $\pm$ 27.3	529.0 $\pm$ 58.4	
1985-86		251.9 $\pm$ 58.8	134.7 $\pm$ 16.1	94.0 $\pm$ 37.1	78.1 $\pm$ 19.1	558.7 $\pm$ 73.8	
San Antonio		1974-76	156.5 $\pm$ 39.2	64.7 $\pm$ 17.6	59.2 $\pm$ 9.9	43.5 $\pm$ 11.9	323.9 $\pm$ 45.7
		1976-77	119.8 $\pm$ 34.5	99.3	43.6 $\pm$ 23.4	36.1	298.8
		1977-78	116.4 $\pm$ 27.6	96.4	51.1 $\pm$ 9.4	42.3	306.2
	1978-79	120.6 $\pm$ 19.6	99.9	35.8 $\pm$ 7.3	29.7	286.0	
	1979-80	81.4 $\pm$ 11.9	67.8 $\pm$ 14.8	53.9 $\pm$ 21.6	25.7 $\pm$ 9.3	228.8 $\pm$ 30.2	
	1980-81	83.3 $\pm$ 15.4	54.8 $\pm$ 10.1	86.9 $\pm$ 43.2	4.4 $\pm$ 1.6	229.4 $\pm$ 47.0	
	1981-82	78.5 $\pm$ 13.1	62.8 $\pm$ 9.6	26.5 $\pm$ 6.5	17.6 $\pm$ 4.7	185.3 $\pm$ 18.2	
	1982-83	144.9 $\pm$ 23.5	78.5 $\pm$ 12.5	18.8 $\pm$ 4.7	41.4 $\pm$ 10.4	283.7 $\pm$ 28.9	
	1983-84	124.0 $\pm$ 20.1	98.8 $\pm$ 19.9	32.7 $\pm$ 12.8	17.1 $\pm$ 7.0	272.5 $\pm$ 31.8	
	1984-85	69.1 $\pm$ 7.1	38.4 $\pm$ 6.3	28.2 $\pm$ 8.1	8.1 $\pm$ 2.5	143.7 $\pm$ 12.7	
1985-86	82.4 $\pm$ 13.7	60.4 $\pm$ 10.6	30.8 $\pm$ 11.2	13.4 $\pm$ 4.6	186.9 $\pm$ 21.2		

Table D.3. (Cont'd.)

Bay system	High-use season			Low-use season			Annual <sup>b</sup>
	Year	Weekday <sup>a</sup>		Weekend	Weekday <sup>a</sup>		
		Weekend	Weekday		Weekend	Weekday	
<b>Arenas</b>							
1974-76	170.6 ± 71.4	150.2 ± 56.4	73.0 ± 20.7	139.4 ± 41.7	533.3 ± 102.2		
1976-77	161.4 ± 26.1	133.7	58.6 ± 17.5	48.5	402.2		
1977-78	127.0 ± 21.6	105.2	54.7 ± 15.4	45.3	332.2		
1978-79	131.4 ± 17.4	108.9	42.1 ± 9.6	34.9	317.3		
1979-80	125.8 ± 26.0	14.7 ± 14.7	20.1 ± 6.6	20.1 ± 12.7	180.6 ± 33.1		
1980-81	119.3 ± 34.6	73.8 ± 12.7	42.0 ± 9.9	17.1 ± 6.9	252.3 ± 38.8		
1981-82	157.3 ± 24.9	144.7 ± 26.4	50.2 ± 20.1	80.1 ± 20.0	432.3 ± 46.1		
1982-83	133.2 ± 38.5	190.8 ± 31.4	48.9 ± 20.0	66.1 ± 18.7	439.0 ± 56.8		
1983-84	396.0 ± 128.2	160.4 ± 23.7	17.6 ± 10.9	45.3 ± 20.5	619.3 ± 132.4		
1984-85	137.3 ± 25.7	127.4 ± 26.2	75.9 ± 34.5	73.3 ± 30.5	414.0 ± 58.9		
1985-86	258.7 ± 42.8	178.2 ± 20.4	111.7 ± 31.5	164.1 ± 40.0	712.8 ± 69.5		
<b>Corpus Christi</b>							
1974-76	103.9 ± 41.4	38.8 ± 15.2	50.9 ± 12.6	73.2 ± 27.2	266.7 ± 53.3		
1976-77	66.9 ± 14.3	76.5	37.4 ± 14.7	31.0	211.8		
1977-78	83.8 ± 16.7	69.4	27.1 ± 5.7	22.5	202.8		
1978-79	113.0 ± 17.8	93.6	58.8 ± 19.4	48.7	314.1		
1979-80	79.4 ± 13.4	256.0 ± 222.2	79.4 ± 22.0	39.6 ± 12.3	454.5 ± 224.1		
1980-81	82.0 ± 14.7	497.1 ± 226.7	71.9 ± 26.5	88.4 ± 38.2	739.4 ± 231.8		
1981-82	109.7 ± 10.4	125.8 ± 28.4	42.0 ± 9.0	74.7 ± 13.3	352.2 ± 34.3		
1982-83	147.2 ± 23.7	92.5 ± 132.3	137.4 ± 50.2	74.7 ± 17.4	451.8 ± 59.7		
1983-84	393.5 ± 193.8	299.4 ± 92.6	27.3 ± 11.6	42.2 ± 16.4	762.4 ± 215.7		
1984-85	134.3 ± 26.8	152.7 ± 30.8	191.5 ± 61.8	59.8 ± 33.8	538.2 ± 81.4		
1985-86	140.4 ± 39.8	186.3 ± 36.0	140.7 ± 70.3	141.8 ± 37.6	609.2 ± 96.1		
<b>Upper Laguna Madre</b>							
1974-76	117.1 ± 29.1	212.8 ± 67.3	298.0 ± 127.7	99.3 ± 43.8	727.1 ± 153.6		
1976-77	171.8 ± 34.0	142.3	62.3 ± 20.0	51.6	428.0		
1977-78	98.2 ± 18.1	81.3	101.2 ± 27.2	83.8	364.5		
1978-79	132.5 ± 20.2	109.8	65.9 ± 14.5	54.6	362.8		
1979-80	139.3 ± 30.6	149.6 ± 34.3	108.3 ± 24.5	78.9 ± 24.2	476.0 ± 57.4		
1980-81	392.9 ± 57.7	137.1 ± 27.3	164.4 ± 103.9	147.5 ± 78.6	841.9 ± 145.1		
1981-82	371.2 ± 79.1	258.4 ± 98.2	126.3 ± 43.9	99.7 ± 59.7	855.7 ± 146.2		
1982-83	404.0 ± 56.9	197.3 ± 32.8	105.2 ± 36.0	80.3 ± 20.7	786.8 ± 77.6		
1983-84	402.7 ± 51.7	259.0 ± 40.6	46.0 ± 13.1	22.3 ± 10.2	730.1 ± 67.8		
1984-85	103.6 ± 21.2	73.7 ± 15.7	78.6 ± 28.4	84.5 ± 48.2	340.4 ± 61.9		
1985-86	359.6 ± 61.9	130.2 ± 26.2	293.9 ± 117.3	98.6 ± 27.2	882.4 ± 137.9		

Table D.3. (Cont'd.)

Bay system	High-use season		Low-use season		Annual <sup>b</sup>
	Weekend	Weekday <sup>a</sup>	Weekend	Weekday <sup>a</sup>	
Lower Laguna Madre					
1974-76	299.7 ± 130.0	201.0 ± 44.6	182.7 ± 83.3	156.7 ± 78.7	840.1 ± 179.0
1976-77	178.2 ± 31.2	238.9	143.0 ± 75.2	118.5	678.6
1977-78	208.4 ± 53.4	172.7	112.8 ± 22.0	93.5	587.4
1978-79	240.9 ± 77.7	199.6	48.3 ± 11.3	40.0	528.8
1979-80	115.7 ± 19.0	112.2 ± 60.8	107.9 ± 27.9	67.7 ± 41.8	403.5 ± 81.2
1980-81	134.6 ± 28.6	100.9 ± 44.7	83.9 ± 29.8	65.5 ± 20.1	384.9 ± 64.1
1981-82	134.6 ± 17.1	88.0 ± 9.8	48.5 ± 13.0	71.7 ± 12.7	342.8 ± 26.9
1982-83	215.6 ± 22.6	180.3 ± 22.1	80.2 ± 13.3	85.5 ± 19.0	561.6 ± 39.2
1983-84	200.7 ± 21.1	172.6 ± 19.4	56.1 ± 19.1	83.0 ± 26.4	512.5 ± 43.4
1984-85	195.1 ± 37.5	136.5 ± 16.1	167.5 ± 36.2	114.0 ± 35.1	613.1 ± 64.9
1985-86	230.1 ± 25.6	133.5 ± 16.9	121.0 ± 33.5	121.0 ± 30.7	605.6 ± 54.8
Coastwide <sup>b</sup>					
1974-76	1889.9 ± 275.7	2001.9 ± 455.5	1292.8 ± 130.5	1002.9 ± 130.7	6187.5 ± 516.9
1976-77	1306.7 ± 113.3	1231.5	479.9 ± 91.5	397.6	3415.7
1977-78	1859.8 ± 236.5	1540.8	593.6 ± 65.5	491.8	4486.0
1978-79	1889.6 ± 158.7	1565.5	507.6 ± 84.8	420.5	4383.2
1979-80	1382.3 ± 105.3	1424.2 ± 682.2	676.0 ± 94.2	664.3 ± 280.7	4146.8 ± 751.1
1980-81	1570.5 ± 138.2	2306.7 ± 447.4	815.4 ± 182.6	552.3 ± 110.9	5245.0 ± 514.7
1981-82	1876.6 ± 214.3	1560.4 ± 193.1	610.2 ± 91.3	503.2 ± 77.2	4550.5 ± 312.3
1982-83	2061.8 ± 140.8	1515.0 ± 109.7	498.3 ± 80.5	505.3 ± 63.1	4580.4 ± 205.7
1983-84	2762.6 ± 477.3	1709.4 ± 137.7	549.9 ± 148.2	626.8 ± 266.4	5648.7 ± 582.8
1984-85	1596.4 ± 123.2	1108.9 ± 73.7	829.9 ± 126.4	546.6 ± 108.4	4081.8 ± 219.9
1985-86	2002.1 ± 165.0	1267.8 ± 86.8	1460.9 ± 497.1	747.1 ± 92.0	5477.9 ± 538.8

<sup>a</sup>For 1976-1977 to 1978-1979 weekday pressure was estimated from weekend pressure and no standard errors are available.

<sup>b</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.



Table D.4. Annual estimated landings of fishes (No. x 1000) ± 1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1974-1986).

Species Year	Bay system							Upper			Lower			Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
<b>Atlantic croaker</b>														
1974-76	699.1 ± 308.9	19.7 ± 9.5	6.0 ± 2.1	3.8 ± 2.2	12.5 ± 5.5	152.4 ± 86.5	11.9 ± 5.8	905.4 ± 220.2						
1976-77	536.0	26.6	1.2	6.4	21.2	33.9	17.5	642.8						
1977-78	875.2	24.1	1.0	4.1	16.2	34.9	11.3	966.8						
1978-79	481.8	25.0	2.8	1.2	16.8	67.8	9.0	604.4						
1979-80	250.5 ± 89.9	8.3 ± 3.1	2.0 ± 1.0	1.5 ± 0.8	11.8 ± 4.5	106.8 ± 57.6	2.3 ± 0.6	383.2 ± 106.9						
1980-81	372.2 ± 197.9	48.3 ± 24.2	1.6 ± 0.7	1.5 ± 0.5	149.1 ± 118.3	30.6 ± 8.1	7.4 ± 3.0	610.7 ± 232.0						
1981-82	192.8 ± 48.1	6.6 ± 2.2	0.6 ± 0.3	1.3 ± 0.5	41.9 ± 22.1	29.3 ± 8.7	3.0 ± 0.7	275.6 ± 53.8						
1982-83	179.5 ± 32.4	7.8 ± 2.2	1.2 ± 0.4	6.9 ± 3.9	20.2 ± 5.6	25.6 ± 13.5	8.0 ± 1.6	249.2 ± 35.8						
1983-84	159.4 ± 36.1	11.3 ± 3.8	1.3 ± 0.5	37.4 ± 13.6	38.3 ± 13.2	26.7 ± 5.2	4.6 ± 0.8	278.9 ± 41.3						
1984-85	213.8 ± 42.0	7.0 ± 2.0	0.3 ± 0.2	4.7 ± 1.8	8.1 ± 2.7	2.6 ± 0.9	4.1 ± 1.5	240.7 ± 42.2						
1985-86	214.5 ± 42.0	12.1 ± 4.1	0.2 ± 0.1	12.9 ± 4.5	10.9 ± 4.0	17.0 ± 3.7	6.4 ± 1.3	274.4 ± 42.8						
<b>Black drum</b>														
1974-76	35.2 ± 11.4	20.5 ± 12.2	2.9 ± 0.9	18.2 ± 14.7	13.9 ± 5.4	12.5 ± 6.2	25.1 ± 13.5	128.3 ± 14.7						
1976-77	67.0	15.6	37.0	7.2	5.9	16.3	9.9	159.0						
1977-78	111.9	26.2	8.1	5.2	5.6	8.3	12.8	178.1						
1978-79	94.8	20.4	5.6	1.8	2.8	6.2	18.0	149.6						
1979-80	37.2 ± 10.1	13.4 ± 6.3	2.0 ± 0.7	9.8 ± 5.8	3.6 ± 1.4	7.1 ± 5.7	4.3 ± 1.8	77.4 ± 14.6						
1980-81	87.1 ± 31.7	44.7 ± 15.5	2.5 ± 0.8	1.7 ± 0.8	8.3 ± 2.7	7.0 ± 2.5	6.4 ± 2.6	157.7 ± 35.6						
1981-82	59.9 ± 20.7	24.8 ± 4.9	9.0 ± 4.4	15.6 ± 5.0	8.6 ± 3.0	9.2 ± 3.7	5.5 ± 1.7	132.6 ± 22.9						
1982-83	105.8 ± 37.5	24.6 ± 5.7	4.2 ± 1.3	8.2 ± 3.0	11.5 ± 2.9	9.0 ± 2.1	7.9 ± 1.7	171.2 ± 38.3						
1983-84	26.7 ± 5.8	22.2 ± 4.9	3.5 ± 1.2	11.2 ± 3.1	8.0 ± 2.1	3.0 ± 1.0	6.2 ± 2.1	80.7 ± 8.9						
1984-85	24.3 ± 4.9	13.6 ± 3.5	1.5 ± 0.6	5.4 ± 4.9	3.8 ± 1.5	0.7 ± 0.4	5.1 ± 2.5	55.5 ± 8.4						
1985-86	27.1 ± 7.0	8.4 ± 3.5	1.0 ± 0.6	2.6 ± 1.2	13.1 ± 6.6	8.0 ± 2.9	4.7 ± 1.5	60.0 ± 10.8						
<b>Gafftopsail catfish</b>														
1974-76	42.8 ± 30.1	17.6 ± 10.3	4.2 ± 1.5	12.7 ± 8.4	3.3 ± 3.0	0.0	0.0	80.6 ± 21.7						
1976-77	17.6	43.0	6.2	3.8	6.9	0.0	0.0	77.6						
1977-78	7.2	32.3	6.3	2.2	1.4	0.0	0.0	49.4						
1978-79	31.0	28.0	3.8	5.8	6.9	<.1	0.4	76.0						
1979-80	3.1 ± 2.0	1.4 ± 0.7	1.1 ± 0.4	0.1 ± 0.1	4.1 ± 2.7	0.2 ± 0.2	0.0	10.2 ± 3.4						
1980-81	14.5 ± 8.6	1.5 ± 0.8	0.6 ± 0.3	0.6 ± 0.3	1.9 ± 0.9	<.1 ± <.1	0.1 ± 0.1	19.1 ± 8.7						
1981-82	4.2 ± 2.1	7.0 ± 3.0	0.9 ± 0.5	3.3 ± 1.8	16.5 ± 14.1	0.3 ± 0.2	<.1 ± <.1	32.2 ± 14.7						
1982-83	5.2 ± 2.4	3.8 ± 1.2	3.1 ± 0.9	1.8 ± 0.7	6.9 ± 2.2	<.1 ± <.1	0.1 ± 0.1	21.0 ± 3.7						
1983-84	3.3 ± 1.6	4.9 ± 2.2	1.9 ± 0.7	2.3 ± 0.7	6.5 ± 3.0	0.2 ± 0.1	0.1 ± 0.1	19.1 ± 4.1						
1984-85	2.3 ± 0.9	4.3 ± 1.2	2.2 ± 0.9	1.8 ± 0.6	0.8 ± 0.3	0.2 ± 0.2	0.1 ± 0.1	11.6 ± 1.9						
1985-86	8.4 ± 4.2	3.4 ± 0.8	0.6 ± 0.2	3.3 ± 1.0	1.2 ± 0.5	0.1 ± 0.1	0.0	17.0 ± 4.4						

Table D.4. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower			
			Laguna Madre	Madre			Laguna Madre	Madre				
<b>Red drum</b>												
1974-76	120.0 ± 68.3	37.9 ± 13.0	38.7 ± 7.7	23.1 ± 6.6	17.0 ± 7.6	20.5 ± 4.7	50.3 ± 17.8	307.5 ± 148.0				
1976-77	22.8	17.9	29.7	17.6	11.8	9.0	22.2	131.1				
1977-78	69.2	11.4	17.1	22.9	4.9	4.6	18.6	148.7				
1978-79	29.0	23.0	25.3	4.4	5.6	3.5	8.4	99.2				
1979-80	41.1 ± 19.6	20.2 ± 7.7	20.0 ± 6.3	9.7 ± 5.0	8.0 ± 3.1	13.1 ± 4.0	29.9 ± 12.4	142.0 ± 26.2				
1980-81	69.9 ± 25.1	29.9 ± 8.2	12.4 ± 2.9	8.5 ± 2.8	14.5 ± 4.1	25.7 ± 4.6	11.7 ± 2.8	172.7 ± 27.5				
1981-82	34.2 ± 9.7	20.5 ± 6.3	16.1 ± 4.6	13.9 ± 3.5	9.5 ± 1.6	17.5 ± 3.6	8.5 ± 1.9	120.4 ± 13.7				
1982-83	27.1 ± 6.0	14.7 ± 3.4	14.4 ± 1.6	25.4 ± 7.0	8.5 ± 2.2	14.3 ± 2.0	21.7 ± 2.9	126.2 ± 10.8				
1983-84	25.3 ± 5.4	46.6 ± 8.8	29.4 ± 5.3	33.9 ± 6.0	20.3 ± 4.6	13.3 ± 1.5	28.8 ± 3.7	197.6 ± 14.4				
1984-85	20.8 ± 5.2	8.9 ± 2.6	7.5 ± 3.0	16.9 ± 4.1	15.2 ± 4.0	3.8 ± 0.9	22.4 ± 3.9	95.6 ± 9.6				
1985-86	19.3 ± 8.6	16.8 ± 5.3	7.3 ± 2.2	37.1 ± 5.7	24.3 ± 5.4	18.5 ± 2.7	31.3 ± 4.3	154.8 ± 11.5				
<b>Sand seatrout</b>												
1974-76	722.5 ± 428.9	68.5 ± 45.4	7.7 ± 4.2	15.9 ± 10.0	90.1 ± 26.7	52.9 ± 44.2	19.5 ± 11.1	977.1 ± 296.5				
1976-77	589.5	31.6	0.2	58.2	111.7	22.6	23.5	837.3				
1977-78	337.4	33.0	3.0	14.2	49.5	5.7	53.7	496.4				
1978-79	677.4	25.5	<1	10.3	35.2	4.3	6.5	759.3				
1979-80	307.1 ± 170.4	8.7 ± 4.1	3.9 ± 2.1	0.5 ± 0.2	85.5 ± 53.2	22.7 ± 15.5	12.2 ± 9.2	440.6 ± 179.4				
1980-81	339.1 ± 99.2	26.4 ± 13.5	0.9 ± 0.5	9.1 ± 3.4	447.8 ± 377.0	6.7 ± 2.5	8.9 ± 2.7	838.8 ± 390.1				
1981-82	153.1 ± 40.2	43.0 ± 18.3	2.0 ± 1.2	11.5 ± 5.4	61.9 ± 14.8	13.8 ± 7.0	20.0 ± 5.2	305.4 ± 47.7				
1982-83	279.2 ± 53.9	21.5 ± 6.4	6.7 ± 1.9	21.6 ± 5.9	118.5 ± 24.9	8.5 ± 2.9	15.4 ± 3.6	471.2 ± 60.2				
1983-84	164.4 ± 67.7	34.8 ± 12.4	3.6 ± 0.9	29.0 ± 9.4	96.1 ± 24.4	12.0 ± 3.4	9.6 ± 2.7	349.4 ± 73.8				
1984-85	303.3 ± 81.5	13.8 ± 7.8	2.6 ± 1.1	23.7 ± 8.9	24.0 ± 7.6	10.6 ± 4.0	24.7 ± 9.8	402.6 ± 83.4				
1985-86	138.4 ± 36.7	22.9 ± 6.9	3.5 ± 0.7	44.9 ± 17.0	47.4 ± 18.2	8.1 ± 2.4	14.7 ± 3.1	280.0 ± 45.0				
<b>Sheepshead</b>												
1974-76	27.8 ± 10.7	15.3 ± 8.9	4.2 ± 1.2	48.7 ± 34.3	5.4 ± 2.3	11.5 ± 5.2	2.7 ± 1.0	115.6 ± 25.1				
1976-77	23.5	22.7	2.4	12.5	6.7	4.0	10.7	82.5				
1977-78	184.5	24.8	7.6	12.8	4.0	5.0	12.7	251.5				
1978-79	39.9	31.0	2.2	5.5	8.0	3.4	15.0	104.5				
1979-80	87.1 ± 51.6	9.9 ± 4.5	4.0 ± 2.0	16.9 ± 14.6	7.4 ± 2.6	4.4 ± 2.4	45.8 ± 17.4	175.5 ± 56.7				
1980-81	39.5 ± 12.4	16.2 ± 8.2	1.6 ± 0.4	18.0 ± 10.0	67.2 ± 25.8	8.8 ± 3.5	11.6 ± 4.4	163.0 ± 31.9				
1981-82	38.1 ± 10.1	29.2 ± 10.3	5.1 ± 1.9	24.9 ± 10.0	19.9 ± 8.1	4.0 ± 1.0	18.1 ± 9.3	139.4 ± 21.5				
1982-83	43.9 ± 8.7	19.0 ± 9.2	6.9 ± 1.7	18.0 ± 10.7	65.4 ± 30.4	5.8 ± 1.3	16.2 ± 6.7	175.2 ± 35.3				
1983-84	29.3 ± 6.3	20.2 ± 9.4	3.5 ± 0.8	15.0 ± 6.5	3.9 ± 1.0	2.2 ± 0.4	12.0 ± 5.0	86.1 ± 14.1				
1984-85	27.4 ± 7.6	15.6 ± 5.5	1.4 ± 0.5	37.1 ± 24.9	3.0 ± 1.4	0.4 ± 0.2	15.1 ± 6.0	100.0 ± 27.3				
1985-86	13.5 ± 3.0	6.1 ± 2.0	4.0 ± 2.2	18.5 ± 5.4	3.2 ± 1.1	0.7 ± 0.3	2.2 ± 1.3	48.2 ± 7.1				

Table D.4. (Cont'd.)

Species Year	Bay system							Upper		Lower		Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre			
<b>Southern flounder</b>												
1974-76	85.0 ± 30.2	36.0 ± 16.4	10.9 ± 2.7	24.7 ± 11.2	3.8 ± 1.4	55.9 ± 22.8	3.9 ± 1.2	220.2 ± 27.6				
1976-77	31.6	19.9	9.6	8.2	7.5	7.5	5.8	85.0				
1977-78	42.0	19.3	9.4	12.3	4.2	4.6	10.4	102.2				
1978-79	38.4	25.5	4.4	7.9	16.7	3.0	9.9	105.8				
1979-80	440.7 ± 284.0	12.1 ± 5.0	8.0 ± 2.8	1.9 ± 0.9	8.1 ± 3.9	15.9 ± 4.4	14.0 ± 5.1	500.7 ± 284.2				
1980-81	54.6 ± 15.0	14.6 ± 7.1	7.5 ± 3.0	10.5 ± 4.7	71.2 ± 37.0	13.6 ± 3.9	8.1 ± 2.5	180.2 ± 41.2				
1981-82	35.0 ± 8.1	14.6 ± 8.4	3.5 ± 0.9	9.9 ± 2.8	21.8 ± 10.0	10.7 ± 2.5	9.9 ± 1.9	145.4 ± 15.9				
1982-83	98.6 ± 24.3	9.1 ± 2.3	5.7 ± 1.5	15.7 ± 6.8	7.2 ± 1.3	17.7 ± 3.3	26.9 ± 3.7	180.9 ± 25.9				
1983-84	70.4 ± 18.1	23.6 ± 4.3	3.7 ± 0.8	19.6 ± 10.1	20.0 ± 7.5	8.3 ± 1.2	10.4 ± 2.0	155.9 ± 22.6				
1984-85	75.1 ± 18.2	14.4 ± 2.8	2.7 ± 0.8	11.4 ± 3.1	21.3 ± 5.0	4.0 ± 1.1	9.2 ± 2.7	138.2 ± 19.5				
1985-86	68.1 ± 14.6	16.0 ± 3.9	4.2 ± 1.3	20.8 ± 4.2	18.3 ± 4.4	18.4 ± 2.8	48.6 ± 16.9	194.4 ± 23.7				
<b>Spotted seatrout</b>												
1974-76	638.6 ± 216.6	252.1 ± 105.4	271.9 ± 70.2	750.0 ± 340.1	78.4 ± 24.8	335.4 ± 79.4	275.1 ± 64.7	2601.5 ± 288.8				
1976-77	166.9	36.3	98.8	306.8	143.1	371.1	479.5	1601.8				
1977-78	326.2	132.7	61.0	205.6	139.6	92.3	243.8	1201.2				
1978-79	369.6	103.8	25.3	163.3	104.8	54.9	182.0	1003.7				
1979-80	120.0 ± 34.2	44.0 ± 16.2	121.0 ± 53.9	89.3 ± 30.0	49.9 ± 14.4	155.3 ± 38.4	191.9 ± 53.7	771.4 ± 99.0				
1980-81	829.2 ± 354.9	78.5 ± 18.4	59.1 ± 14.7	83.3 ± 17.7	110.7 ± 22.3	290.3 ± 50.4	140.0 ± 27.6	1591.2 ± 361.4				
1981-82	344.7 ± 76.8	153.0 ± 29.1	63.2 ± 8.9	159.2 ± 29.7	145.5 ± 25.8	239.2 ± 43.6	155.5 ± 16.5	1260.3 ± 102.7				
1982-83	243.2 ± 60.1	83.7 ± 13.4	63.9 ± 9.9	112.4 ± 18.8	98.8 ± 16.5	217.5 ± 22.6	252.7 ± 21.4	1072.3 ± 74.0				
1983-84	261.8 ± 50.5	161.6 ± 39.0	81.7 ± 17.8	127.6 ± 26.7	141.6 ± 31.4	190.3 ± 26.9	168.2 ± 18.0	1132.9 ± 84.4				
1984-85	95.9 ± 16.0	35.5 ± 13.5	4.7 ± 0.9	37.0 ± 20.2	36.8 ± 12.3	9.6 ± 3.4	97.1 ± 15.9	316.6 ± 35.6				
1985-86	116.9 ± 22.8	52.3 ± 10.0	25.5 ± 5.6	81.4 ± 17.6	83.5 ± 19.3	87.5 ± 13.7	98.0 ± 10.5	545.2 ± 40.3				
<b>Other species</b>												
1974-76	99.5 ± 51.5	8.3 ± 5.6	6.6 ± 2.1	6.7 ± 2.1	14.2 ± 5.4	10.9 ± 6.6	24.2 ± 18.9	170.4 ± 36.3				
1976-77	32.8	6.1	5.5	4.4	9.4	3.2	25.1	86.5				
1977-78	71.4	15.2	4.6	3.5	4.6	4.4	6.1	109.8				
1978-79	75.1	11.8	2.1	2.9	12.4	0.3	2.6	106.9				
1979-80	70.9 ± 25.9	6.8 ± 2.8	3.0 ± 1.6	0.9 ± 0.6	60.9 ± 45.9	50.7 ± 46.5	7.6 ± 4.3	200.8 ± 70.5				
1980-81	98.2 ± 21.3	11.4 ± 5.9	2.7 ± 1.0	2.4 ± 1.4	65.8 ± 38.0	14.7 ± 9.5	4.9 ± 2.4	200.1 ± 45.1				
1981-82	86.0 ± 27.3	9.7 ± 2.8	2.6 ± 1.1	7.6 ± 2.5	18.5 ± 3.3	5.4 ± 1.4	3.8 ± 0.8	133.7 ± 27.8				
1982-83	89.5 ± 15.8	8.3 ± 1.9	5.1 ± 1.2	10.6 ± 2.6	44.9 ± 11.9	11.1 ± 6.0	8.9 ± 1.9	178.4 ± 21.0				
1983-84	68.2	18.2	9.7	41.0	25.0	7.2	8.1	176.5				
1984-85	46.2	13.2	3.3	8.6	8.3	2.1	21.0	102.7				
1985-86	75.7	18.0	8.3	10.8	11.3	11.0	5.3	141.8				

Table D.4. (Cont'd.)

Species Year	Bay system																			
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide <sup>a</sup>												
All species combined <sup>a</sup>																				
1974-76	2470.6 ± 763.4	475.7 ± 181.0	353.2 ± 77.6	903.8 ± 346.2	238.7 ± 55.1	652.0 ± 154.1	412.6 ± 70.5	5506.6 ± 590.7												
1976-77	1487.6	220.4	190.3	425.1	324.3	462.6	594.2	3698.9												
1977-78	2025.0	319.1	118.1	282.8	230.0	159.7	369.3	3504.0												
1978-79	1837.1	293.8	71.7	202.8	209.2	143.3	252.0	3009.9												
1979-80	1357.8 ± 507.6	124.7 ± 30.1	165.0 ± 53.3	130.6 ± 38.1	239.5 ± 80.4	376.3 ± 107.4	307.9 ± 86.6	2701.8 ± 537.0												
1980-81	1904.4 ± 499.7	271.7 ± 67.0	88.7 ± 16.4	135.7 ± 24.0	936.5 ± 585.5	397.4 ± 60.7	199.0 ± 34.4	3933.5 ± 776.3												
1981-82	947.9 ± 155.9	308.6 ± 49.7	103.2 ± 14.1	247.4 ± 35.7	344.1 ± 47.8	329.4 ± 47.6	224.2 ± 24.0	2504.8 ± 182.7												
1982-83	1071.9 ± 129.3	192.5 ± 25.5	111.2 ± 11.6	220.7 ± 31.8	381.9 ± 55.1	309.6 ± 34.1	357.8 ± 27.3	2645.7 ± 153.2												
1983-84	808.7 ± 114.0	343.3 ± 50.8	138.4 ± 24.8	316.2 ± 51.7	359.7 ± 59.5	263.0 ± 30.2	248.0 ± 24.3	2477.3 ± 154.6												
1984-85	809.2 ± 119.9	126.2 ± 21.1	26.3 ± 3.9	146.8 ± 40.9	121.3 ± 20.4	33.9 ± 6.7	198.7 ± 27.4	1462.3 ± 133.1												
1985-86	685.2 ± 88.5	157.1 ± 20.3	54.8 ± 10.9	232.3 ± 30.4	213.2 ± 34.9	173.5 ± 20.3	211.4 ± 24.9	1727.4 ± 107.4												

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.5. Estimated landings of fishes (No. x 1000) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekends by species and bay system (1974-1985).

Species Year	Bay system							Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-75	199.9 ± 87.0	13.9 ± 8.5	2.6 ± 1.1	2.9 ± 2.0	3.7 ± 2.3	27.7 ± 11.3	8.0 ± 5.3	258.7 ± 62.0
1976	265.2 ± 97.2	10.5 ± 7.2	0.3 ± 0.3	3.2 ± 2.5	6.9 ± 2.4	16.1 ± 4.7	5.1 ± 1.3	307.3 ± 97.7
1977	434.3 ± 159.1	11.4 ± 5.9	0.5 ± 0.3	2.1 ± 0.8	7.5 ± 3.8	16.1 ± 9.5	5.2 ± 0.9	447.1 ± 159.5
1978	238.3 ± 63.9	12.5 ± 6.4	1.4 ± 1.0	0.6 ± 0.3	8.4 ± 2.3	33.9 ± 20.3	4.3 ± 1.7	299.4 ± 67.4
1979	231.9 ± 88.9	4.2 ± 2.2	1.3 ± 0.9	1.3 ± 0.8	3.9 ± 1.6	6.4 ± 3.3	2.0 ± 0.6	251.0 ± 89.1
1980	108.5 ± 33.6	13.4 ± 6.1	0.4 ± 0.2	0.7 ± 0.4	13.0 ± 7.0	15.1 ± 5.1	1.4 ± 0.7	152.6 ± 35.2
1981	95.6 ± 42.0	4.0 ± 1.9	0.3 ± 0.3	0.1 ± 0.1	26.3 ± 21.4	18.6 ± 8.0	1.8 ± 0.6	146.7 ± 47.9
1982	81.6 ± 21.0	3.5 ± 1.7	0.9 ± 0.3	3.1 ± 3.1	4.3 ± 1.1	21.3 ± 13.4	3.5 ± 0.2	118.5 ± 25.2
1983	74.1 ± 24.1	6.3 ± 3.1	0.8 ± 0.5	5.0 ± 5.0	17.5 ± 11.1	21.1 ± 5.1	2.4 ± 0.6	133.6 ± 27.6
1984	117.0 ± 34.0	2.2 ± 0.9	0.3 ± 0.2	1.8 ± 1.0	0.8 ± 0.4	1.3 ± 0.5	1.4 ± 0.7	124.7 ± 34.1
1985	99.8 ± 28.9	4.4 ± 2.2	0.1 ± 0.1	1.3 ± 0.7	2.1 ± 1.0	9.3 ± 3.1	2.4 ± 0.7	119.4 ± 29.2
<b>Black drum</b>								
1974-75	12.1 ± 7.0	5.4 ± 3.8	1.3 ± 0.5	0.4 ± 0.3	4.6 ± 3.5	1.0 ± 0.4	3.4 ± 3.4	28.2 ± 5.9
1976	27.7 ± 9.7	3.0 ± 1.4	14.3 ± 10.3	2.3 ± 0.9	1.7 ± 0.6	6.2 ± 4.2	1.2 ± 0.4	56.4 ± 14.9
1977	41.8 ± 10.9	9.5 ± 4.0	1.0 ± 0.4	1.2 ± 0.5	1.2 ± 0.5	1.1 ± 0.6	1.4 ± 0.5	57.3 ± 11.7
1978	20.8 ± 6.7	8.4 ± 3.4	1.4 ± 1.3	0.4 ± 0.3	0.8 ± 0.3	0.8 ± 0.3	1.0 ± 0.4	33.5 ± 7.7
1979	32.9 ± 9.9	2.9 ± 1.4	0.6 ± 0.5	5.8 ± 5.8	1.0 ± 0.5	0.5 ± 0.5	0.1 ± 0.1	47.8 ± 11.6
1980	14.3 ± 5.2	23.2 ± 12.9	0.7 ± 0.4	0.1 ± 0.1	3.1 ± 1.8	2.9 ± 1.1	3.7 ± 2.3	48.0 ± 14.2
1981	4.3 ± 1.2	11.3 ± 3.6	0.6 ± 0.3	1.1 ± 0.3	1.4 ± 0.6	0.7 ± 0.2	0.9 ± 0.7	20.3 ± 3.9
1982	33.1 ± 9.8	6.9 ± 2.4	0.4 ± 0.1	0.8 ± 0.4	4.9 ± 1.9	5.0 ± 1.9	0.7 ± 0.2	51.7 ± 10.4
1983	5.3 ± 2.0	8.6 ± 2.7	2.0 ± 1.0	2.3 ± 2.3	2.9 ± 1.1	1.1 ± 0.3	0.7 ± 0.2	27.1 ± 4.4
1984	11.5 ± 3.2	1.6 ± 1.0	0.2 ± 0.1	0.1 ± 0.1	1.2 ± 0.5	0.1 ± 0.1	0.3 ± 0.1	14.9 ± 3.4
1985	3.6 ± 1.4	0.7 ± 0.2	0.1 ± 0.1	0.1 ± 0.1	0.8 ± 0.1	3.4 ± 1.6	0.4 ± 0.1	9.2 ± 2.2
<b>Gafftopsail catfish</b>								
1974-75	14.7 ± 14.0	4.2 ± 3.1	1.9 ± 1.1	0.9 ± 0.6	0.0	0.0	0.0	21.7 ± 10.0
1976	6.6 ± 5.6	11.9 ± 10.7	1.0 ± 1.5	1.6 ± 1.5	1.2 ± 0.6	0.0	0.1 ± 0.1	22.2 ± 12.2
1977	2.3 ± 1.3	13.6 ± 8.8	2.6 ± 1.2	0.2 ± 0.1	0.6 ± 0.4	0.0	0.0	19.3 ± 9.0
1978	3.5 ± 1.6	13.6 ± 6.9	1.5 ± 0.5	1.0 ± 0.5	2.2 ± 1.1	<1 ± 0.1	0.2 ± 0.2	22.1 ± 7.2
1979	3.1 ± 1.9	1.4 ± 0.7	0.3 ± 0.1	0.1 ± 0.1	0.9 ± 0.6	0.1 ± 0.1	0.0	5.9 ± 2.2
1980	4.6 ± 4.0	0.4 ± 0.3	0.1 ± 0.1	0.4 ± 0.2	0.7 ± 0.3	<1 ± 0.1	0.1 ± 0.1	6.2 ± 4.0
1981	2.2 ± 1.9	2.6 ± 1.8	0.5 ± 0.4	0.6 ± 0.2	0.9 ± 0.4	0.0	<1 ± 0.1	6.8 ± 2.6
1982	0.9 ± 0.4	2.2 ± 1.0	0.7 ± 0.3	0.8 ± 0.5	1.0 ± 0.3	<1 ± 0.1	0.1 ± 0.0	5.8 ± 1.3
1983	0.9 ± 0.7	3.8 ± 2.1	0.7 ± 0.3	1.0 ± 0.4	2.6 ± 1.3	0.1 ± 0.1	0.0	9.1 ± 2.6
1984	0.8 ± 0.3	1.5 ± 0.5	1.0 ± 0.6	0.8 ± 0.5	0.2 ± 0.2	<1 ± 0.1	0.0	4.3 ± 1.0
1985	3.7 ± 3.5	0.8 ± 0.3	0.4 ± 0.2	1.5 ± 0.8	0.3 ± 0.2	0.0	0.0	6.7 ± 3.6

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>	
	Upper					Lower						
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre	Coastwide <sup>a</sup>		
<b>Red drum</b>												
1974-75	21.6 ±	14.2 ±	20.2 ±	10.4 ±	7.2 ±	5.8	9.6 ±	13.0 ±	6.8	96.2 ±	11.1	
1976	9.5 ±	6.3 ±	17.7 ±	9.5 ±	4.2 ±	1.5	2.5 ±	6.4 ±	2.3	56.1 ±	8.6	
1977	29.3 ±	4.5 ±	4.0 ±	9.3 ±	1.9 ±	0.8	1.4 ±	5.6 ±	1.8	56.1 ±	5.8	
1978	12.2 ±	10.5 ±	2.2 ±	1.1 ±	2.2 ±	0.8	1.4 ±	2.9 ±	1.1	32.6 ±	7.7	
1979	8.9 ±	12.4 ±	5.4 ±	2.7 ±	2.0 ±	0.7	0.6 ±	1.4 ±	0.3	33.4 ±	7.7	
1980	6.1 ±	18.7 ±	3.5 ±	2.7 ±	3.4 ±	1.2	14.5 ±	4.6 ±	1.1	54.7 ±	9.1	
1981	11.6 ±	7.1 ±	2.8 ±	3.9 ±	2.8 ±	0.8	5.1 ±	1.7 ±	0.3	32.6 ±	7.7	
1982	15.2 ±	5.9 ±	6.8 ±	5.1 ±	5.4 ±	2.1	5.9 ±	6.8 ±	0.9	51.4 ±	7.0	
1983	6.8 ±	6.2 ±	12.0 ±	19.3 ±	8.8 ±	3.0	7.5 ±	11.1 ±	1.6	85.4 ±	8.6	
1984	6.2 ±	19.9 ±	0.9 ±	7.3 ±	4.1 ±	1.4	0.7 ±	8.9 ±	2.2	29.1 ±	4.2	
1985	9.7 ±	8.4 ±	1.9 ±	14.4 ±	8.6 ±	4.1	12.2 ±	12.5 ±	1.9	67.7 ±	8.8	
<b>Sand seatrout</b>												
1974-75	393.7 ±	29.0 ±	1.0 ±	5.9 ±	41.5 ±	17.8	3.4 ±	17.1 ±	11.0	491.6 ±	262.5	
1976	249.1 ±	12.5 ±	0.1 ±	24.7 ±	19.8 ±	6.3	9.6 ±	6.3 ±	2.9	322.2 ±	149.8	
1977	129.7 ±	11.6 ±	0.9 ±	5.5 ±	19.4 ±	5.6	1.9 ±	21.3 ±	6.5	190.2 ±	39.6	
1978	229.8 ±	10.8 ±	<1 ±	1.3 ±	13.9 ±	4.6	0.9 ±	2.3 ±	0.9	259.0 ±	131.5	
1979	119.2 ±	8.6 ±	2.0 ±	0.4 ±	13.4 ±	5.9	1.4 ±	0.9 ±	0.3	145.9 ±	33.7	
1980	74.1 ±	2.5 ±	0.3 ±	8.4 ±	22.4 ±	12.5	2.4 ±	4.4 ±	2.1	114.6 ±	31.3	
1981	30.5 ±	19.2 ±	1.6 ±	1.2 ±	25.6 ±	9.0	4.7 ±	10.6 ±	4.6	93.5 ±	22.3	
1982	158.1 ±	9.8 ±	3.6 ±	5.8 ±	37.1 ±	15.5	3.8 ±	9.6 ±	3.1	227.9 ±	42.8	
1983	51.9 ±	23.1 ±	2.3 ±	7.8 ±	45.8 ±	18.1	8.7 ±	6.3 ±	2.6	145.9 ±	28.5	
1984	156.6 ±	11.4 ±	0.9 ±	15.8 ±	12.5 ±	5.7	5.2 ±	5.5 ±	1.9	207.9 ±	51.0	
1985	93.0 ±	12.3 ±	1.6 ±	2.1 ±	3.3 ±	1.4	3.0 ±	6.2 ±	1.9	121.4 ±	35.4	
<b>Sheepshead</b>												
1974-75	0.2 ±	8.2 ±	1.2 ±	1.6 ±	2.0 ±	1.1	1.1 ±	0.6 ±	0.4	14.9 ±	2.4	
1976	8.8 ±	8.2 ±	1.0 ±	4.2 ±	1.9 ±	1.6	1.2 ±	2.8 ±	1.2	28.1 ±	8.1	
1977	73.2 ±	8.4 ±	1.6 ±	2.4 ±	1.4 ±	0.8	0.8 ±	1.1 ±	0.6	88.8 ±	45.2	
1978	13.6 ±	9.7 ±	0.3 ±	0.7 ±	2.3 ±	1.3	0.1 ±	1.1 ±	0.9	27.9 ±	6.0	
1979	14.1 ±	3.0 ±	1.2 ±	2.4 ±	1.7 ±	0.9	0.3 ±	1.4 ±	0.4	24.2 ±	7.1	
1980	7.9 ±	3.6 ±	0.5 ±	1.6 ±	0.5 ±	0.3	3.7 ±	2.4 ±	1.7	22.3 ±	5.9	
1981	8.8 ±	5.2 ±	1.5 ±	2.1 ±	1.3 ±	0.4	0.4 ±	0.4 ±	0.1	22.5 ±	5.2	
1982	18.3 ±	2.6 ±	0.5 ±	1.1 ±	2.2 ±	0.9	1.9 ±	1.1 ±	0.6	27.9 ±	5.8	
1983	11.4 ±	3.1 ±	1.7 ±	0.6 ±	1.1 ±	0.4	1.2 ±	1.0 ±	0.4	21.2 ±	4.3	
1984	13.5 ±	5.3 ±	0.6 ±	0.4 ±	0.1 ±	0.1	<1 ±	0.9 ±	0.4	20.9 ±	4.8	
1985	5.8 ±	0.8 ±	0.3 ±	0.6 ±	0.4 ±	0.3	0.1 ±	0.4 ±	0.2	8.3 ±	1.8	

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
<b>Southern flounder</b>											
1974-75	18.8 ± 18.4	14.4 ± 8.8	6.1 ± 2.0	16.5 ± 10.7	0.6 ± 0.3	22.6 ± 21.1	2.6 ± 1.1	81.6 ± 21.3			
1976	15.0 ± 4.9	3.0 ± 1.3	4.3 ± 1.8	3.5 ± 1.6	2.9 ± 1.6	1.2 ± 0.4	1.9 ± 0.5	31.8 ± 5.9			
1977	17.7 ± 5.6	6.9 ± 2.6	3.9 ± 1.2	5.6 ± 2.3	1.7 ± 0.8	1.6 ± 0.7	3.8 ± 1.5	41.1 ± 6.9			
1978	16.8 ± 3.5	8.9 ± 4.3	2.1 ± 0.7	2.0 ± 1.1	7.6 ± 5.3	0.5 ± 0.2	4.2 ± 1.2	42.1 ± 7.9			
1979	15.0 ± 3.9	9.1 ± 4.7	1.3 ± 0.3	1.4 ± 0.8	4.7 ± 3.7	2.3 ± 1.3	4.5 ± 1.3	38.4 ± 7.4			
1980	9.4 ± 4.4	5.2 ± 2.4	5.2 ± 2.8	3.5 ± 2.1	1.3 ± 0.8	5.7 ± 2.0	3.8 ± 1.2	34.1 ± 6.6			
1981	9.7 ± 3.6	1.9 ± 0.7	1.3 ± 0.4	2.9 ± 1.7	2.0 ± 0.5	3.8 ± 1.2	3.0 ± 0.5	24.5 ± 4.3			
1982	49.7 ± 19.9	2.6 ± 0.7	3.6 ± 1.4	7.7 ± 6.5	2.2 ± 0.7	10.1 ± 3.0	9.7 ± 1.9	85.6 ± 21.3			
1983	34.3 ± 14.6	14.8 ± 3.6	2.2 ± 0.7	13.5 ± 10.0	6.7 ± 4.2	4.2 ± 0.8	4.9 ± 1.7	80.5 ± 18.6			
1984	26.0 ± 6.0	3.3 ± 1.0	1.9 ± 0.8	3.5 ± 1.7	3.3 ± 1.3	1.2 ± 0.6	0.9 ± 0.3	40.0 ± 6.5			
1985	41.7 ± 13.0	6.3 ± 2.3	1.3 ± 0.4	6.7 ± 2.6	2.7 ± 1.1	6.6 ± 1.3	12.2 ± 3.0	77.6 ± 13.9			
<b>Spotted seatrout</b>											
1974-75	330.3 ± 192.2	152.1 ± 84.0	123.8 ± 58.0	146.2 ± 86.1	27.5 ± 15.3	36.9 ± 9.9	77.6 ± 29.1	894.4 ± 156.8			
1976	38.4 ± 19.7	11.3 ± 3.6	52.4 ± 15.5	83.6 ± 24.1	33.7 ± 14.0	189.5 ± 154.8	78.0 ± 16.0	486.8 ± 161.4			
1977	96.4 ± 30.9	62.7 ± 19.1	28.0 ± 8.8	55.9 ± 22.4	38.1 ± 13.3	31.5 ± 7.6	85.9 ± 19.1	398.5 ± 50.0			
1978	107.6 ± 33.0	40.7 ± 14.0	12.6 ± 2.5	41.1 ± 16.7	29.0 ± 9.6	18.5 ± 3.9	67.7 ± 21.5	317.1 ± 46.3			
1979	70.4 ± 17.6	17.7 ± 6.5	31.1 ± 10.1	59.0 ± 23.8	20.9 ± 5.8	39.8 ± 14.7	46.9 ± 7.4	285.7 ± 36.3			
1980	33.8 ± 11.2	30.1 ± 8.9	28.8 ± 13.4	28.1 ± 8.4	18.5 ± 6.0	119.1 ± 19.1	56.7 ± 11.7	315.1 ± 31.6			
1981	67.6 ± 21.3	62.7 ± 17.0	23.2 ± 4.6	39.0 ± 10.0	44.2 ± 6.9	80.6 ± 22.9	65.0 ± 11.0	382.4 ± 39.5			
1982	115.8 ± 51.8	23.7 ± 6.6	29.3 ± 7.6	27.8 ± 8.2	36.6 ± 10.7	95.1 ± 15.2	88.6 ± 10.9	417.0 ± 57.6			
1983	85.6 ± 26.6	53.5 ± 12.8	32.4 ± 11.5	69.3 ± 21.9	66.0 ± 24.6	109.8 ± 23.8	60.7 ± 8.3	477.3 ± 52.2			
1984	29.9 ± 8.3	5.8 ± 1.7	2.4 ± 0.6	2.0 ± 0.8	3.4 ± 1.7	1.0 ± 0.3	20.3 ± 5.8	64.8 ± 10.4			
1985	38.1 ± 10.7	14.1 ± 4.1	7.6 ± 1.7	18.7 ± 4.9	10.7 ± 3.4	25.2 ± 5.5	32.7 ± 3.7	147.1 ± 14.6			
<b>Other Species</b>											
1974-75	11.1 ± 5.2	0.5 ± 0.5	3.6 ± 1.7	2.4 ± 0.9	4.5 ± 1.4	1.4 ± 0.7	1.8 ± 0.8	25.3 ± 4.0			
1976	13.4 ± 3.9	2.6 ± 1.8	2.7 ± 0.9	2.9 ± 1.3	3.0 ± 1.4	2.2 ± 1.1	2.2 ± 0.9	28.8 ± 5.0			
1977	9.1 ± 3.0	9.4 ± 4.9	1.8 ± 0.5	1.5 ± 0.5	1.2 ± 0.4	3.0 ± 2.3	1.5 ± 0.5	27.5 ± 6.3			
1978	24.0 ± 6.5	7.8 ± 2.4	1.2 ± 0.5	0.9 ± 0.5	1.0 ± 0.5	0.2 ± 0.1	1.0 ± 0.4	36.2 ± 7.0			
1979	45.7 ± 14.3	4.0 ± 1.6	0.8 ± 0.3	1.0 ± 0.6	3.6 ± 1.6	0.7 ± 0.5	0.8 ± 0.3	56.5 ± 14.5			
1980	39.6 ± 10.6	4.3 ± 2.1	1.1 ± 0.6	1.0 ± 0.7	7.3 ± 3.7	11.0 ± 9.3	0.2 ± 0.1	64.5 ± 14.8			
1981	20.1 ± 6.9	4.0 ± 1.9	1.1 ± 0.5	1.1 ± 0.4	5.4 ± 0.7	3.3 ± 1.2	2.3 ± 0.7	37.3 ± 7.4			
1982	36.4 ± 10.3	5.0 ± 1.7	2.6 ± 1.0	3.2 ± 0.8	8.6 ± 1.4	8.2 ± 5.9	3.9 ± 1.0	67.8 ± 12.2			
1983	9.0	10.4	6.3	13.7	14.9	3.7	3.5	61.2			
1984	30.7	2.9	2.2	3.9	0.7	1.1	3.5	45.1			
1985	21.8	5.8	0.9	3.5	3.0	3.2	1.8	40.0			

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
All species combined <sup>a</sup>												
1974-75	1002.5 ± 574.8	241.8 ± 117.1	161.8 ± 64.7	187.2 ± 93.9	91.6 ± 35.0	103.8 ± 29.3	124.2 ± 50.1	1912.9 ± 415.9				
1976	633.7 ± 176.1	69.2 ± 23.4	93.8 ± 408.8	135.6 ± 39.8	75.1 ± 20.4	228.5 ± 156.9	103.9 ± 16.9	1339.8 ± 245.2				
1977	833.8 ± 212.6	138.0 ± 41.6	44.4 ± 10.2	83.6 ± 25.8	73.0 ± 14.8	57.4 ± 15.1	125.8 ± 24.6	1356.0 ± 220.8				
1978	666.6 ± 168.0	123.2 ± 34.2	22.9 ± 3.8	49.1 ± 17.1	67.4 ± 17.4	56.3 ± 19.7	84.6 ± 23.3	1070.0 ± 175.9				
1979	541.3 ± 122.5	63.3 ± 16.9	44.1 ± 12.6	77.9 ± 26.7	52.0 ± 13.1	52.0 ± 16.5	58.1 ± 8.4	888.8 ± 129.1				
1980	298.3 ± 66.2	103.1 ± 26.1	40.6 ± 14.3	48.4 ± 12.8	70.1 ± 23.9	174.4 ± 27.3	77.4 ± 15.0	812.1 ± 83.5				
1981	250.6 ± 62.1	118.0 ± 30.2	32.8 ± 6.2	52.2 ± 10.7	110.0 ± 25.9	117.2 ± 26.4	85.7 ± 13.6	766.6 ± 80.5				
1982	509.2 ± 88.7	62.4 ± 10.8	48.4 ± 8.1	55.9 ± 14.3	102.3 ± 20.4	151.4 ± 27.7	124.1 ± 14.4	1053.6 ± 98.2				
1983	279.2 ± 64.0	143.5 ± 25.8	60.1 ± 18.0	144.2 ± 38.1	166.3 ± 44.6	157.5 ± 26.4	90.5 ± 11.3	1041.4 ± 96.7				
1984	392.1 ± 84.5	35.1 ± 8.9	10.3 ± 1.8	35.5 ± 12.0	26.3 ± 6.8	10.8 ± 3.0	41.7 ± 8.9	551.6 ± 86.6				
1985	317.2 ± 69.6	53.6 ± 12.1	14.2 ± 2.2	48.9 ± 8.7	31.9 ± 8.3	63.1 ± 11.3	68.5 ± 7.4	597.3 ± 73.0				

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.



Table D.6. Estimated landings of fishes (No. x 1000) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekdays by species and bay system (1974-1985).

Species Year	Bay system							Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-75	351.1 ± 286.4	3.0 ± 3.0	3.1 ± 1.8	0.8 ± 0.8	1.9 ± 1.9	38.5 ± 15.9	2.1 ± 2.1	400.5 ± 227.5
1976	265.2	8.3	0.3	3.2	9.7	16.1	7.7	310.5
1977	434.3	11.4	0.5	2.1	7.5	16.1	5.2	477.1
1978	238.3	12.5	1.4	0.6	8.4	33.9	4.3	299.4
1979	3.9 ± 2.5	0.0	0.1 ± 0.1	0.0	2.2 ± 2.2	100.1 ± 57.5	0.0	106.3 ± 57.6
1980	262.8 ± 195.0	34.1 ± 23.4	1.1 ± 0.6	0.8 ± 0.4	135.5 ± 118.1	14.1 ± 6.3	2.7 ± 1.1	451.1 ± 229.3
1981	95.2 ± 23.4	2.3 ± 0.9	0.3 ± 0.1	1.3 ± 0.5	14.7 ± 5.5	6.0 ± 2.6	0.8 ± 0.2	120.6 ± 24.3
1982	94.9 ± 24.6	2.9 ± 1.0	0.3 ± 0.1	1.1 ± 0.4	11.4 ± 4.8	3.2 ± 1.1	2.2 ± 0.7	116.0 ± 23.1
1983	82.3 ± 26.7	5.0 ± 2.3	0.6 ± 0.2	14.1 ± 4.2	20.8 ± 7.3	5.5 ± 1.3	2.1 ± 0.5	130.3 ± 28.2
1984	84.2 ± 23.4	3.4 ± 1.4	<0.1 ± <0.1	2.7 ± 1.5	6.3 ± 2.6	0.7 ± 0.5	0.8 ± 0.3	98.2 ± 23.6
1985	111.0 ± 30.3	5.1 ± 2.1	0.1 ± 0.1	9.3 ± 4.2	8.7 ± 3.8	7.0 ± 1.9	3.7 ± 1.0	145.0 ± 31.0
<b>Black drum</b>								
1974-75	0.0	11.2 ± 11.2	0.5 ± 0.4	15.6 ± 14.7	5.6 ± 3.5	3.7 ± 2.7	13.6 ± 12.2	50.2 ± 12.3
1976	38.1	5.9	19.6	3.2	2.6	8.5	2.3	80.3
1977	57.4	13.1	1.4	1.6	1.6	1.5	1.9	78.7
1978	28.6	11.5	1.9	0.5	1.1	1.1	13.7	58.4
1979	0.6 ± 0.6	4.1 ± 4.1	0.1 ± 0.1	0.0	0.0	0.0	1.4 ± 1.0	6.2 ± 4.3
1980	24.2 ± 9.5	7.9 ± 3.4	0.4 ± 0.1	1.5 ± 0.8	3.3 ± 1.8	3.2 ± 2.2	1.6 ± 1.2	42.1 ± 10.6
1981	32.3 ± 9.9	8.5 ± 2.7	4.1 ± 3.6	6.1 ± 2.6	4.8 ± 2.6	0.2 ± 0.1	0.4 ± 0.1	56.4 ± 11.5
1982	28.9 ± 9.9	9.9 ± 3.2	0.3 ± 0.1	3.8 ± 2.2	2.5 ± 1.4	1.4 ± 0.4	2.0 ± 0.8	48.7 ± 10.8
1983	13.7 ± 3.2	8.4 ± 3.3	0.6 ± 0.2	1.9 ± 0.8	2.1 ± 0.7	0.6 ± 0.2	0.8 ± 0.4	28.2 ± 4.7
1984	9.2 ± 2.9	5.9 ± 2.3	0.1 ± 0.1	0.3 ± 0.2	0.8 ± 0.3	0.1 ± <0.1	0.8 ± 0.3	17.1 ± 3.7
1985	12.6 ± 6.1	4.5 ± 3.2	0.3 ± 0.2	2.0 ± 1.2	4.5 ± 3.0	1.6 ± 0.9	0.9 ± 0.5	26.4 ± 7.7
<b>Gafftopsail catfish</b>								
1974-75	26.6 ± 26.6	0.0	0.8 ± 0.6	6.3 ± 6.3	0.0	0.0	0.0	33.7 ± 21.7
1976	6.7	21.1	1.0	1.6	2.1	0.0	<0.1	32.6
1977	2.4	13.9	2.7	0.2	0.6	0.0	0.0	19.7
1978	3.6	13.9	1.5	1.0	2.2	<0.1	0.2	22.6
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.7 ± 0.7	0.0	0.2 ± 0.2	0.0	0.0	0.0	0.0	0.9 ± 0.8
1981	2.0 ± 1.0	2.3 ± 1.5	0.5 ± 0.2	0.4 ± 0.3	1.1 ± 0.7	0.1 ± 0.1	<0.1	6.4 ± 2.0
1982	4.1 ± 2.4	1.0 ± 0.6	0.6 ± 0.4	0.9 ± 0.3	1.6 ± 0.6	<0.1 ± <0.1	0.1 ± <0.1	8.2 ± 2.6
1983	1.3 ± 1.0	0.7 ± 0.4	0.6 ± 0.4	0.8 ± 0.5	3.8 ± 2.7	0.1 ± <0.1	0.1 ± <0.1	7.4 ± 2.9
1984	0.9 ± 0.6	1.9 ± 0.9	1.0 ± 0.6	0.7 ± 0.3	0.2 ± 0.1	0.2 ± 0.2	<0.1 ± <0.1	5.0 ± 1.3
1985	1.7 ± 1.4	1.6 ± 0.5	0.2 ± 0.2	1.6 ± 0.6	0.6 ± 0.4	0.0	0.0	5.7 ± 1.6

Table D.6. (Cont'd.)

Species Year	Bay system							Upper		Lower		Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Upper Madre	Lower Madre	Laguna Madre	Coastwide <sup>a</sup>		
<b>Red drum</b>												
1974-75	66.9 ± 11.5	7.5 ± 5.6	5.7 ± 10.6	3.1 ± 5.7	3.7 ± 6.3	2.0 ± 3.0	27.6 ± 9.7	16.1 ± 9.7	116.5 ± 52.4			
1976	35.5	2.7	2.4	5.6	2.3	1.7	6.8	6.8	57.0			
1977	14.8	6.3	1.3	0.7	2.7	1.7	3.5	3.5	31.0			
1978	28.3 ± 19.0	0.0	5.1 ± 3.3	0.0	0.0	1.9 ± 1.9	20.3 ± 11.9	11.9 ± 11.9	55.6 ± 22.8			
1979	57.1 ± 24.7	8.5 ± 3.8	4.2 ± 1.1	3.8 ± 1.1	7.7 ± 3.5	6.1 ± 1.2	5.2 ± 2.4	5.2 ± 2.4	92.6 ± 10.6			
1980	14.7 ± 4.7	8.3 ± 2.9	5.2 ± 2.3	4.0 ± 1.1	5.0 ± 1.3	7.4 ± 3.0	2.1 ± 0.6	2.1 ± 0.6	46.7 ± 6.9			
1981	9.8 ± 2.6	6.4 ± 1.4	5.0 ± 0.8	11.9 ± 4.3	2.4 ± 0.8	6.0 ± 1.1	6.7 ± 1.1	6.7 ± 1.1	48.3 ± 5.6			
1982	13.0 ± 4.1	16.3 ± 5.2	11.1 ± 2.1	10.9 ± 2.8	8.0 ± 2.5	5.2 ± 1.0	11.9 ± 2.5	11.9 ± 2.5	76.5 ± 8.4			
1983	5.2 ± 1.4	2.4 ± 0.7	0.8 ± 0.3	5.6 ± 2.4	4.8 ± 1.5	1.7 ± 0.6	6.3 ± 1.4	6.3 ± 1.4	26.9 ± 3.6			
1984	8.3 ± 2.0	8.4 ± 5.0	3.9 ± 2.0	15.8 ± 3.4	8.2 ± 2.0	3.7 ± 0.6	9.8 ± 2.6	9.8 ± 2.6	54.7 ± 5.7			
<b>Sand seatrout</b>												
1974-75	55.7 ± 338.0	37.3 ± 18.2	2.7 ± 0.1	0.8 ± 33.5	34.0 ± 40.8	45.9 ± 13.0	0.0	0.0	176.4 ± 456.7			
1976	176.0	15.7	1.2	7.5	26.3	2.6	13.1	13.1	258.1			
1977	311.8	14.7	<1	1.8	18.9	1.2	28.9	28.9	351.4			
1978	168.9 ± 166.9	0.0	1.9 ± 1.9	0.0	65.4 ± 52.7	19.9 ± 15.4	9.9 ± 9.2	9.9 ± 9.2	266.1 ± 175.9			
1979	260.1 ± 195.0	23.9 ± 13.4	0.6 ± 0.4	0.7 ± 0.3	411.2 ± 376.7	4.1 ± 2.3	3.5 ± 1.5	3.5 ± 1.5	704.0 ± 388.8			
1980	119.1 ± 38.6	21.0 ± 8.1	0.4 ± 0.2	4.8 ± 2.8	21.4 ± 9.0	8.4 ± 6.5	5.3 ± 1.3	5.3 ± 1.3	180.4 ± 41.1			
1981	120.3 ± 36.8	11.6 ± 4.6	1.7 ± 0.6	10.0 ± 3.3	37.8 ± 10.5	4.2 ± 2.3	3.3 ± 1.1	3.3 ± 1.1	189.1 ± 38.8			
1982	80.2 ± 56.8	10.6 ± 4.3	1.3 ± 0.5	19.8 ± 8.8	49.4 ± 16.3	3.3 ± 0.8	2.6 ± 0.8	2.6 ± 0.8	167.2 ± 59.9			
1983	132.7 ± 64.2	1.3 ± 0.5	1.1 ± 0.8	7.9 ± 3.3	11.3 ± 4.9	0.7 ± 0.5	6.2 ± 2.3	6.2 ± 2.3	161.2 ± 64.5			
1984	37.3 ± 9.9	12.3 ± 5.7	1.6 ± 0.5	17.7 ± 6.2	16.9 ± 7.0	1.0 ± 0.2	5.6 ± 1.4	5.6 ± 1.4	70.3 ± 14.2			
<b>Sheepshead</b>												
1974-75	9.2 ± 12.0	4.5 ± 12.1	0.7 ± 1.4	0.0 ± 5.7	0.7 ± 2.7	3.3 ± 1.6	0.0	0.0	18.4 ± 40.1			
1976	99.6	11.4	2.2	3.3	1.9	1.1	4.8	4.8	120.8			
1977	18.5	13.2	0.4	1.0	3.1	0.1	1.5	1.5	37.9			
1978	19.5 ± 19.5	4.1 ± 4.1	2.3 ± 1.9	0.0	0.0	0.0	15.5 ± 10.9	15.5 ± 10.9	41.5 ± 22.8			
1979	20.3 ± 8.8	1.8 ± 0.9	0.5 ± 0.2	2.0 ± 1.3	16.1 ± 8.0	1.0 ± 0.4	3.8 ± 3.4	3.8 ± 3.4	45.6 ± 12.5			
1980	25.6 ± 9.5	7.2 ± 2.9	1.2 ± 0.3	7.3 ± 3.1	3.9 ± 1.1	0.7 ± 0.3	0.8 ± 0.1	0.8 ± 0.1	46.2 ± 10.5			
1981	21.0 ± 5.6	10.4 ± 8.4	0.7 ± 0.2	1.9 ± 1.0	1.8 ± 0.8	1.2 ± 0.4	2.6 ± 1.4	2.6 ± 1.4	39.6 ± 10.3			
1982	14.2 ± 4.4	2.8 ± 1.1	1.2 ± 0.5	2.3 ± 0.7	2.2 ± 0.8	0.8 ± 0.2	1.6 ± 0.7	1.6 ± 0.7	25.0 ± 4.7			
1983	13.5 ± 6.6	6.3 ± 4.5	0.3 ± 0.1	0.4 ± 0.2	1.6 ± 1.0	<1 ± <1	0.2 ± 0.4	0.2 ± 0.4	23.4 ± 8.1			
1984	5.2 ± 1.9	0.8 ± 0.3	2.1 ± 2.0	1.1 ± 0.5	0.9 ± 0.5	<1 ± <1	0.2 ± 0.1	0.2 ± 0.1	11.4 ± 2.9			

Table D.6. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre			
<b>Southern flounder</b>											
1974-75	25.5 ± 16.8	1.5 ± 1.5	2.3 ± 1.6	1.1 ± 1.1	0.0	9.7 ± 5.6	0.0	0.0	40.1 ± 14.1		
1976	14.8	3.9	4.3	3.5	3.3	1.2	2.9	2.9	33.9		
1977	17.5	6.8	3.9	5.5	1.7	1.6	3.8	3.8	40.8		
1978	16.6	8.8	2.1	2.0	7.5	0.5	4.2	4.2	41.7		
1979	232.1 ± 209.8	0.0	5.6 ± 2.7	0.0	0.0	11.5 ± 4.2	6.2 ± 4.9	6.2 ± 4.9	255.4 ± 209.9		
1980	40.7 ± 13.7	8.4 ± 6.7	2.2 ± 1.1	3.0	59.8 ± 35.9	1.9 ± 0.7	2.9 ± 2.1	2.9 ± 2.1	119.7 ± 39.2		
1981	14.2 ± 4.0	11.2 ± 8.3	1.5 ± 0.7	2.1	18.4 ± 10.0	3.8 ± 1.7	4.1 ± 1.7	4.1 ± 1.7	58.3 ± 14.0		
1982	37.4 ± 10.2	4.9 ± 2.1	1.4 ± 0.3	1.9	3.2 ± 0.9	3.8 ± 1.1	11.9 ± 2.9	11.9 ± 2.9	68.5 ± 11.1		
1983	29.4 ± 10.2	6.1 ± 1.7	1.1 ± 0.4	4.9 ± 1.7	13.1 ± 6.3	3.3 ± 0.8	5.3 ± 1.2	5.3 ± 1.2	63.2 ± 12.3		
1984	19.7 ± 4.4	8.4 ± 2.4	0.4 ± 0.1	4.7 ± 1.9	13.0 ± 4.3	0.9 ± 0.4	0.7 ± 0.2	0.7 ± 0.2	47.9 ± 6.8		
1985	17.3 ± 4.8	5.7 ± 2.6	1.1 ± 0.4	8.3 ± 2.6	5.4 ± 1.3	3.3 ± 0.9	9.4 ± 2.3	9.4 ± 2.3	50.5 ± 6.7		
<b>Spotted seatrout</b>											
1974-75	178.9 ± 74.0	59.7 ± 59.7	44.3 ± 16.4	480.0 ± 324.6	16.7 ± 16.7	114.6 ± 53.7	91.3 ± 44.8	91.3 ± 44.8	985.5 ± 268.2		
1976	88.5	13.0	44.8	192.8	93.6	161.9	172.3	172.3	766.9		
1977	222.3	53.6	23.9	128.9	87.9	26.9	119.8	119.8	663.3		
1978	248.1	34.8	10.8	94.8	66.9	15.8	94.5	94.5	565.7		
1979	19.5 ± 19.5	12.3 ± 12.3	79.9 ± 52.7	16.9 ± 16.9	11.0 ± 10.6	25.3 ± 21.0	77.8 ± 46.7	77.8 ± 46.7	242.8 ± 79.6		
1980	706.4 ± 348.7	42.0 ± 15.7	20.4 ± 5.0	39.8 ± 13.7	65.7 ± 19.1	49.5 ± 10.9	53.4 ± 21.4	53.4 ± 21.4	977.2 ± 350.7		
1981	246.4 ± 71.5	69.8 ± 19.9	28.4 ± 4.7	75.5 ± 23.5	55.0 ± 14.3	64.1 ± 10.1	45.8 ± 7.0	45.8 ± 7.0	585.0 ± 80.2		
1982	119.8 ± 30.0	51.2 ± 10.6	27.8 ± 6.1	60.7 ± 14.4	39.4 ± 10.4	70.1 ± 10.7	106.0 ± 12.7	106.0 ± 12.7	475.0 ± 40.5		
1983	105.2 ± 28.6	67.0 ± 19.0	42.6 ± 13.0	48.9 ± 13.6	68.6 ± 18.8	75.9 ± 12.2	83.1 ± 14.1	83.1 ± 14.1	491.4 ± 47.3		
1984	49.1 ± 8.7	6.1 ± 1.7	0.8 ± 0.2	6.3 ± 2.2	8.2 ± 4.0	2.6 ± 2.1	28.7 ± 4.9	28.7 ± 4.9	101.8 ± 11.3		
1985	69.2 ± 19.0	19.4 ± 5.0	8.5 ± 4.0	14.3 ± 3.0	26.3 ± 6.2	15.9 ± 4.9	29.2 ± 4.6	29.2 ± 4.6	182.8 ± 22.3		
<b>Other species</b>											
1974-75	6.3 ± 5.3	5.2 ± 5.2	1.8 ± 1.0	3.2 ± 1.7	6.2 ± 4.5	8.1 ± 6.4	19.8 ± 18.8	19.8 ± 18.8	50.6 ± 7.9		
1976	19.2	1.4	1.3	1.4	4.6	1.0	5.3	5.3	34.2		
1977	13.1	4.5	0.9	0.7	1.7	1.4	2.2	2.2	24.5		
1978	34.4	3.7	0.6	0.4	1.4	0.1	1.4	1.4	42.0		
1979	21.2 ± 21.2	0.0	1.7 ± 1.6	0.0	10.9 ± 10.9	49.3 ± 46.5	4.8 ± 4.1	4.8 ± 4.1	87.9 ± 52.5		
1980	32.4 ± 12.8	6.7 ± 5.5	0.7 ± 0.3	0.2 ± 0.1	52.7 ± 37.7	2.1 ± 1.0	0.3 ± 0.2	0.3 ± 0.2	95.1 ± 40.3		
1981	26.7 ± 10.8	4.6 ± 1.8	1.4 ± 1.0	2.7 ± 1.2	7.7 ± 2.5	1.3 ± 0.5	0.5 ± 0.1	0.5 ± 0.1	44.7 ± 11.3		
1982	35.9 ± 9.5	3.4 ± 0.8	1.1 ± 0.3	5.5 ± 2.3	10.0 ± 3.1	1.5 ± 0.4	1.8 ± 0.5	1.8 ± 0.5	59.1 ± 10.3		
1983	20.8	3.3	2.7	18.4	9.5	1.7	2.4	2.4	58.7		
1984	12.1	3.0	0.9	3.8	4.4	0.1	2.2	2.2	26.5		
1985	3.8	5.8	0.9	5.4	4.6	1.6	1.9	1.9	36.5		

Table D.6. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide <sup>a</sup>		
All species combined <sup>a</sup>										
1974-75	720.1 ± 395.0	129.9 ± 129.9	61.8 ± 19.8	510.9 ± 327.0	68.6 ± 37.8	225.8 ± 91.5	154.3 ± 32.0	1871.4 ± 414.4		
1976	794.0	89.5	83.0	250.6	165.7	206.3	218.1	1807.2		
1977	1038.1	133.1	39.1	155.4	131.5	52.9	170.1	1740.2		
1978	914.7	119.4	20.0	102.8	112.2	54.4	126.4	1449.9		
1979	494.1 ± 431.5	20.6 ± 20.6	96.9 ± 51.1	16.9 ± 16.9	89.4 ± 64.8	208.0 ± 102.0	135.9 ± 77.0	1061.8 ± 458.3		
1980	1,404.8 ± 487.8	133.3 ± 58.9	30.4 ± 6.5	52.4 ± 15.2	752.1 ± 584.1	82.1 ± 17.5	73.2 ± 27.1	2528.3 ± 764.1		
1981	576.3 ± 130.9	135.2 ± 34.8	42.9 ± 7.8	107.1 ± 27.7	131.9 ± 30.6	92.0 ± 13.9	59.4 ± 8.8	1144.7 ± 142.8		
1982	472.2 ± 85.5	101.9 ± 20.8	39.0 ± 7.2	101.6 ± 20.7	110.0 ± 21.3	91.5 ± 12.8	136.6 ± 15.8	1052.7 ± 95.4		
1983	360.2 ± 77.0	120.1 ± 24.1	61.9 ± 14.6	121.9 ± 23.2	177.4 ± 38.3	96.4 ± 13.6	110.0 ± 17.1	1048.0 ± 95.9		
1984	326.7 ± 77.6	38.8 ± 9.2	5.5 ± 1.5	32.6 ± 8.0	50.5 ± 12.4	7.0 ± 2.9	47.0 ± 6.7	507.9 ± 79.9		
1985	289.1 ± 47.4	59.2 ± 11.7	18.9 ± 4.9	75.5 ± 11.4	76.4 ± 16.0	35.6 ± 6.6	60.7 ± 8.2	615.3 ± 53.9		

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.7. Estimated landings of fishes (No. x 1000) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay system (1974-1986).

Species Year	Bay system							Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-76	113.5 ± 68.9	2.9 ± 2.9	0.2 ± 0.1	0.1 ± 0.1	5.4 ± 4.4	2.0 ± 1.0	0.9 ± 0.7	125.0 ± 44.3
1976-77	2.8 ± 2.7	2.8 ± 2.8	0.3 ± 0.3	0.0	0.9 ± 0.6	0.8 ± 0.6	1.0 ± 0.5	8.7 ± 4.0
1977-78	3.3 ± 1.8	0.7 ± 0.5	<.1 ± <.1	0.0	0.6 ± 0.5	1.3 ± 0.7	0.4 ± 0.2	6.3 ± 2.1
1978-79	2.6 ± 1.5	0.0	0.0	0.0	0.0	<.1 ± <.1	0.2 ± 0.1	2.8 ± 1.5
1979-80	12.5 ± 12.5	2.6 ± 1.4	0.5 ± 0.4	<.1 ± <.1	5.0 ± 3.6	0.4 ± 0.2	0.3 ± 0.2	21.1 ± 13.1
1980-81	0.3 ± 0.3	0.3 ± 0.3	0.0	0.0	0.4 ± 0.3	1.1 ± 0.5	0.5 ± 0.3	2.7 ± 0.8
1981-82	0.5 ± 0.4	0.3 ± 0.3	0.0	0.0	0.3 ± 0.2	3.8 ± 2.3	0.4 ± 0.2	5.3 ± 2.4
1982-83	1.3 ± 1.0	0.9 ± 0.8	<.1 ± <.1	0.0	0.1 ± 0.1	0.1 ± 0.1	1.1 ± 0.6	3.6 ± 1.4
1983-84	1.3 ± 1.1	0.0	0.0	11.9 ± 11.9	0.0	0.0	0.0	13.2 ± 11.9
1984-85	5.6 ± 4.4	1.3 ± 1.0	0.0	0.0	1.0 ± 0.8	0.6 ± 0.5	1.7 ± 1.3	10.3 ± 4.8
1985-86	3.6 ± 3.5	2.7 ± 2.7	0.0	0.3 ± 0.2	0.1 ± 0.1	0.2 ± 0.2	0.0	6.9 ± 4.4
<b>Black drum</b>								
1974-76	19.9 ± 7.8	3.8 ± 3.0	0.4 ± 0.1	1.0 ± 0.4	0.9 ± 0.6	7.8 ± 5.6	1.8 ± 0.7	35.6 ± 6.3
1976-77	0.5 ± 0.3	2.3 ± 1.1	1.3 ± 0.9	0.7 ± 0.3	0.6 ± 0.3	0.7 ± 0.4	2.5 ± 0.9	8.5 ± 1.8
1977-78	5.3 ± 2.0	1.5 ± 1.0	2.4 ± 1.2	1.0 ± 0.6	0.2 ± 0.9	2.4 ± 0.9	4.0 ± 1.3	17.8 ± 3.2
1978-79	19.1 ± 13.4	0.2 ± 0.2	1.0 ± 0.3	0.4 ± 0.3	0.4 ± 0.3	1.8 ± 0.6	1.4 ± 0.9	24.2 ± 13.7
1979-80	0.7 ± 0.5	5.2 ± 4.4	0.8 ± 0.5	0.0	2.6 ± 1.3	0.9 ± 0.7	2.8 ± 1.5	13.1 ± 4.9
1980-81	31.5 ± 24.9	5.9 ± 5.9	1.3 ± 0.7	0.1 ± 0.1	1.2 ± 1.0	0.5 ± 0.3	0.6 ± 0.3	41.2 ± 25.6
1981-82	1.2 ± 0.8	2.9 ± 1.5	1.4 ± 1.0	1.8 ± 1.0	0.5 ± 0.3	5.5 ± 3.4	1.5 ± 0.7	14.9 ± 4.1
1982-83	2.9 ± 2.9	0.6 ± 0.6	0.6 ± 0.3	0.3 ± 0.2	2.5 ± 1.5	1.0 ± 0.6	2.6 ± 0.9	10.5 ± 3.4
1983-84	7.3 ± 4.5	3.2 ± 2.1	0.5 ± 0.4	0.4 ± 0.4	0.8 ± 0.8	0.2 ± 0.2	2.5 ± 1.6	14.9 ± 5.3
1984-85	0.7 ± 0.7	2.3 ± 1.3	0.8 ± 0.6	0.0	1.8 ± 1.4	0.1 ± 0.1	0.7 ± 0.4	6.5 ± 2.1
1985-86	5.7 ± 3.1	2.2 ± 1.2	0.6 ± 0.6	0.1 ± 0.1	0.9 ± 0.5	2.7 ± 2.2	0.5 ± 0.3	12.9 ± 4.0
<b>Gafftopsail catfish</b>								
1974-76	1.0 ± 0.7	4.0 ± 3.0	1.5 ± 0.8	0.0	3.3 ± 3.0	0.0	0.0	9.8 ± 1.7
1976-77	1.7 ± 1.3	0.5 ± 0.5	1.7 ± 1.4	0.2 ± 0.2	1.1 ± 0.8	0.0	0.0	5.2 ± 2.1
1977-78	1.0 ± 0.6	1.9 ± 1.6	0.4 ± 0.3	0.7 ± 0.5	0.1 ± 0.1	0.0	0.0	4.1 ± 1.8
1978-79	9.5 ± 6.7	0.2 ± 0.2	0.3 ± 0.2	1.5 ± 1.2	1.0 ± 0.8	0.0	0.0	12.5 ± 6.9
1979-80	0.0	0.0	0.5 ± 0.3	<.1 ± <.1	0.7 ± 0.7	0.0	0.0	1.3 ± 0.7
1980-81	0.0	0.5 ± 0.5	0.3 ± 0.2	0.2 ± 0.2	0.5 ± 0.5	0.0	0.0	1.4 ± 0.7
1981-82	0.0	0.2 ± 0.2	0.3 ± 0.0	0.4 ± 0.3	0.0	0.2 ± 0.2	0.0	0.7 ± 0.3
1982-83	0.0	0.0	0.6 ± 0.5	0.1 ± 0.1	2.5 ± 1.7	0.0	0.0	3.2 ± 1.8
1983-84	1.1 ± 1.1	<.1 ± <.1	0.6 ± 0.6	0.0	0.1 ± 0.1	0.0	0.0	1.8 ± 1.2
1984-85	0.0	0.8 ± 0.6	0.2 ± 0.2	0.0	0.1 ± 0.1	0.0	0.0	1.1 ± 0.6
1985-86	3.0 ± 1.9	1.0 ± 0.6	0.0	0.1 ± 0.1	0.1 ± 0.1	0.0	0.0	4.1 ± 2.0

Table D.7. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>		
	Upper					Lower					Laguna Madre	Coastwide <sup>a</sup>	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre				
<b>Red drum</b>													
1974-76	13.2 ± 10.4	15.3 ± 8.1	6.6 ± 2.8	2.0 ± 1.2	1.9 ± 1.3	7.5 ± 2.5	5.7 ± 2.8	52.2 ± 7.8					
1976-77	0.8 ± 0.6	1.9 ± 1.0	0.9 ± 0.4	1.5 ± 0.6	0.2 ± 0.1	1.6 ± 0.9	2.0 ± 0.9	8.9 ± 1.9					
1977-78	2.0 ± 1.0	2.7 ± 1.3	6.7 ± 1.9	5.0 ± 2.3	0.3 ± 0.1	0.7 ± 0.3	2.8 ± 1.1	20.0 ± 3.6					
1978-79	0.9 ± 0.6	3.9 ± 2.7	13.6 ± 6.2	1.6 ± 0.9	0.3 ± 0.2	0.2 ± 0.1	0.9 ± 0.3	21.4 ± 6.9					
1979-80	0.8 ± 0.7	6.9 ± 4.5	5.8 ± 4.4	2.7 ± 1.9	4.8 ± 2.9	6.5 ± 2.7	5.9 ± 2.7	33.3 ± 8.1					
1980-81	5.3 ± 3.4	1.6 ± 0.9	4.7 ± 2.6	0.7 ± 0.4	1.4 ± 0.8	3.2 ± 1.8	1.4 ± 0.9	18.3 ± 4.9					
1981-82	0.8 ± 0.5	6.0 ± 5.4	6.4 ± 3.8	4.9 ± 2.9	0.6 ± 0.3	3.3 ± 1.0	1.1 ± 0.9	23.9 ± 7.9					
1982-83	0.8 ± 0.6	1.5 ± 1.0	1.2 ± 0.5	5.3 ± 4.9	0.2 ± 0.2	1.5 ± 0.7	2.2 ± 0.6	12.8 ± 5.1					
1983-84	2.1 ± 0.9	5.0 ± 3.5	5.7 ± 4.1	1.2 ± 1.0	0.1 ± 0.1	0.1 ± 0.1	3.1 ± 1.3	17.4 ± 5.7					
1984-85	0.8 ± 0.7	3.6 ± 2.1	3.8 ± 2.8	1.8 ± 1.1	3.1 ± 1.3	0.9 ± 0.5	2.7 ± 0.8	16.8 ± 4.1					
1985-86	0.5 ± 0.3	0.5 ± 0.3	0.7 ± 0.4	2.8 ± 1.0	3.3 ± 1.9	1.6 ± 0.8	3.0 ± 1.4	12.5 ± 2.8					
<b>Sand seatrout</b>													
1974-76	57.5 ± 40.0	0.3 ± 0.3	0.6 ± 0.6	0.7 ± 0.6	7.9 ± 3.8	2.3 ± 1.4	2.4 ± 1.8	71.7 ± 25.7					
1976-77	1.0 ± 0.7	<.1 ± <.1	0.0 ± 0.0	0.0 ± 0.0	17.3 ± 11.5	0.0 ± 0.0	0.4 ± 0.4	18.8 ± 11.6					
1977-78	13.4 ± 12.1	2.4 ± 2.4	0.4 ± 0.3	0.5 ± 0.4	1.6 ± 1.3	0.5 ± 0.5	1.5 ± 1.3	20.3 ± 12.5					
1978-79	57.6 ± 57.0	0.0 ± 0.0	0.0 ± 0.0	3.0 ± 2.1	1.0 ± 0.7	0.9 ± 0.9	0.5 ± 0.4	63.1 ± 57.1					
1979-80	15.5 ± 9.0	0.1 ± 0.1	0.0 ± 0.0	<.1 ± <.1	2.8 ± 1.8	1.2 ± 0.8	1.3 ± 0.6	20.9 ± 9.2					
1980-81	0.3 ± 0.3	0.0 ± 0.0	0.0 ± 0.0	4.5 ± 4.5	10.5 ± 7.2	0.1 ± 0.1	0.6 ± 0.6	11.4 ± 7.2					
1981-82	0.0 ± 0.0	1.3 ± 1.3	<.1 ± <.1	1.1 ± 1.1	4.1 ± 2.5	0.1 ± 0.1	1.4 ± 1.1	11.4 ± 5.4					
1982-83	32.2 ± 32.2	<.1 ± <.1	<.1 ± <.1	1.1 ± 1.1	5.9 ± 2.9	0.2 ± 0.1	0.1 ± 0.1	7.3 ± 3.1					
1983-84	0.4 ± 0.4	1.0 ± 1.0	0.6 ± 0.6	1.1 ± 1.1	0.0 ± 0.0	0.0 ± 0.0	<.1 ± <.1	33.4 ± 32.2					
1984-85	8.1 ± 5.9	0.2 ± 0.1	0.3 ± 0.3	22.6 ± 15.8	0.4 ± 0.3	1.0 ± 1.0	12.8 ± 9.3	15.8 ± 9.4					
1985-86						2.3 ± 1.9	1.9 ± 1.9	36.0 ± 17.1					
<b>Sheepshead</b>													
1974-76	4.9 ± 2.7	2.6 ± 1.6	1.1 ± 0.5	7.4 ± 7.1	2.6 ± 1.8	1.9 ± 0.8	1.4 ± 0.6	21.9 ± 5.0					
1976-77	1.1 ± 0.7	0.7 ± 0.5	<.1 ± <.1	1.1 ± 0.5	0.9 ± 0.5	0.5 ± 0.4	1.0 ± 0.6	5.3 ± 1.5					
1977-78	5.0 ± 2.3	2.1 ± 1.5	1.6 ± 1.2	3.0 ± 1.4	0.3 ± 0.3	1.3 ± 0.7	4.3 ± 2.4	17.7 ± 4.2					
1978-79	3.3 ± 2.3	3.4 ± 2.0	0.6 ± 0.3	1.6 ± 1.0	1.1 ± 0.6	1.3 ± 0.4	5.3 ± 3.9	16.7 ± 5.0					
1979-80	0.6 ± 0.6	2.8 ± 1.4	0.1 ± 0.1	0.0 ± 0.0	3.5 ± 2.0	0.4 ± 0.1	12.5 ± 9.1	19.9 ± 9.4					
1980-81	2.5 ± 1.7	8.2 ± 7.6	0.5 ± 0.3	0.1 ± 0.1	17.2 ± 15.3	1.6 ± 0.6	2.6 ± 1.6	32.5 ± 17.3					
1981-82	0.8 ± 0.4	11.2 ± 8.7	1.9 ± 1.7	10.3 ± 8.9	0.7 ± 0.6	2.0 ± 0.9	0.9 ± 0.3	27.8 ± 12.6					
1982-83	3.8 ± 3.6	0.3 ± 0.3	1.0 ± 0.5	0.7 ± 0.5	23.5 ± 21.1	1.7 ± 0.8	1.8 ± 0.6	32.9 ± 21.5					
1983-84	2.0 ± 1.2	8.0 ± 7.1	0.4 ± 0.3	0.3 ± 0.3	0.1 ± 0.1	0.0 ± 0.0	1.0 ± 0.9	11.7 ± 7.3					
1984-85	0.2 ± 0.2	2.0 ± 1.1	0.6 ± 0.4	1.7 ± 1.0	0.4 ± 0.4	0.1 ± 0.1	10.3 ± 5.7	15.3 ± 5.9					
1985-86	0.5 ± 0.4	0.7 ± 0.4	1.5 ± 1.1	4.9 ± 2.9	1.3 ± 0.9	0.3 ± 0.2	<.1 ± <.1	9.4 ± 3.3					

Table D.7. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>					
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre									
<b>Southern flounder</b>																
1974-76	6.6 ±	4.0	8.5 ±	7.2	1.3 ±	0.3	1.3 ±	0.7	1.2 ±	0.5	14.6 ±	5.6	1.1 ±	0.5	34.6 ±	5.2
1976-77	0.9 ±	0.5	6.1 ±	5.5	0.5 ±	0.3	0.6 ±	0.4	0.4 ±	0.4	<.1	<.1	<.1 ±	<.1	8.6 ±	5.6
1977-78	3.4 ±	1.3	2.8 ±	1.7	0.8 ±	0.4	0.6 ±	0.3	0.4 ±	0.2	0.7 ±	0.2	1.4 ±	0.7	10.2 ±	2.3
1978-79	2.5 ±	1.6	3.9 ±	3.6	0.1 ±	<.1	1.9 ±	1.6	0.8 ±	0.6	1.0 ±	0.4	0.8 ±	0.5	11.0 ±	4.3
1979-80	1.7 ±	0.9	2.0 ±	1.2	0.9 ±	0.8	0.4 ±	0.3	2.0 ±	1.0	1.2 ±	0.5	2.4 ±	0.6	10.7 ±	2.1
1980-81	4.2 ±	4.0	1.0 ±	0.9	0.1 ±	<.1	3.3 ±	3.0	0.4 ±	0.3	1.9 ±	1.1	1.1 ±	0.6	11.9 ±	5.2
1981-82	6.8 ±	5.5	0.8 ±	0.4	0.1 ±	<.1	0.8 ±	0.5	0.8 ±	0.2	2.7 ±	1.3	1.4 ±	0.7	13.3 ±	5.8
1982-83	9.5 ±	9.5	0.7 ±	0.4	<.1 ±	<.1	0.8 ±	0.5	1.0 ±	0.5	1.5 ±	0.5	2.7 ±	1.0	16.4 ±	9.6
1983-84	0.7 ±	0.4	0.5 ±	0.4	0.3 ±	0.2	0.1 ±	0.1	<.1 ±	<.1	0.0	0.8	0.1 ±	0.1	1.7 ±	0.6
1984-85	11.2 ±	11.0	2.2 ±	1.0	0.1 ±	0.1	1.7 ±	1.4	2.5 ±	1.6	1.8 ±	0.8	2.5 ±	1.1	22.1 ±	11.4
1985-86	4.3 ±	2.1	2.3 ±	1.4	1.5 ±	1.1	2.1 ±	1.0	4.6 ±	2.7	6.2 ±	2.1	20.9 ±	16.3	41.9 ±	16.9
<b>Spotted seatrout</b>																
1974-76	17.0 ±	11.8	23.5 ±	14.2	60.4 ±	30.8	34.3 ±	17.8	15.1 ±	6.0	110.0 ±	45.7	40.6 ±	14.1	300.9 ±	38.7
1976-77	12.1 ±	8.0	4.3 ±	2.9	0.9 ±	0.5	9.2 ±	5.5	2.7 ±	1.7	10.7 ±	5.3	76.7 ±	50.0	116.6 ±	51.3
1977-78	2.3 ±	1.3	8.8 ±	5.4	4.9 ±	2.3	6.3 ±	2.9	4.1 ±	2.0	18.3 ±	6.7	15.9 ±	6.2	60.6 ±	11.5
1978-79	4.2 ±	2.6	15.2 ±	15.0	1.1 ±	0.4	8.3 ±	2.7	2.7 ±	1.8	11.1 ±	4.7	8.3 ±	3.6	50.9 ±	16.8
1979-80	20.3 ±	19.7	10.5 ±	7.4	3.4 ±	1.8	10.0 ±	6.8	11.8 ±	5.0	44.8 ±	13.1	36.0 ±	11.5	136.8 ±	28.7
1980-81	5.6 ±	2.9	3.5 ±	2.6	7.8 ±	3.3	8.7 ±	5.4	9.8 ±	4.2	61.5 ±	32.6	11.2 ±	8.1	108.0 ±	34.7
1981-82	10.4 ±	6.0	15.3 ±	12.0	7.1 ±	5.6	13.9 ±	11.8	11.6 ±	6.0	37.8 ±	16.2	18.6 ±	6.9	114.7 ±	26.4
1982-83	1.1 ±	0.9	1.9 ±	1.6	1.5 ±	0.9	4.3 ±	2.6	9.9 ±	5.3	21.7 ±	8.7	22.3 ±	5.7	62.9 ±	12.2
1983-84	13.4 ±	11.3	34.5 ±	31.2	5.9 ±	4.0	0.8 ±	0.8	0.1 ±	0.1	3.2 ±	3.2	5.1 ±	2.8	62.9 ±	33.7
1984-85	6.1 ±	5.6	17.0 ±	12.9	0.8 ±	0.4	2.7 ±	1.5	20.2 ±	10.9	4.6 ±	2.5	23.7 ±	7.8	75.2 ±	19.7
1985-86	8.1 ±	6.4	6.3 ±	6.4	8.2 ±	3.5	14.9 ±	8.6	19.3 ±	8.9	26.6 ±	9.3	16.1 ±	5.4	99.6 ±	18.4
<b>Other species</b>																
1974-76	64.3 ±	49.0	0.7 ±	0.6	0.5 ±	0.3	1.0 ±	0.9	3.3 ±	2.6	0.0	0.0	2.6 ±	2.1	72.4 ±	31.6
1976-77	0.1 ±	0.1	1.3 ±	0.7	1.0 ±	0.8	0.1 ±	0.1	0.7 ±	0.3	0.0	0.0	6.6 ±	4.7	9.7 ±	4.8
1977-78	20.2 ±	19.3	0.9 ±	0.5	1.3 ±	0.5	0.9 ±	0.6	0.7 ±	0.5	0.0	0.0	1.0 ±	0.6	25.0 ±	19.3
1978-79	6.8 ±	3.5	<.1 ±	<.1	0.2 ±	0.1	1.1 ±	0.7	4.1 ±	2.6	0.0	0.0	0.1 ±	<.1	12.3 ±	4.4
1979-80	4.0 ±	4.0	2.8 ±	2.3	0.4 ±	0.2	0.0	0.0	2.0 ±	0.8	0.5 ±	0.3	0.6 ±	0.3	10.3 ±	4.7
1980-81	8.0 ±	5.3	0.4 ±	0.3	0.9 ±	0.7	1.2 ±	1.2	2.9 ±	1.5	1.6 ±	1.3	1.7 ±	1.1	16.7 ±	6.0
1981-82	32.9 ±	24.0	0.3 ±	0.2	0.1 ±	<.1	3.0 ±	2.0	1.3 ±	0.7	0.9 ±	0.4	0.2 ±	0.1	38.6 ±	24.1
1982-83	3.1 ±	2.1	0.0	0.0	0.4 ±	0.2	0.4 ±	0.3	16.9 ±	10.7	0.1 ±	0.1	1.2 ±	0.6	22.1 ±	11.0
1983-84	11.8		4.1 ±	3.3	0.8 ±	0.6	6.5 ±	6.5	0.2	0.2	1.7	0.1	0.2	0.2	25.3	
1984-85	0.6 ±	0.6	7.2		0.3		0.6 ±	0.4	1.1	1.1	0.8	0.8	14.9		25.6	
1985-86	3.6		7.0		6.6		0.9		0.0	0.0	5.2	5.2	0.0		23.4	

Table D.7. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
All species combined <sup>a</sup>												
1974-76	297.9 ± 114.2	61.7 ± 35.7	72.5 ± 31.5	47.9 ± 21.0	41.7 ± 12.6	146.0 ± 55.1	56.4 ± 18.0	724.1 ± 86.4				
1976-77	21.0 ± 13.3	19.9 ± 13.0	6.5 ± 3.2	13.5 ± 6.0	24.7 ± 12.3	14.3 ± 6.0	90.4 ± 56.5	190.3 ± 61.4				
1977-78	55.9 ± 25.9	23.9 ± 12.1	18.5 ± 3.9	18.0 ± 6.0	9.3 ± 3.2	25.2 ± 8.1	31.3 ± 9.5	182.0 ± 32.1				
1978-79	106.6 ± 69.3	26.9 ± 17.3	16.8 ± 6.6	19.4 ± 6.8	11.4 ± 4.0	16.4 ± 5.3	17.3 ± 5.5	214.9 ± 72.5				
1979-80	56.0 ± 28.0	32.8 ± 12.8	12.5 ± 6.4	13.2 ± 7.1	35.1 ± 12.7	55.9 ± 15.9	61.8 ± 18.2	267.4 ± 42.3				
1980-81	57.7 ± 32.8	21.3 ± 16.3	15.6 ± 4.5	14.3 ± 15.9	44.3 ± 15.9	71.4 ± 37.1	19.6 ± 9.9	244.2 ± 55.9				
1981-82	53.3 ± 33.0	38.1 ± 16.6	17.1 ± 9.1	39.4 ± 14.8	20.0 ± 7.4	56.3 ± 17.8	26.4 ± 8.7	250.5 ± 46.0				
1982-83	22.5 ± 12.0	6.1 ± 2.9	5.5 ± 1.7	13.0 ± 7.3	62.6 ± 30.1	29.0 ± 11.0	32.9 ± 6.2	171.5 ± 35.7				
1983-84	71.8 ± 36.8	55.4 ± 33.6	14.3 ± 8.8	22.3 ± 19.6	1.2 ± 0.8	5.2 ± 3.5	12.0 ± 5.4	182.3 ± 54.7				
1984-85	25.6 ± 14.1	37.5 ± 15.8	7.3 ± 2.9	8.5 ± 3.6	30.3 ± 11.8	10.0 ± 4.2	69.4 ± 20.4	188.6 ± 32.3				
1985-86	37.6 ± 15.8	22.9 ± 8.5	19.5 ± 9.4	48.7 ± 19.5	30.0 ± 12.8	45.4 ± 12.3	42.5 ± 19.4	246.6 ± 38.5				

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.



Table D.8. Estimated landings of fishes (No. X 1000) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekdays by species and bay system (1974-1986).

Species Year	Bay system							Upper			Lower			Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
<b>Atlantic croaker</b>														
1974-76	34.6 ± 33.5	0.0	0.1 ± 0.1	0.0	1.5 ± 1.5	84.2 ± 84.2	0.9 ± 0.9	121.3 ± 57.1						
1976-77	2.8	2.8	0.3	0.0	0.9	0.8	1.0	8.7						
1977-78	3.3	0.7	<.1	0.0	0.6	1.3	0.4	6.3						
1978-79	2.6	0.0	0.0	0.0	0.0	<.1	0.2	2.8						
1979-80	2.2 ± 2.2	1.5 ± 1.5	0.1 ± 0.1	0.2 ± 0.2	0.8 ± 0.7	0.0	0.0	4.8 ± 2.8						
1980-81	0.6 ± 0.3	0.5 ± 0.5	0.0	0.0	0.1 ± 0.1	0.4 ± 0.4	2.7 ± 2.7	4.4 ± 2.8						
1981-82	1.4 ± 0.9	0.0	0.0	0.0	0.6 ± 0.3	0.8 ± 0.5	0.1 ± 0.1	3.0 ± 1.1						
1982-83	1.7 ± 1.2	0.5 ± 0.4	0.0	2.3 ± 2.2	4.4 ± 2.6	1.0 ± 0.6	1.2 ± 0.6	11.2 ± 3.8						
1983-84	1.6 ± 1.6	0.0	0.0	0.0	0.0	<.1	<.1	1.6 ± 1.6						
1984-85	7.1 ± 6.2	0.0	0.0	0.3 ± 0.3	0.0	0.0	0.1 ± 0.2	7.5 ± 6.2						
1985-86	0.0	0.3 ± 0.3	0.0	2.1 ± 1.4	0.1 ± 0.1	0.4 ± 0.3	0.3 ± 0.3	3.1 ± 1.5						
<b>Black drum</b>														
1974-76	3.1 ± 2.5	0.0	0.8 ± 0.6	1.3 ± 0.8	2.9 ± 2.0	0.0	6.3 ± 4.7	14.4 ± 2.5						
1976-77	0.7	3.2	1.8	1.0	0.8	1.0	3.4	11.9						
1977-78	7.3	2.1	3.3	1.4	1.6	3.3	5.5	24.5						
1978-79	26.4	0.3	1.4	0.5	0.5	2.5	1.9	33.5						
1979-80	2.9 ± 1.9	1.1 ± 0.9	0.5 ± 0.3	0.2 ± 0.2	0.6 ± 0.3	5.7 ± 5.7	0.0	10.4 ± 6.0						
1980-81	17.0 ± 16.3	7.7 ± 5.3	0.1 ± 0.1	0.0	1.9 ± 1.3	0.4 ± 0.3	0.5 ± 0.3	26.3 ± 17.1						
1981-82	22.1 ± 18.1	2.2 ± 1.5	2.8 ± 2.3	6.6 ± 4.1	1.7 ± 1.3	2.8 ± 1.4	1.4	41.0 ± 18.5						
1982-83	40.8 ± 34.7	7.2 ± 4.0	2.9 ± 1.2	3.4 ± 2.0	1.9 ± 0.5	1.6 ± 0.5	2.7 ± 1.3	60.4 ± 35.0						
1983-84	0.5 ± 0.4	1.9 ± 1.3	0.4 ± 0.2	2.3 ± 1.8	2.2 ± 1.5	1.0 ± 0.9	2.2 ± 1.3	10.4 ± 3.2						
1984-85	2.8 ± 2.3	3.8 ± 2.1	0.3 ± 0.3	5.1 ± 4.9	0.1 ± 0.1	0.4 ± 0.4	3.3 ± 2.4	15.8 ± 6.3						
1985-86	0.1 ± 0.1	1.0 ± 0.5	0.0	0.3 ± 0.2	7.0 ± 5.8	0.2 ± 0.2	2.9 ± 1.3	11.5 ± 6.0						
<b>Gafftopsail catfish</b>														
1974-76	0.6 ± 0.6	9.3 ± 9.3	<.1 ± <.1	5.6 ± 5.6	0.0	0.0	0.0	15.5 ± 4.9						
1976-77	2.6	0.8	2.6	0.3	1.7	0.0	0.0	8.0						
1977-78	1.5	2.9	0.6	1.1	0.1	0.0	0.0	6.2						
1978-79	14.4	0.3	0.5	2.3	1.5	0.0	0.0	19.0						
1979-80	0.0	0.0	0.3 ± 0.3	0.0	2.5 ± 2.5	0.2 ± 0.2	0.0	3.0 ± 2.5						
1980-81	9.2 ± 7.6	0.6 ± 0.6	0.0	0.0	0.7 ± 0.7	0.0	0.0	10.5 ± 7.7						
1981-82	0.0	1.9 ± 1.9	0.0	1.8	14.5 ± 14.1	0.1 ± 0.1	0.0	18.3 ± 14.3						
1982-83	0.1 ± 0.1	0.6 ± 0.5	1.2 ± 0.7	0.0	1.8 ± 1.2	0.0	0.0	3.7 ± 1.5						
1983-84	0.0	0.4 ± 0.4	0.0	0.4 ± 0.4	0.0	0.0	0.0	0.8 ± 0.4						
1984-85	0.6 ± 0.6	0.0	0.0	0.3 ± 0.3	0.2 ± 0.2	0.0	0.1 ± 0.1	1.2 ± 0.7						
1985-86	0.0	0.0	0.0	0.2 ± 0.1	0.3 ± 0.3	0.1 ± 0.1	0.0	0.5 ± 0.3						

Table D.8. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
<b>Red drum</b>												
1974-76	18.3 ± 1.0	0.9 ± 1.1	6.3 ± 0.5	7.7 ± 0.9	4.2 ± 0.2	1.3 ± 1.9	4.0 ± 2.4	1.0	42.7 ± 8.0	5.9		
1976-77	2.4	1.6	4.0	3.0	0.4	0.8	3.4		15.6			
1977-78	1.1	2.3	8.2	1.0	0.4	0.2	1.1		14.3			
1978-79	3.1 ± 1.0	0.9 ± 0.8	3.6 ± 1.9	4.4 ± 0.0	1.2 ± 1.7	4.3 ± 1.9	2.2 ± 0.6	2.3	19.7 ± 2.4	6.5		
1979-80	1.5 ± 1.0	1.1 ± 0.8	<1 ± 0.8	0.0	2.0 ± 1.7	1.9 ± 1.0	0.6 ± 0.3	1.0	7.1 ± 2.4			
1980-81	7.1 ± 4.5	0.4 ± 0.2	1.7 ± 0.8	2.5 ± 1.4	1.2 ± 0.5	1.6 ± 0.7	2.6 ± 1.4	1.4	17.1 ± 5.1			
1981-82	1.3 ± 1.3	0.5 ± 0.3	1.5 ± 0.5	3.1 ± 1.5	0.5 ± 0.2	0.8 ± 0.3	5.9 ± 2.4	0.3	13.6 ± 3.2			
1982-83	3.4 ± 1.9	5.4 ± 3.9	0.5 ± 0.4	2.5 ± 1.8	3.4 ± 2.4	0.4 ± 0.3	2.8 ± 1.8	0.3	18.4 ± 5.6			
1983-84	8.6 ± 4.8	1.8 ± 1.4	2.1 ± 0.8	2.2 ± 1.2	3.3 ± 3.2	0.4 ± 0.4	4.5 ± 2.8	0.4	22.8 ± 6.7			
1984-85	0.9 ± 0.6	3.0 ± 1.4	0.8 ± 0.5	4.1 ± 1.6	4.0 ± 2.1	1.0 ± 0.8	6.1 ± 2.5	0.8	19.9 ± 4.1			
1985-86												
<b>Sand seatrout</b>												
1974-76	215.7 ± 208.4	1.9 ± 1.9	3.4 ± 0.0	8.5 ± 0.0	6.7 ± 3.8	1.3 ± 1.3	0.0	1.3	237.5 ± 131.2			
1976-77	1.4	<1	0.5	0.7	23.5	0.0	0.5	0.0	25.4			
1977-78	18.2	3.3	0.0	4.1	2.2	0.7	2.0	0.7	27.6			
1978-79	78.2	0.0	0.0	0.0	1.4	1.2	0.7	0.7	85.6			
1979-80	3.5 ± 2.3	0.0	0.0	0.0	3.9 ± 3.1	0.2 ± 0.1	0.0	0.0	7.7 ± 4.5			
1980-81	4.6 ± 2.6	0.0	0.0	0.0	3.8 ± 3.1	0.6 ± 0.4	0.4 ± 0.4	0.4	8.8 ± 4.1			
1981-82	3.5 ± 2.7	1.5 ± 1.5	<1 ± 0.7	1.1 ± 1.0	10.7 ± 7.0	0.6 ± 0.4	2.7 ± 1.5	1.5	20.1 ± 7.9			
1982-83	0.7 ± 0.7	<1 ± 1.0	1.3 ± 0.0	4.7 ± 4.2	37.7 ± 16.2	0.2 ± 0.1	2.3 ± 1.4	1.4	46.9 ± 16.8			
1983-84	<1 ± 0.1	1.0 ± 1.0	0.0	0.3 ± 0.2	1.0 ± 1.0	0.2 ± 0.0	0.6 ± 0.3	0.3	2.9 ± 1.5			
1984-85	13.6 ± 9.5	0.1 ± 0.1	0.0	0.0	0.2 ± 0.1	3.7 ± 2.9	0.2 ± 0.2	0.2	17.8 ± 10.0			
1985-86	0.0	0.2 ± 0.2	0.0	2.5 ± 1.1	26.7 ± 16.7	1.9 ± 1.3	1.0 ± 0.5	1.0	32.3 ± 16.8			
<b>Sheepshead</b>												
1974-76	13.4 ± 8.4	0.0	1.2 ± 0.6	39.6 ± 33.6	0.1 ± 0.1	5.1 ± 3.8	0.6 ± 0.6	3.8	60.0 ± 22.0			
1976-77	1.5	1.0	<1	1.5	1.2	0.7	1.4	1.3	7.3			
1977-78	6.8	2.9	2.2	4.1	0.4	1.8	5.8	0.8	24.0			
1978-79	4.5	4.6	0.8	2.2	1.5	1.8	7.2	1.8	22.6			
1979-80	52.9 ± 47.3	0.0	0.3 ± 0.2	14.5 ± 14.5	2.2 ± 1.3	3.7 ± 2.4	16.3 ± 10.1	2.4	90.0 ± 50.6			
1980-81	8.9 ± 7.8	0.9 ± 0.9	<1 ± 0.3	13.8 ± 9.7	33.5 ± 19.2	2.5 ± 2.0	2.8 ± 1.5	2.0	62.5 ± 23.1			
1981-82	2.8 ± 1.9	4.5 ± 3.0	0.5 ± 0.3	3.7 ± 2.1	14.1 ± 8.0	0.9 ± 0.4	16.5 ± 9.3	0.4	43.0 ± 13.0			
1982-83	0.8 ± 0.5	5.6 ± 3.6	4.7 ± 1.6	14.2 ± 10.6	37.9 ± 21.8	1.0 ± 0.7	10.7 ± 6.5	0.7	74.9 ± 25.4			
1983-84	1.7 ± 1.7	6.3 ± 6.1	0.2 ± 0.2	10.7 ± 6.4	0.6 ± 0.4	0.2 ± 0.2	8.5 ± 4.9	0.2	28.3 ± 10.3			
1984-85	0.3 ± 0.3	2.0 ± 0.9	0.0	34.5 ± 24.8	0.8 ± 0.8	0.2 ± 0.2	2.6 ± 1.5	0.2	40.4 ± 24.9			
1985-86	2.0 ± 1.5	2.6 ± 1.7	0.1 ± 0.1	11.9 ± 4.6	0.6 ± 0.3	0.2 ± 0.1	1.7 ± 1.3	0.1	19.0 ± 5.3			

Table D.8. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide <sup>a</sup>
<b>Southern flounder</b>								
1974-76	34.1 ± 0.9	11.6 ± 11.6	1.3 ± 0.7	5.9 ± 2.9	2.1 ± 1.3	9.0 ± 3.2	0.2 ± 0.2	64.2 ± 11.7
1976-77	3.4	6.0	0.5	0.6	0.4	<.1	<.1	8.4
1977-78	2.5	2.8	0.8	0.6	0.4	0.7	1.4	10.1
1978-79	191.9 ± 191.5	3.9	0.1	1.9	0.8	1.0	0.8	11.0
1979-80	0.3 ± 0.2	1.0 ± 1.0	0.1 ± 0.1	0.0	1.4 ± 0.9	0.8 ± 0.4	0.9 ± 0.9	196.2 ± 191.5
1980-81	4.2 ± 2.2	0.7 ± 0.5	<.1 ± 0.5	1.2 ± 0.5	9.7 ± 9.0	4.1 ± 3.0	0.4 ± 0.2	14.5 ± 9.5
1981-82	2.0 ± 1.0	0.8 ± 0.4	0.6 ± 0.6	1.4 ± 0.5	0.6 ± 0.3	0.5 ± 0.3	1.4 ± 0.4	9.3 ± 2.4
1982-83	6.1 ± 3.2	2.2 ± 1.5	0.1 ± 0.1	1.1 ± 0.9	0.8 ± 0.4	2.2 ± 0.7	2.5 ± 0.8	10.4 ± 1.7
1983-84	18.2 ± 12.4	0.4 ± 0.3	0.3 ± 0.2	1.5 ± 1.1	2.5 ± 1.6	0.8 ± 0.5	0.1 ± 0.1	10.5 ± 3.7
1984-85	4.8 ± 4.3	1.6 ± 1.1	0.2 ± 0.2	3.7 ± 1.8	5.6 ± 3.0	0.1 ± 0.1	5.1 ± 2.5	28.2 ± 12.8
1985-86						2.3 ± 1.8	6.1 ± 2.6	24.4 ± 6.2
<b>Spotted seatrout</b>								
1974-76	112.3 ± 66.0	16.7 ± 16.7	43.3 ± 16.5	89.5 ± 50.3	19.2 ± 8.1	74.0 ± 35.1	65.6 ± 33.6	420.6 ± 59.3
1976-77	27.9	3.7	0.8	21.2	6.2	9.1	107.0	175.9
1977-78	5.3	7.5	4.2	14.5	9.5	15.6	22.2	78.8
1978-79	9.7	13.0	0.9	19.1	6.2	9.5	11.6	70.0
1979-80	9.8	3.5 ± 9.8	6.6 ± 4.0	3.3 ± 1.8	6.2 ± 6.0	45.3 ± 25.3	31.3 ± 2.5	106.1 ± 36.2
1980-81	83.4 ± 64.9	3.0 ± 2.5	2.1 ± 1.3	6.7 ± 4.9	16.8 ± 9.1	60.2 ± 31.5	18.7 ± 9.9	190.8 ± 73.6
1981-82	20.3 ± 17.5	5.1 ± 4.1	4.5 ± 2.1	30.7 ± 9.5	34.6 ± 19.4	56.7 ± 31.9	26.2 ± 7.5	178.1 ± 43.2
1982-83	6.4 ± 4.5	6.8 ± 4.7	5.2 ± 1.7	19.6 ± 8.5	13.0 ± 4.8	30.6 ± 9.4	35.8 ± 12.0	117.4 ± 19.3
1983-84	57.7 ± 29.9	6.7 ± 4.1	0.7 ± 0.7	8.7 ± 6.7	6.9 ± 5.3	1.4 ± 1.0	19.2 ± 7.1	101.3 ± 32.2
1984-85	10.7 ± 9.0	6.6 ± 3.0	0.7 ± 0.4	26.0 ± 20.0	5.0 ± 3.7	1.4 ± 0.8	24.4 ± 11.6	74.9 ± 25.3
1985-86	1.5 ± 0.9	12.5 ± 6.0	1.2 ± 0.7	33.5 ± 14.3	27.1 ± 15.6	19.8 ± 6.7	20.0 ± 6.9	115.7 ± 24.0
<b>Other species</b>								
1974-76	17.9 ± 14.0	1.9 ± 1.9	0.7 ± 0.5	0.0	0.2 ± 0.2	1.3 ± 1.3	0.0	22.0 ± 8.8
1976-77	0.1	0.6	0.5	<.1	1.0	0.0	9.5	11.7
1977-78	29.0	0.4	0.6	0.4	1.0	0.0	1.4	32.8
1978-79	9.8	<.1	0.1	0.5	5.9	0.0	0.1	16.4
1979-80	0.0	0.0	0.0	0.0	44.5 ± 44.5	0.2 ± 0.2	1.3 ± 1.3	46.0 ± 44.6
1980-81	18.1 ± 12.2	<.1 ± 0.1	<.1 ± 0.1	0.0	3.0 ± 1.9	0.0	2.6 ± 2.1	23.8 ± 12.5
1981-82	6.3 ± 2.6	0.9 ± 0.9	0.1 ± 0.1	0.9 ± 0.5	4.1 ± 1.8	<.1 ± 0.1	0.8 ± 0.3	13.1 ± 3.4
1982-83	14.1 ± 7.0	0.0 ± 0.5	1.1 ± 0.5	1.4 ± 0.8	9.4 ± 3.8	0.3 ± 0.2	3.0 ± 1.5	29.4 ± 8.1
1983-84	26.5 ± 26.5	0.5 ± 0.5	0.0 ± 0.0	1.6 ± 0.3	0.4 ± 0.4	0.1 ± 0.1	2.0 ± 1.7	31.2
1984-85	2.8	<.1 ± 0.1	0.0 ± 0.0	0.3 ± 1.1	2.2 ± 3.7	<.1 ± 3.6	0.4 ± 0.7	5.7
1985-86	31.9	0.1 ± 0.1	0.0	1.1	3.7			41.8

Table D.8. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide <sup>a</sup>		
All species combined <sup>b</sup>										
1974-76	450.1 ± 288.6	42.4 ± 30.0	57.1 ± 21.2	157.9 ± 60.6	36.8 ± 15.0	176.4 ± 107.1	77.6 ± 33.4	998.3 ± 198.6		
1976-77	38.9	19.2	7.0	25.5	35.9	13.5	125.2	265.2		
1977-78	77.2	24.2	16.2	25.8	16.2	24.2	42.1	225.9		
1978-79	149.2	24.4	12.0	31.5	18.2	16.2	23.6	275.1		
1979-80	266.3 ± 236.0	8.1 ± 5.6	11.5 ± 5.2	22.6 ± 20.2	62.9 ± 44.0	60.3 ± 24.3	52.0 ± 34.2	483.8 ± 244.7		
1980-81	143.7 ± 79.1	14.1 ± 8.0	2.2 ± 1.3	20.6 ± 12.1	70.1 ± 28.7	69.5 ± 35.5	28.8 ± 11.3	348.9 ± 93.1		
1981-82	67.7 ± 47.2	17.2 ± 8.3	10.4 ± 3.9	48.6 ± 13.1	82.3 ± 24.9	64.0 ± 32.5	52.8 ± 15.4	343.0 ± 66.3		
1982-83	68.1 ± 37.2	22.2 ± 9.6	18.4 ± 3.8	50.3 ± 18.0	107.0 ± 35.6	37.7 ± 10.5	64.2 ± 15.8	367.9 ± 58.7		
1983-84	97.5 ± 40.3	24.3 ± 14.3	2.1 ± 1.5	27.7 ± 17.1	14.7 ± 9.2	3.9 ± 2.8	35.4 ± 11.9	205.6 ± 48.6		
1984-85	64.8 ± 31.9	14.7 ± 5.8	3.5 ± 1.3	70.1 ± 38.3	14.2 ± 8.5	6.2 ± 3.2	40.7 ± 14.4	214.2 ± 52.9		
1985-86	41.2 ± 22.1	21.4 ± 7.5	2.2 ± 1.0	59.2 ± 18.3	75.0 ± 26.9	29.4 ± 9.5	39.7 ± 11.2	268.0 ± 42.7		

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.9. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1974-1986).

Species Year	Bay system							Upper			Lower		
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide					
<b>Atlantic croaker</b>													
1974-76	0.24 $\pm$ 0.12	0.03 $\pm$ 0.02	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.05 $\pm$ 0.02	0.21 $\pm$ 0.12	0.01 $\pm$ 0.01	0.14 $\pm$ 0.05					
1976-77	0.52	0.07	<.01	0.02	0.10	0.08	0.03	0.19					
1977-78	0.40	0.05	<.01	0.01	0.08	0.10	0.02	0.22					
1978-79	0.24	0.04	0.01	<.01	0.05	0.19	0.02	0.14					
1979-80	0.13 $\pm$ 0.06	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.03 $\pm$ 0.02	0.22 $\pm$ 0.12	0.01 $\pm$ <.01	0.09 $\pm$ 0.03					
1980-81	0.17 $\pm$ 0.10	0.08 $\pm$ 0.04	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.20 $\pm$ 0.17	0.04 $\pm$ 0.01	0.02 $\pm$ 0.01	0.12 $\pm$ 0.05					
1981-82	0.10 $\pm$ 0.03	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.12 $\pm$ 0.06	0.03 $\pm$ 0.01	0.01 $\pm$ <.01	0.06 $\pm$ 0.01					
1982-83	0.12 $\pm$ 0.02	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.04 $\pm$ 0.01	0.03 $\pm$ 0.02	0.01 $\pm$ <.01	0.05 $\pm$ 0.01					
1983-84	0.08 $\pm$ 0.02	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.06 $\pm$ 0.03	0.05 $\pm$ 0.02	0.04 $\pm$ 0.01	0.01 $\pm$ <.01	0.05 $\pm$ 0.01					
1984-85	0.14 $\pm$ 0.03	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.02 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.06 $\pm$ 0.01					
1985-86	0.11 $\pm$ 0.04	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.02 $\pm$ <.01	0.01 $\pm$ <.01	0.05 $\pm$ 0.01					
<b>Black drum</b>													
1974-76	0.01 $\pm$ <.01	0.03 $\pm$ 0.02	0.01 $\pm$ <.01	0.03 $\pm$ 0.03	0.05 $\pm$ 0.02	0.02 $\pm$ 0.01	0.03 $\pm$ 0.02	0.02 $\pm$ <.01					
1976-77	0.07	0.04	0.12	0.02	0.03	0.04	0.02	0.05					
1977-78	0.05	0.05	0.03	0.02	0.03	0.02	0.02	0.04					
1978-79	0.05	0.03	0.02	0.01	0.01	0.02	0.04	0.04					
1979-80	0.02 $\pm$ 0.01	0.03 $\pm$ 0.02	0.01 $\pm$ <.01	0.05 $\pm$ 0.03	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01					
1980-81	0.04 $\pm$ 0.02	0.07 $\pm$ 0.03	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.01					
1981-82	0.03 $\pm$ 0.01	0.05 $\pm$ 0.01	0.05 $\pm$ 0.01	0.04 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.01					
1982-83	0.06 $\pm$ 0.02	0.06 $\pm$ 0.02	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.04 $\pm$ 0.01					
1983-84	0.01 $\pm$ <.01	0.03 $\pm$ 0.01	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01					
1984-85	0.02 $\pm$ <.01	0.03 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01					
1985-86	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01					
<b>Gafftopsail catfish</b>													
1974-76	0.01 $\pm$ 0.01	0.03 $\pm$ 0.02	0.01 $\pm$ <.05	0.02 $\pm$ 0.02	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ <.01					
1976-77	0.02	0.12	0.02	0.01	0.03	0.00	<.01	0.02					
1977-78	<.01	0.06	0.02	0.01	0.01	0.00	0.00	0.01					
1978-79	0.02	0.05	0.01	0.02	0.02	<.01	<.01	0.02					
1979-80	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01					
1980-81	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01					
1981-82	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.05 $\pm$ 0.04	0.00	0.00	<.01 $\pm$ <.01					
1982-83	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	0.00	0.00	<.01 $\pm$ <.01					
1983-84	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01					
1984-85	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ 0.00					
1985-86	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01					

Table D.9. (Cont'd.)

Species Year	Bay system							Lower		Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre			
<b>Red drum</b>										
1974-76	0.04 ± 0.02	0.06 ± 0.03	0.12 ± 0.03	0.04 ± 0.01	0.06 ± 0.03	0.03 ± 0.01	0.06 ± 0.02	0.05 ± 0.01		
1976-77	0.03	0.05	0.10	0.04	0.06	0.02	0.03	0.04		
1977-78	0.03	0.02	0.06	0.07	0.02	0.01	0.03	0.03		
1978-79	0.02	0.04	0.09	0.01	0.02	0.01	0.02	0.02		
1979-80	0.02 ± 0.01	0.05 ± 0.03	0.09 ± 0.03	0.05 ± 0.03	0.02 ± 0.01	0.03 ± 0.01	0.07 ± 0.03	0.03 ± 0.01		
1980-81	0.03 ± 0.01	0.05 ± 0.02	0.05 ± 0.02	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01		
1981-82	0.02 ± 0.01	0.04 ± 0.01	0.09 ± 0.03	0.03 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01		
1982-83	0.02 ± <0.01	0.04 ± 0.01	0.05 ± 0.01	0.06 ± 0.02	0.02 ± <0.01	0.02 ± <0.01	0.04 ± 0.01	0.03 ± <0.01		
1983-84	0.01 ± <0.01	0.07 ± 0.02	0.11 ± 0.02	0.06 ± 0.02	0.03 ± 0.01	0.02 ± <0.01	0.06 ± 0.01	0.01 ± <0.01		
1984-85	0.01 ± <0.01	0.02 ± 0.01	0.05 ± 0.02	0.04 ± 0.01	0.03 ± 0.01	0.01 ± <0.01	0.04 ± <0.01	0.02 ± <0.01		
1985-86	0.01 ± <0.01	0.03 ± 0.01	0.04 ± 0.01	0.05 ± 0.01	0.04 ± 0.01	0.02 ± <0.01	0.05 ± 0.01	0.03 ± <0.01		
<b>Sand seatrout</b>										
1974-76	0.25 ± 0.16	0.11 ± 0.08	0.02 ± 0.01	0.03 ± 0.02	0.34 ± 0.12	0.07 ± 0.06	0.02 ± 0.01	0.16 ± 0.07		
1976-77	0.58	0.09	<0.01	0.14	0.53	0.05	0.04	0.25		
1977-78	0.16	0.06	0.01	0.04	0.24	0.02	0.09	0.11		
1978-79	0.34	0.04	<0.01	0.03	0.11	0.01	0.01	0.17		
1979-80	0.15 ± 0.10	0.02 ± 0.01	0.02 ± 0.01	<0.01 ± <0.01	0.19 ± 0.14	0.05 ± 0.03	0.03 ± 0.02	0.11 ± 0.05		
1980-81	0.16 ± 0.05	0.04 ± 0.02	<0.01 ± <0.01	0.04 ± 0.01	0.61 ± 0.52	0.01 ± <0.01	0.02 ± 0.01	0.16 ± 0.08		
1981-82	0.08 ± 0.02	0.09 ± 0.04	0.01 ± 0.01	0.03 ± 0.01	0.18 ± 0.04	0.02 ± 0.01	0.06 ± 0.02	0.07 ± 0.01		
1982-83	0.17 ± 0.05	0.05 ± 0.02	0.02 ± 0.01	0.05 ± 0.01	0.26 ± 0.06	0.01 ± <0.04	0.03 ± 0.01	0.10 ± 0.01		
1983-84	0.08 ± 0.04	0.05 ± 0.02	0.01 ± <0.01	0.05 ± 0.02	0.13 ± 0.05	0.02 ± <0.01	0.02 ± <0.01	0.06 ± 0.01		
1984-85	0.20 ± 0.06	0.03 ± 0.02	0.02 ± 0.01	0.06 ± 0.02	0.04 ± 0.02	0.03 ± 0.01	0.04 ± 0.02	0.10 ± 0.02		
1985-86	0.07 ± 0.03	0.04 ± 0.01	0.02 ± <0.01	0.06 ± 0.02	0.08 ± 0.03	0.01 ± <0.01	0.02 ± 0.01	0.05 ± 0.01		
<b>Sheepshead</b>										
1974-76	0.01 ± <0.01	0.02 ± 0.01	0.01 ± <0.01	0.09 ± 0.07	0.02 ± 0.01	0.02 ± 0.01	<0.01 ± <0.01	0.02 ± 0.01		
1976-77	0.02	0.06	0.01	0.03	0.03	0.01	0.02	0.02		
1977-78	0.08	0.05	0.02	0.04	0.02	0.01	0.02	0.06		
1978-79	0.02	0.05	0.01	0.02	0.03	0.01	0.03	0.02		
1979-80	0.04 ± 0.03	0.03 ± 0.01	0.02 ± 0.01	0.09 ± 0.08	0.02 ± 0.01	0.01 ± 0.01	0.11 ± 0.05	0.04 ± 0.01		
1980-81	0.02 ± 0.01	0.03 ± 0.01	0.01 ± <0.01	0.07 ± 0.04	0.09 ± 0.04	0.01 ± 0.01	0.03 ± 0.01	0.03 ± 0.01		
1981-82	0.02 ± 0.01	0.06 ± 0.02	0.03 ± 0.01	0.06 ± 0.02	0.06 ± 0.02	0.01 ± <0.01	0.05 ± 0.03	0.03 ± 0.01		
1982-83	0.03 ± 0.01	0.05 ± 0.02	0.02 ± 0.01	0.04 ± 0.02	0.15 ± 0.07	0.01 ± <0.01	0.03 ± 0.01	0.04 ± 0.01		
1983-84	0.01 ± <0.01	0.03 ± 0.02	0.01 ± <0.01	0.03 ± 0.01	<0.01 ± <0.01	0.01 ± <0.01	0.02 ± 0.01	0.02 ± <0.01		
1984-85	0.02 ± <0.01	0.03 ± 0.01	0.01 ± <0.01	0.10 ± 0.07	0.01 ± <0.01	<0.01 ± <0.01	0.02 ± 0.01	0.02 ± <0.01		
1985-86	0.01 ± <0.01	0.01 ± <0.01	0.02 ± 0.01	0.03 ± 0.01	<0.01 ± 0.01	<0.01 ± 0.00	<0.01 ± <0.01	0.01 ± <0.01		

Table D.9. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
<b>Southern flounder</b>								
1974-76	0.03 ± 0.01	0.06 ± 0.03	0.03 ± 0.01	0.05 ± 0.02	0.01 ± 0.01	0.08 ± 0.03	<.01 ± <.01	0.04 ± 0.01
1976-77	0.03	0.06	0.03	0.02	0.04	0.01	0.01	0.02
1977-78	0.02	0.04	0.03	0.04	0.02	0.01	0.02	0.02
1978-79	0.02	0.04	0.02	0.02	0.05	0.01	0.02	0.02
1979-80	0.22 ± 0.15	0.03 ± 0.01	0.03 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.12 ± 0.07
1980-81	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.04 ± 0.02	0.10 ± 0.06	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01
1981-82	0.02 ± 0.01	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.06 ± 0.03	0.01 ± <.01	0.03 ± 0.01	0.02 ± <.01
1982-83	0.06 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.02 ± <.01	0.02 ± <.01	0.05 ± 0.01	0.04 ± 0.01
1983-84	0.03 ± 0.01	0.04 ± 0.01	0.01 ± <.01	0.03 ± 0.02	0.03 ± 0.01	0.01 ± <.01	0.02 ± <.01	0.03 ± 0.01
1984-85	0.05 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.01	0.01 ± <.01	0.02 ± <.01	0.03 ± <.01
1985-86	0.04 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.02 ± <.01	0.08 ± 0.03	0.04 ± 0.01
<b>Spotted seatrout</b>								
1974-76	0.22 ± 0.09	0.40 ± 0.20	0.84 ± 0.24	1.41 ± 0.68	0.29 ± 0.11	0.46 ± 0.14	0.33 ± 0.10	0.42 ± 0.09
1976-77	0.16	0.10	0.33	0.76	0.68	0.87	0.71	0.47
1977-78	0.15	0.26	0.20	0.62	0.69	0.25	0.42	0.27
1978-79	0.20	0.17	0.09	0.52	0.33	0.15	0.34	0.23
1979-80	0.06 ± 0.03	0.11 ± 0.05	0.53 ± 0.24	0.49 ± 0.19	0.11 ± 0.06	0.33 ± 0.09	0.48 ± 0.16	0.19 ± 0.04
1980-81	0.38 ± 0.18	0.12 ± 0.05	0.26 ± 0.08	0.33 ± 0.09	0.15 ± 0.05	0.34 ± 0.08	0.36 ± 0.09	0.30 ± 0.07
1981-82	0.18 ± 0.05	0.31 ± 0.07	0.34 ± 0.06	0.37 ± 0.08	0.41 ± 0.08	0.28 ± 0.07	0.45 ± 0.06	0.28 ± 0.03
1982-83	0.15 ± 0.04	0.21 ± 0.04	0.22 ± 0.04	0.26 ± 0.05	0.22 ± 0.05	0.28 ± 0.04	0.45 ± 0.05	0.23 ± 0.02
1983-84	0.12 ± 0.04	0.24 ± 0.06	0.30 ± 0.08	0.21 ± 0.06	0.19 ± 0.07	0.26 ± 0.04	0.33 ± 0.04	0.20 ± 0.03
1984-85	0.06 ± 0.01	0.07 ± 0.03	0.03 ± 0.01	0.09 ± 0.05	0.07 ± 0.02	0.03 ± 0.01	0.16 ± 0.03	0.08 ± 0.01
1985-86	0.06 ± 0.02	0.09 ± 0.02	0.14 ± 0.03	0.11 ± 0.03	0.14 ± 0.04	0.10 ± 0.02	0.16 ± 0.02	0.10 ± 0.01
<b>Other species</b>								
1974-76	0.03 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.05 ± 0.02	0.01 ± 0.01	0.03 ± 0.02	0.03 ± 0.01
1976-77	0.03	0.02	0.02	0.01	0.04	0.01	0.04	0.03
1977-78	0.03	0.03	0.02	0.01	0.02	0.01	0.01	0.02
1978-79	0.04	0.02	0.01	0.01	0.04	<.01	<.01	0.02
1979-80	0.03 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.13 ± 0.11	0.11 ± 0.10	0.02 ± 0.01	0.05 ± 0.02
1980-81	0.05 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.09 ± 0.06	0.02 ± 0.01	0.01 ± 0.01	0.04 ± 0.01
1981-82	0.05 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.05 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.03 ± 0.01
1982-83	0.05 ± 0.01	0.02 ± <.01	0.02 ± <.01	0.05 ± 0.01	0.10 ± 0.03	0.01 ± 0.01	0.02 ± <.01	0.04 ± <.01
1983-84	0.03	0.03	0.04	0.06	0.03	0.01	0.02	0.03
1984-85	0.03	0.03	0.02	0.02	0.02	0.01	0.03	0.02
1985-86	0.04	0.03	0.04	0.01	0.02	0.02	0.01	0.02

Table D.9. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
All species combined <sup>a</sup>									
1974-76	0.86 ± 0.34	0.75 ± 0.35	1.09 ± 0.28	1.69 ± 0.71	0.89 ± 0.27	0.90 ± 0.28	0.49 ± 0.13	0.88 ± 0.18	
1976-77	1.44	0.60	0.64	1.06	1.53	1.08	0.88	1.08	
1977-78	0.93	0.62	0.39	0.85	1.14	0.44	0.63	0.78	
1978-79	0.93	0.49	0.25	0.64	0.67	0.40	0.48	0.69	
1979-80	0.68 ± 0.33	0.31 ± 0.13	0.72 ± 0.25	0.72 ± 0.25	0.53 ± 0.30	0.79 ± 0.24	0.76 ± 0.26	0.65 ± 0.17	
1980-81	0.88 ± 0.28	0.43 ± 0.16	0.39 ± 0.11	0.54 ± 0.13	1.27 ± 0.85	0.47 ± 0.11	0.52 ± 0.12	0.75 ± 0.17	
1981-82	0.50 ± 0.11	0.62 ± 0.12	0.56 ± 0.09	0.57 ± 0.10	0.98 ± 0.17	0.38 ± 0.09	0.65 ± 0.09	0.55 ± 0.06	
1982-83	0.64 ± 0.10	0.49 ± 0.08	0.39 ± 0.06	0.50 ± 0.10	0.84 ± 0.16	0.39 ± 0.06	0.64 ± 0.07	0.58 ± 0.04	
1983-84	0.39 ± 0.11	0.52 ± 0.10	0.51 ± 0.11	0.52 ± 0.14	0.47 ± 0.15	0.36 ± 0.05	0.48 ± 0.06	0.44 ± 0.05	
1984-85	0.54 ± 0.10	0.24 ± 0.05	0.19 ± 0.03	0.36 ± 0.12	0.23 ± 0.05	0.10 ± 0.03	0.32 ± 0.06	0.36 ± 0.04	
1985-86	0.40 ± 0.10	0.28 ± 0.05	0.29 ± 0.07	0.33 ± 0.05	0.35 ± 0.08	0.20 ± 0.04	0.35 ± 0.05	0.32 ± 0.04	

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.



Table D.10. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekends by species and bay system (1974-1985).

Species Year	Bay system						Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
<b>Atlantic croaker</b>								
1975	0.29 $\pm$ 0.19	0.04 $\pm$ 0.03	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.04 $\pm$ 0.03	0.24 $\pm$ 0.11	0.03 $\pm$ 0.02	0.14 $\pm$ 0.07
1976	0.55 $\pm$ 0.22	0.08 $\pm$ 0.06	<.01 $\pm$ <.01	0.02 $\pm$ 0.02	0.10 $\pm$ 0.04	0.09 $\pm$ 0.03	0.03 $\pm$ 0.01	0.24 $\pm$ 0.08
1977	0.43 $\pm$ 0.18	0.06 $\pm$ 0.03	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.09 $\pm$ 0.05	0.16 $\pm$ 0.10	0.03 $\pm$ 0.01	0.26 $\pm$ 0.09
1978	0.27 $\pm$ 0.08	0.05 $\pm$ 0.03	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.07 $\pm$ 0.02	0.26 $\pm$ 0.16	0.02 $\pm$ 0.01	0.16 $\pm$ 0.04
1979	0.34 $\pm$ 0.14	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.05 $\pm$ 0.02	0.05 $\pm$ 0.03	0.02 $\pm$ 0.01	0.18 $\pm$ 0.07
1980	0.23 $\pm$ 0.09	0.05 $\pm$ 0.02	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.16 $\pm$ 0.09	0.04 $\pm$ 0.01	0.01 $\pm$ 0.01	0.10 $\pm$ 0.02
1981	0.12 $\pm$ 0.06	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.24 $\pm$ 0.19	0.05 $\pm$ 0.02	0.01 $\pm$ 0.01	0.08 $\pm$ 0.03
1982	0.10 $\pm$ 0.03	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.03 $\pm$ 0.02	0.03 $\pm$ 0.01	0.05 $\pm$ 0.03	0.02 $\pm$ 0.01	0.06 $\pm$ 0.01
1983	0.08 $\pm$ 0.04	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.03 $\pm$ 0.02	0.04 $\pm$ 0.03	0.05 $\pm$ 0.01	0.01 $\pm$ <.01	0.05 $\pm$ 0.01
1984	0.15 $\pm$ 0.05	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.08 $\pm$ 0.02
1985	0.15 $\pm$ 0.05	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.01	0.01 $\pm$ <.01	0.06 $\pm$ 0.02
<b>Black drum</b>								
1975	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.04 $\pm$ 0.04	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
1976	0.06 $\pm$ 0.02	0.02 $\pm$ 0.01	0.12 $\pm$ 0.09	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	0.04 $\pm$ 0.03	0.01 $\pm$ <.01	0.04 $\pm$ 0.01
1977	0.04 $\pm$ 0.01	0.05 $\pm$ 0.02	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.03 $\pm$ 0.01
1978	0.02 $\pm$ 0.01	0.03 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.02 $\pm$ <.01
1979	0.05 $\pm$ 0.02	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.08 $\pm$ 0.05	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.03 $\pm$ <.01
1980	0.03 $\pm$ 0.01	0.08 $\pm$ 0.05	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.04 $\pm$ 0.02	0.01 $\pm$ <.01	0.03 $\pm$ 0.02	0.03 $\pm$ 0.01
1981	<.01 $\pm$ <.01	0.05 $\pm$ 0.02	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01
1982	0.04 $\pm$ 0.01	0.04 $\pm$ 0.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.03 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.03 $\pm$ <.01
1983	0.01 $\pm$ <.01	0.03 $\pm$ 0.01	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01
1984	0.02 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01
1985	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01
<b>Gafftopsail catfish</b>								
1975	0.02 $\pm$ 0.02	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.00	0.00	0.00	0.01 $\pm$ 0.01
1976	0.01 $\pm$ 0.01	0.09 $\pm$ 0.08	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	<.01	<.01	0.02 $\pm$ 0.01
1977	<.01 $\pm$ <.01	0.07 $\pm$ 0.04	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01
1978	<.01 $\pm$ <.01	0.05 $\pm$ 0.03	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	<.01	<.01	0.01 $\pm$ <.01
1979	0.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	<.01	<.01	0.01 $\pm$ <.01
1980	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01	0.00	<.01 $\pm$ <.01
1981	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	<.01	<.01 $\pm$ <.01
1982	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1983	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1984	<.01 $\pm$ 0.00	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1985	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01

Table D.10. (Cont'd.)

Species Year	Bay system									
	Upper					Lower				
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide	Coastwide	Coastwide
<b>Red drum</b>										
1975	0.03 ± 0.02	0.04 ± 0.02	0.13 ± 0.05	0.06 ± 0.03	0.07 ± 0.06	0.08 ± 0.03	0.04 ± 0.03	0.05 ± 0.02	0.04 ± 0.03	0.05 ± 0.02
1976	0.02 ± 0.01	0.05 ± 0.02	0.15 ± 0.06	0.06 ± 0.02	0.06 ± 0.03	0.02 ± 0.01	0.04 ± 0.01	0.04 ± 0.01	0.04 ± 0.01	0.04 ± 0.01
1977	0.03 ± 0.01	0.02 ± 0.01	0.04 ± 0.01	0.07 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
1978	0.01 ± <0.01	0.04 ± 0.02	0.02 ± 0.01	0.01 ± <0.01	0.02 ± 0.01	0.01 ± <0.01	0.01 ± <0.01	0.02 ± <0.01	0.01 ± <0.01	0.02 ± <0.01
1979	0.01 ± 0.01	0.08 ± 0.04	0.07 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	<0.01 ± <0.01	0.01 ± <0.01	0.02 ± 0.01	0.01 ± <0.01	0.02 ± 0.01
1980	0.01 ± 0.01	0.06 ± 0.30	0.04 ± 0.01	0.03 ± 0.02	0.04 ± 0.02	0.04 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
1981	0.01 ± 0.01	0.03 ± 0.01	0.04 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01
1982	0.02 ± 0.01	0.03 ± 0.02	0.05 ± 0.01	0.04 ± 0.02	0.04 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
1983	0.01 ± <0.01	0.06 ± 0.02	0.10 ± 0.03	0.05 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.06 ± 0.01	0.03 ± 0.01	0.06 ± 0.01	0.03 ± 0.01
1984	0.01 ± <0.01	<0.01 ± <0.01	0.01 ± <0.01	0.04 ± 0.02	0.03 ± 0.01	0.01 ± <0.01	0.05 ± 0.01	0.02 ± <0.01	0.05 ± 0.01	0.02 ± <0.01
1985	0.01 ± 0.01	0.03 ± 0.02	0.02 ± 0.01	0.06 ± 0.02	0.06 ± 0.03	0.03 ± 0.01	0.05 ± 0.01	0.03 ± 0.01	0.05 ± 0.01	0.03 ± 0.01
<b>Sand seatrout</b>										
1975	0.58 ± 0.55	0.08 ± 0.07	0.01 ± <0.01	0.03 ± 0.03	0.40 ± 0.22	0.03 ± 0.01	0.06 ± 0.04	0.26 ± 0.24	0.06 ± 0.04	0.26 ± 0.24
1976	0.52 ± 0.32	0.10 ± 0.07	<0.01 ± <0.01	0.15 ± 0.11	0.30 ± 0.11	0.06 ± 0.04	0.04 ± 0.02	0.25 ± 0.12	0.04 ± 0.02	0.25 ± 0.12
1977	0.13 ± 0.05	0.06 ± 0.02	0.01 ± 0.01	0.04 ± 0.02	0.23 ± 0.08	0.02 ± 0.01	0.10 ± 0.04	0.10 ± 0.03	0.10 ± 0.04	0.10 ± 0.03
1978	0.26 ± 0.15	0.04 ± 0.03	<0.01 ± <0.01	0.01 ± 0.01	0.12 ± 0.05	0.01 ± 0.01	0.01 ± 0.01	0.14 ± 0.07	0.01 ± 0.01	0.14 ± 0.07
1979	0.18 ± 0.05	0.05 ± 0.03	0.03 ± 0.01	<0.01 ± <0.01	0.17 ± 0.08	0.01 ± 0.01	0.01 ± 0.01	0.11 ± 0.03	0.01 ± 0.01	0.11 ± 0.03
1980	0.16 ± 0.07	0.01 ± 0.01	<0.01 ± <0.01	0.07 ± 0.03	0.27 ± 0.16	0.01 ± 0.01	0.03 ± 0.02	0.07 ± 0.02	0.03 ± 0.02	0.07 ± 0.02
1981	0.04 ± 0.02	0.09 ± 0.08	0.02 ± 0.01	0.01 ± <0.01	0.23 ± 0.09	0.01 ± 0.01	0.08 ± 0.04	0.05 ± 0.01	0.08 ± 0.04	0.05 ± 0.01
1982	0.19 ± 0.05	0.05 ± 0.02	0.03 ± 0.01	0.04 ± 0.02	0.25 ± 0.11	0.01 ± 0.01	0.05 ± 0.01	0.11 ± 0.02	0.05 ± 0.01	0.11 ± 0.02
1983	0.06 ± 0.03	0.08 ± 0.04	0.02 ± 0.01	0.02 ± 0.01	0.12 ± 0.07	0.02 ± 0.01	0.03 ± 0.01	0.05 ± 0.01	0.03 ± 0.01	0.05 ± 0.01
1984	0.20 ± 0.07	0.06 ± 0.04	0.01 ± <0.01	0.12 ± 0.06	0.09 ± 0.05	0.05 ± 0.03	0.03 ± 0.01	0.13 ± 0.03	0.03 ± 0.01	0.13 ± 0.03
1985	0.14 ± 0.06	0.05 ± 0.03	0.02 ± 0.01	0.01 ± <0.01	0.02 ± 0.01	0.01 ± 0.01	0.03 ± 0.01	0.06 ± 0.02	0.03 ± 0.01	0.06 ± 0.02
<b>Sheepshead</b>										
1975	<0.01 ± <0.01	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01
1976	0.02 ± 0.01	0.06 ± 0.05	0.01 ± <0.01	0.03 ± 0.02	0.03 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1977	0.07 ± 0.05	0.04 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.05 ± 0.03	0.01 ± 0.01	0.05 ± 0.03
1978	0.02 ± <0.01	0.04 ± 0.02	<0.01 ± <0.01	<0.01 ± <0.01	0.02 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1979	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01
1980	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01
1981	0.01 ± <0.01	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01
1982	0.02 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1983	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01
1984	0.02 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.00	<0.01 ± <0.01	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01
1985	0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.00	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01

Table D.10. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Southern flounder</b>								
1975	0.03 ± 0.03	0.04 ± 0.03	0.04 ± 0.02	0.10 ± 0.07	<0.01 ± <0.01	0.19 ± 0.18	0.01 ± 0.01	0.04 ± 0.02
1976	0.03 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.04 ± 0.03	0.01 ± <0.01	0.01 ± <0.01	0.02 ± <0.01
1977	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1978	0.02 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.07 ± 0.05	<0.01 ± <0.01	0.02 ± 0.01	0.02 ± 0.01
1979	0.02 ± 0.01	0.06 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.06 ± 0.05	0.02 ± 0.01	0.04 ± 0.01	0.03 ± 0.01
1980	0.02 ± 0.01	0.02 ± 0.01	0.06 ± 0.03	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.02 ± 0.01
1981	0.01 ± 0.01	0.01 ± <0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <0.01	0.02 ± <0.01	0.01 ± <0.01
1982	0.06 ± 0.03	0.01 ± 0.01	0.03 ± 0.01	0.06 ± 0.05	0.01 ± 0.01	0.02 ± 0.01	0.05 ± 0.01	0.04 ± 0.01
1983	0.04 ± 0.02	0.05 ± 0.01	0.02 ± 0.01	0.03 ± 0.03	0.02 ± 0.01	0.01 ± <0.01	0.02 ± 0.01	0.03 ± 0.01
1984	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <0.01	<0.01 ± <0.01	0.02 ± <0.01
1985	0.06 ± 0.02	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.05 ± 0.01	0.04 ± 0.01
<b>Spotted seatrout</b>								
1975	0.48 ± 0.35	0.43 ± 0.27	0.79 ± 0.41	0.86 ± 0.58	0.27 ± 0.17	0.32 ± 0.11	0.26 ± 0.14	0.47 ± 0.19
1976	0.10 ± 0.04	0.09 ± 0.04	0.44 ± 0.24	0.52 ± 0.17	0.50 ± 0.23	1.10 ± 0.91	0.44 ± 0.12	0.37 ± 0.13
1977	0.12 ± 0.04	0.30 ± 0.11	0.24 ± 0.09	0.44 ± 0.19	0.46 ± 0.18	0.32 ± 0.14	0.41 ± 0.12	0.21 ± 0.04
1978	0.10 ± 0.03	0.16 ± 0.06	0.10 ± 0.03	0.31 ± 0.13	0.26 ± 0.09	0.14 ± 0.04	0.28 ± 0.12	0.17 ± 0.03
1979	0.10 ± 0.03	0.11 ± 0.05	0.38 ± 0.13	0.47 ± 0.21	0.26 ± 0.08	0.29 ± 0.12	0.41 ± 0.09	0.21 ± 0.03
1980	0.07 ± 0.03	0.10 ± 0.40	0.35 ± 0.17	0.24 ± 0.10	0.23 ± 0.08	0.30 ± 0.07	0.42 ± 0.12	0.20 ± 0.03
1981	0.08 ± 0.03	0.29 ± 0.09	0.30 ± 0.08	0.25 ± 0.07	0.40 ± 0.07	0.22 ± 0.08	0.48 ± 0.10	0.20 ± 0.03
1982	0.14 ± 0.07	0.12 ± 0.04	0.20 ± 0.06	0.21 ± 0.09	0.25 ± 0.08	0.24 ± 0.05	0.41 ± 0.07	0.20 ± 0.03
1983	0.09 ± 0.05	0.17 ± 0.05	0.26 ± 0.10	0.18 ± 0.08	0.17 ± 0.10	0.27 ± 0.07	0.30 ± 0.05	0.17 ± 0.04
1984	0.04 ± 0.01	0.03 ± 0.01	0.04 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± <0.01	0.10 ± 0.04	0.04 ± 0.01
1985	0.06 ± 0.02	0.06 ± 0.02	0.09 ± 0.03	0.07 ± 0.02	0.08 ± 0.03	0.07 ± 0.02	0.14 ± 0.02	0.07 ± 0.01
<b>Other species</b>								
1975	0.02 ± 0.01	0.01 ± <0.01	0.02 ± 0.01	0.01 ± 0.01	0.04 ± 0.02	0.01 ± 0.01	0.01 ± <0.01	0.01 ± <0.01
1976	0.03 ± 0.01	0.02 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01
1977	0.01 ± <0.01	0.05 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.02	0.01 ± <0.01	0.01 ± 0.01
1978	0.03 ± 0.01	0.03 ± 0.01	0.01 ± <0.01	0.01 ± <0.01	0.01 ± 0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.02 ± 0.01
1979	0.07 ± 0.02	0.02 ± 0.01	0.01 ± <0.01	0.01 ± 0.01	0.05 ± 0.02	0.01 ± <0.01	0.01 ± <0.01	0.04 ± 0.01
1980	0.08 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.09 ± 0.05	0.03 ± 0.02	<0.01 ± <0.01	0.04 ± 0.01
1981	0.03 ± 0.01	0.03 ± 0.01	0.01 ± 0.01	0.01 ± <0.01	0.05 ± 0.01	0.01 ± <0.01	0.02 ± 0.01	0.02 ± 0.01
1982	0.04 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.06 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01
1983	0.01	0.03	0.05	0.03	0.04	0.01	0.02	0.02
1984	0.04	0.02	0.03	0.03	<0.01 ± <0.01	0.01	0.02	0.03
1985	0.03	0.02	0.01	0.01	0.02	0.01	0.01	0.02

Table D.10. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>								
1975	1.46 ± 1.06	0.68 ± 0.39	1.03 ± 0.48	1.10 ± 0.68	0.88 ± 0.47	0.89 ± 0.33	0.41 ± 0.23	1.01 ± 0.47
1976	1.32 ± 0.43	0.55 ± 0.24	0.78 ± 0.40	0.84 ± 0.29	1.12 ± 0.38	1.33 ± 0.93	0.58 ± 0.14	1.02 ± 0.21
1977	0.82 ± 0.27	0.67 ± 0.25	0.38 ± 0.12	0.66 ± 0.23	0.87 ± 0.25	0.58 ± 0.19	0.60 ± 0.19	0.73 ± 0.15
1978	0.75 ± 0.21	0.48 ± 0.16	0.19 ± 0.04	0.37 ± 0.14	0.60 ± 0.18	0.43 ± 0.16	0.35 ± 0.15	0.57 ± 0.10
1979	0.80 ± 0.21	0.38 ± 0.13	0.54 ± 0.17	0.62 ± 0.24	0.66 ± 0.20	0.37 ± 0.14	0.50 ± 0.11	0.64 ± 0.10
1980	0.64 ± 0.19	0.35 ± 0.12	0.49 ± 0.19	0.41 ± 0.16	0.85 ± 0.33	0.44 ± 0.09	0.58 ± 0.16	0.52 ± 0.07
1981	0.31 ± 0.11	0.55 ± 0.16	0.42 ± 0.11	0.33 ± 0.09	1.00 ± 0.25	0.32 ± 0.10	0.64 ± 0.13	0.41 ± 0.06
1982	0.62 ± 0.13	0.32 ± 0.08	0.33 ± 0.08	0.42 ± 0.16	0.70 ± 0.18	0.38 ± 0.09	0.58 ± 0.09	0.51 ± 0.06
1983	0.30 ± 0.14	0.46 ± 0.11	0.50 ± 0.17	0.36 ± 0.15	0.42 ± 0.23	0.39 ± 0.08	0.45 ± 0.07	0.38 ± 0.08
1984	0.51 ± 0.13	0.18 ± 0.05	0.15 ± 0.03	0.26 ± 0.10	0.20 ± 0.06	0.10 ± 0.04	0.21 ± 0.06	0.35 ± 0.06
1985	0.47 ± 0.13	0.21 ± 0.07	0.17 ± 0.04	0.19 ± 0.05	0.23 ± 0.09	0.17 ± 0.04	0.30 ± 0.05	0.30 ± 0.04

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.11. Mean catch rates of fishes (No./man-h) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekdays by species and bay system (1974-1985).

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-75	0.29 ± 0.25	0.02 ± 0.02	0.05 ± 0.03	<.01 ± <.01	0.05 ± 0.05	0.18 ± 0.09	0.01 ± 0.01	0.19 ± 0.15
1976	0.66	0.06	<.01	0.02	0.13	0.11	0.03	0.25
1977	0.51	0.07	0.01	0.01	0.11	0.20	0.03	0.31
1978	0.32	0.06	0.01	0.01	0.09	0.31	0.02	0.19
1979	0.01 ± 0.01	0.00	<.01 ± <.01	0.00	0.01 ± 0.01	0.67 ± 0.40	0.00	0.07 ± 0.05
1980	0.22 ± 0.17	0.15 ± 0.13	0.02 ± 0.01	0.01 ± 0.01	0.27 ± 0.27	0.10 ± 0.05	0.03 ± 0.01	0.20 ± 0.11
1981	0.14 ± 0.05	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.12 ± 0.05	0.02 ± 0.01	0.01 ± <.01	0.08 ± 0.02
1982	0.15 ± 0.04	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.12 ± 0.05	0.02 ± 0.01	0.01 ± <.01	0.08 ± 0.02
1983	0.16 ± 0.06	0.02 ± 0.01	0.01 ± <.01	0.09 ± 0.03	0.07 ± 0.03	0.02 ± 0.01	0.01 ± <.01	0.08 ± 0.02
1984	0.19 ± 0.06	0.02 ± 0.01	<.01 ± <.01	0.02 ± 0.01	0.04 ± 0.02	0.01 ± 0.01	0.01 ± <.01	0.09 ± 0.02
1985	0.25 ± 0.08	0.04 ± 0.02	<.01 ± <.01	0.01 ± <.01	0.05 ± 0.02	0.05 ± 0.02	0.03 ± 0.01	0.11 ± 0.03
<b>Black drum</b>								
1974-75	0.00	0.09 ± 0.09	0.01 ± 0.01	0.10 ± 0.10	0.14 ± 0.10	0.02 ± 0.01	0.07 ± 0.06	0.03 ± 0.01
1976	0.10	0.04	0.20	0.02	0.03	0.06	0.01	0.07
1977	0.07	0.08	0.01	0.02	0.02	0.02	0.01	0.05
1978	0.04	0.05	0.02	<.01	0.01	0.01	0.07	0.04
1979	<.01 ± <.01	0.03 ± 0.03	<.01 ± <.01	0.00	0.00	0.00	0.01 ± 0.01	<.01 ± <.01
1980	0.02 ± 0.01	0.03 ± 0.03	0.01 ± <.01	0.02 ± 0.01	0.01 ± <.01	0.02 ± 0.02	0.02 ± 0.01	0.02 ± 0.01
1981	0.05 ± 0.02	0.07 ± 0.02	0.07 ± 0.06	0.04 ± 0.02	0.04 ± 0.02	<.01 ± <.01	0.01 ± <.01	0.04 ± 0.01
1982	0.04 ± 0.02	0.07 ± 0.02	<.01 ± <.01	0.02 ± 0.01	0.03 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.03 ± 0.01
1983	0.03 ± 0.01	0.04 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.02 ± <.01
1984	0.02 ± 0.01	0.04 ± 0.02	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.02 ± <.01
1985	0.03 ± 0.01	0.03 ± 0.02	<.01 ± <.01	<.01 ± <.01	0.02 ± 0.02	0.01 ± 0.01	0.01 ± <.01	0.02 ± 0.01
<b>Gafftopsail catfish</b>								
1974-75	0.02 ± 0.02	0.00	0.01 ± 0.01	0.04 ± 0.04	0.00	0.00	0.00	0.02 ± 0.01
1976	0.02	0.15	0.01	0.01	0.03	0.00	<.01	0.03
1977	<.01	0.08	0.03	<.01	0.01	0.00	0.00	0.01
1978	<.01	0.07	0.02	0.01	0.02	<.01	<.01	0.01
1979	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1980	<.01 ± <.01	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00	0.00
1981	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	0.00	0.00	<.01 ± <.01
1982	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.02 ± 0.01	0.00	0.00	<.01 ± <.01
1983	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	0.00	<.01 ± <.01	<.01 ± <.01
1984	<.01 ± <.00	0.01 ± 0.01	0.03 ± 0.02	0.01 ± <.01	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1985	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.00	0.01 ± <.01

Table D.11. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Red drum</b>								
1974-75	0.05 ± 0.05	0.06 ± 0.06	0.09 ± 0.04	0.02 ± 0.02	0.09 ± 0.09	0.01 ± 0.01	0.14 ± 0.08	0.06 ± 0.04
1976	0.03	0.04	0.11	0.04	0.08	0.02	0.04	0.04
1977	0.04	0.02	0.02	0.05	0.03	0.02	0.04	0.04
1978	0.02	0.03	0.01	0.01	0.03	0.02	0.02	0.02
1979	0.04 ± 0.04	0.00	0.08 ± 0.05	0.00	0.00	0.01 ± 0.01	0.18 ± 0.13	0.04 ± 0.02
1980	0.05 ± 0.02	0.04 ± 0.03	0.08 ± 0.02	0.05 ± 0.02	0.02 ± 0.01	0.05 ± 0.01	0.05 ± 0.03	0.04 ± 0.01
1981	0.02 ± 0.01	0.04 ± 0.02	0.08 ± 0.04	0.03 ± 0.01	0.04 ± 0.01	0.03 ± 0.02	0.02 ± 0.01	0.03 ± 0.01
1982	0.01 ± <.01	0.05 ± 0.01	0.06 ± 0.01	0.06 ± 0.02	0.03 ± 0.01	0.03 ± 0.01	0.04 ± 0.01	0.03 ± <.01
1983	0.03 ± 0.01	0.08 ± 0.03	0.11 ± 0.03	0.07 ± 0.02	0.03 ± 0.01	0.02 ± <.01	0.07 ± 0.02	0.04 ± 0.01
1984	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.03 ± 0.01	0.02 ± 0.01	0.05 ± 0.01	0.02 ± <.01
1985	0.02 ± 0.01	0.04 ± 0.01	0.07 ± 0.03	0.09 ± 0.02	0.04 ± 0.01	0.03 ± 0.01	0.07 ± 0.02	0.04 ± 0.01
<b>Sand seatrout</b>								
1974-75	0.05 ± 0.03	0.30 ± 0.30	0.04 ± 0.04	<.01 ± <.01	0.88 ± 0.57	0.22 ± 0.21	0.00	0.09 ± 0.04
1976	0.85	0.13	<.01	0.25	0.53	0.09	0.05	0.37
1977	0.21	0.09	0.01	0.07	0.38	0.03	0.17	0.17
1978	0.42	0.07	<.01	0.02	0.20	0.01	0.02	0.22
1979	0.24 ± 0.24	0.00	0.03 ± 0.03	0.00	0.26 ± 0.24	0.13 ± 0.11	0.09 ± 0.08	0.19 ± 0.14
1980	0.21 ± 0.10	0.10 ± 0.08	0.01 ± 0.01	0.01 ± <.01	0.83 ± 0.77	0.03 ± 0.02	0.03 ± 0.02	0.31 ± 0.18
1981	0.17 ± 0.07	0.11 ± 0.05	0.01 ± <.01	0.03 ± 0.02	0.17 ± 0.08	0.03 ± 0.03	0.06 ± 0.02	0.12 ± 0.03
1982	0.19 ± 0.06	0.08 ± 0.03	0.02 ± 0.01	0.05 ± 0.02	0.41 ± 0.13	0.02 ± 0.01	0.02 ± 0.01	0.12 ± 0.03
1983	0.16 ± 0.11	0.05 ± 0.02	0.01 ± 0.01	0.12 ± 0.06	0.16 ± 0.08	0.01 ± <.01	0.02 ± <.01	0.10 ± 0.04
1984	0.30 ± 0.15	0.01 ± <.01	0.03 ± 0.02	0.06 ± 0.03	0.07 ± 0.04	0.01 ± 0.01	0.04 ± 0.02	0.14 ± 0.06
1985	0.08 ± 0.03	0.08 ± 0.03	0.03 ± 0.01	0.10 ± 0.04	0.09 ± 0.04	0.01 ± <.01	0.04 ± 0.01	0.07 ± 0.01
<b>Sheepshead</b>								
1974-75	0.01 ± 0.01	0.04 ± 0.04	0.01 ± <.01	0.00	0.02 ± 0.02	0.02 ± 0.02	0.00	0.01 ± <.01
1976	0.03	0.09	0.01	0.04	0.04	0.01	0.02	0.03
1977	0.12	0.07	0.02	0.03	0.03	0.01	0.01	0.08
1978	0.02	0.06	<.01	0.01	0.03	<.01	0.01	0.02
1979	0.03 ± 0.03	0.03 ± 0.03	0.03 ± 0.03	0.00	0.00	0.00	0.14 ± 0.11	0.03 ± 0.02
1980	0.02 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.03 ± 0.02	0.03 ± 0.01	0.01 ± <.01	0.04 ± 0.03	0.02 ± 0.01
1981	0.04 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.05 ± 0.02	0.03 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.03 ± 0.01
1982	0.03 ± 0.01	0.07 ± 0.06	0.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.01 ± 0.01	0.03 ± 0.01
1983	0.03 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.02 ± <.01
1984	0.03 ± 0.02	0.04 ± 0.03	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	0.00	0.01 ± <.01	0.02 ± 0.01
1985	0.01 ± 0.01	0.01 ± 0.01	0.04 ± 0.03	0.01 ± <.01	0.01 ± <.01	0.00	0.01 ± <.01	0.01 ± <.01

Table D.11. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Southern flounder</b>								
1974-75	0.02 ± 0.02	0.01 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.00	0.05 ± 0.03	0.00	0.02 ± 0.01
1976	0.04	0.03	0.04	0.03	0.04	0.01	0.01	0.03
1977	0.02	0.04	0.04	0.05	0.02	0.02	0.02	0.03
1978	0.02	0.04	0.02	0.02	0.08	<.01	0.02	0.03
1979	0.33 ± 0.33	0.00	0.08 ± 0.04	0.00	0.00	0.08 ± 0.03	0.05 ± 0.05	0.18 ± 0.15
1980	0.03 ± 0.01	0.04 ± 0.03	0.04 ± 0.02	0.05 ± 0.04	0.12 ± 0.09	0.01 ± 0.01	0.03 ± 0.02	0.05 ± 0.02
1981	0.02 ± 0.01	0.06 ± 0.05	0.02 ± 0.01	0.04 ± 0.02	0.15 ± 0.08	0.02 ± 0.01	0.05 ± 0.02	0.04 ± 0.01
1982	0.06 ± 0.02	0.03 ± 0.02	0.02 ± <.01	0.03 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.07 ± 0.02	0.04 ± 0.01
1983	0.06 ± 0.02	0.03 ± 0.01	0.01 ± <.01	0.03 ± 0.01	0.04 ± 0.02	0.01 ± <.01	0.03 ± 0.01	0.04 ± 0.01
1984	0.04 ± 0.01	0.06 ± 0.02	0.01 ± <.01	0.04 ± 0.02	0.08 ± 0.03	0.01 ± 0.01	<.01 ± <.01	0.04 ± 0.01
1985	0.04 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.05 ± 0.02	0.03 ± 0.01	0.03 ± 0.01	0.07 ± 0.02	0.04 ± 0.01
<b>Spotted seatrout</b>								
1974-75	0.15 ± 0.09	0.48 ± 0.48	0.68 ± 0.31	3.19 ± 2.33	0.43 ± 0.43	0.54 ± 0.29	0.45 ± 0.24	0.49 ± 0.21
1976	0.22	0.09	0.45	1.44	1.22	1.14	0.72	0.62
1977	0.26	0.31	0.25	1.23	1.27	0.33	0.69	0.43
1978	0.34	0.16	0.11	0.87	0.71	0.14	0.47	0.36
1979	0.03 ± 0.03	0.10 ± 0.10	1.18 ± 0.80	1.15 ± 1.15	0.04 ± 0.04	0.17 ± 0.14	0.69 ± 0.51	0.17 ± 0.09
1980	0.58 ± 0.32	0.18 ± 0.13	0.37 ± 0.11	0.54 ± 0.21	0.13 ± 0.07	0.36 ± 0.11	0.53 ± 0.30	0.42 ± 0.17
1981	0.36 ± 0.13	0.37 ± 0.12	0.45 ± 0.10	0.52 ± 0.19	0.44 ± 0.15	0.25 ± 0.10	0.52 ± 0.10	0.38 ± 0.07
1982	0.19 ± 0.05	0.37 ± 0.09	0.35 ± 0.09	0.32 ± 0.09	0.43 ± 0.13	0.35 ± 0.08	0.59 ± 0.10	0.31 ± 0.03
1983	0.21 ± 0.06	0.32 ± 0.10	0.43 ± 0.16	0.30 ± 0.10	0.23 ± 0.10	0.29 ± 0.07	0.48 ± 0.10	0.29 ± 0.04
1984	0.11 ± 0.02	0.04 ± 0.01	0.02 ± 0.01	0.05 ± 0.02	0.05 ± 0.03	0.04 ± 0.03	0.21 ± 0.04	0.09 ± 0.01
1985	0.16 ± 0.05	0.14 ± 0.04	0.14 ± 0.07	0.08 ± 0.02	0.14 ± 0.04	0.12 ± 0.05	0.22 ± 0.04	0.14 ± 0.02
<b>Other species</b>								
1974-75	<.01 ± <.01	0.04 ± 0.04	0.03 ± 0.02	0.02 ± 0.01	0.16 ± 0.12	0.04 ± 0.03	0.10 ± 0.09	0.03 ± 0.01
1976	0.05	0.01	0.01	0.01	0.06	0.01	0.02	0.03
1977	0.02	0.03	0.01	0.01	0.02	0.02	0.01	0.02
1978	0.05	0.02	0.01	<.01	0.01	<.01	0.01	0.03
1979	0.03 ± 0.03	0.00	0.03 ± 0.02	0.00	0.04 ± 0.04	0.33 ± 0.31	0.04 ± 0.04	0.06 ± 0.04
1980	0.03 ± 0.01	0.03 ± 0.03	0.01 ± 0.01	<.01 ± <.01	0.11 ± 0.08	0.02 ± 0.01	<.01 ± <.01	0.04 ± 0.02
1981	0.04 ± 0.02	0.02 ± 0.01	0.02 ± 0.02	0.02 ± 0.01	0.06 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.03 ± 0.01
1982	0.06 ± 0.02	0.02 ± 0.01	0.01 ± <.01	0.03 ± 0.01	0.11 ± 0.04	0.01 ± <.01	0.01 ± <.01	0.04 ± 0.01
1983	0.04	0.01 ± <.01	0.03	0.11	0.03	0.01	0.01	0.04
1984	0.03	0.02	0.02	0.03	0.03	<.01 ± <.01	0.02	0.02
1985	0.04	0.04	0.02	0.03	0.03	0.01	0.01	0.03

Table D.11. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>								
1974-75	0.59 ± 0.40	1.05 ± 1.05	0.95 ± 0.39	3.40 ± 2.39	1.77 ± 1.13	1.06 ± 0.53	0.77 ± 0.23	0.94 ± 0.36
1976	1.99	0.63	0.84	1.87	2.17	1.45	0.91	1.47
1977	1.25	0.78	0.41	1.48	1.89	0.65	0.98	1.13
1978	1.24	0.56	0.20	0.94	1.20	0.50	0.63	0.93
1979	0.70 ± 0.69	0.16 ± 0.16	1.43 ± 0.80	1.15 ± 1.15	0.35 ± 0.33	1.39 ± 0.74	1.21 ± 0.87	0.75 ± 0.45
1980	1.16 ± 0.51	0.57 ± 0.44	0.55 ± 0.15	0.71 ± 0.24	1.51 ± 1.25	0.60 ± 0.17	0.73 ± 0.40	1.10 ± 0.39
1981	0.83 ± 0.26	0.72 ± 0.22	0.68 ± 0.16	0.74 ± 0.23	1.05 ± 0.33	0.36 ± 0.14	0.68 ± 0.12	0.73 ± 0.13
1982	0.74 ± 0.17	0.73 ± 0.18	0.50 ± 0.12	0.53 ± 0.14	1.19 ± 0.28	0.46 ± 0.10	0.76 ± 0.13	0.69 ± 0.08
1983	0.71 ± 0.19	0.58 ± 0.14	0.63 ± 0.19	0.76 ± 0.18	0.60 ± 0.22	0.37 ± 0.08	0.64 ± 0.12	0.61 ± 0.08
1984	0.74 ± 0.20	0.28 ± 0.08	0.14 ± 0.04	0.26 ± 0.08	0.33 ± 0.10	0.09 ± 0.04	0.34 ± 0.06	0.46 ± 0.08
1985	0.65 ± 0.14	0.44 ± 0.10	0.31 ± 0.10	0.42 ± 0.08	0.41 ± 0.12	0.27 ± 0.07	0.45 ± 0.08	0.49 ± 0.05

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.



Table D.12. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay system (1974-1986).

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-76	0.22 $\pm$ 0.15	0.02 $\pm$ 0.02	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.11 $\pm$ 0.09	0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	0.10 $\pm$ 0.05
1976-77	0.03 $\pm$ 0.03	0.05 $\pm$ 0.05	0.01 $\pm$ 0.01	0.00	0.02 $\pm$ 0.02	0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	0.02 $\pm$ 0.01
1977-78	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.00	0.02 $\pm$ 0.02	0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01
1978-79	0.01 $\pm$ 0.01	0.00	0.00	0.00	0.00	<0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01
1979-80	0.05 $\pm$ 0.05	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.06 $\pm$ 0.05	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.03 $\pm$ 0.02
1980-81	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01	0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01
1981-82	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.00	0.00	0.01 $\pm$ <0.01	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	0.01 $\pm$ <0.01
1982-83	0.02 $\pm$ 0.01	0.04 $\pm$ 0.03	<0.01 $\pm$ <0.01	0.00	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
1983-84	<0.01 $\pm$ <0.01	0.00	0.00	0.74 $\pm$ 0.74	0.00	0.00	0.00	0.03 $\pm$ 0.02
1984-85	0.04 $\pm$ 0.03	0.01 $\pm$ 0.01	0.00	0.00	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
1985-86	<0.01 $\pm$ <0.01	0.03 $\pm$ 0.03	0.00	<0.01 $\pm$ <0.01	0.00	<0.01 $\pm$ <0.01	0.00	<0.01 $\pm$ <0.01
<b>Black drum</b>								
1974-76	0.03 $\pm$ 0.02	0.03 $\pm$ 0.03	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	0.03 $\pm$ 0.01
1976-77	0.01 $\pm$ <0.01	0.04 $\pm$ 0.03	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ <0.01	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01
1977-78	0.03 $\pm$ 0.01	0.02 $\pm$ 0.01	0.05 $\pm$ 0.03	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.01	0.03 $\pm$ 0.01
1978-79	0.10 $\pm$ 0.08	<0.01 $\pm$ <0.01	0.03 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.03 $\pm$ 0.01	0.03 $\pm$ 0.01	0.05 $\pm$ 0.03
1979-80	<0.01 $\pm$ <0.01	0.06 $\pm$ 0.06	0.02 $\pm$ 0.01	0.00	0.03 $\pm$ 0.02	0.01 $\pm$ <0.01	0.03 $\pm$ 0.01	0.02 $\pm$ 0.01
1980-81	0.10 $\pm$ 0.09	0.09 $\pm$ 0.09	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.02 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	0.05 $\pm$ 0.03
1981-82	0.01 $\pm$ <0.01	0.05 $\pm$ 0.03	0.05 $\pm$ 0.04	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	0.04 $\pm$ 0.03	0.03 $\pm$ 0.02	0.02 $\pm$ 0.01
1982-83	0.03 $\pm$ 0.03	0.02 $\pm$ 0.01	0.03 $\pm$ 0.02	<0.01 $\pm$ <0.01	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.03 $\pm$ 0.01	0.02 $\pm$ 0.01
1983-84	0.03 $\pm$ 0.02	0.03 $\pm$ 0.02	0.02 $\pm$ 0.01	0.03 $\pm$ 0.03	0.03 $\pm$ 0.03	<0.01 $\pm$ <0.01	0.04 $\pm$ 0.03	0.03 $\pm$ 0.01
1984-85	<0.01 $\pm$ <0.01	0.02 $\pm$ 0.01	0.04 $\pm$ 0.02	0.00	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01
1985-86	0.01 $\pm$ 0.01	0.02 $\pm$ 0.02	0.02 $\pm$ 0.02	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01
<b>Gafftopsail catfish</b>								
1974-76	<0.01 $\pm$ <0.01	0.03 $\pm$ 0.03	0.03 $\pm$ 0.01	0.00	0.06 $\pm$ 0.06	0.00	0.00	0.01 $\pm$ <0.01
1976-77	0.02 $\pm$ 0.02	0.01 $\pm$ 0.01	0.04 $\pm$ 0.03	<0.01 $\pm$ <0.01	0.03 $\pm$ 0.02	0.00	0.00	0.01 $\pm$ <0.01
1977-78	0.01 $\pm$ <0.01	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.00	0.00	0.01 $\pm$ <0.01
1978-79	0.05 $\pm$ 0.04	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.04 $\pm$ 0.03	0.02 $\pm$ 0.01	0.00	0.00	0.03 $\pm$ 0.01
1979-80	0.00	0.00	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.00	0.00	<0.01 $\pm$ <0.01
1980-81	0.00	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.00	0.00	<0.01 $\pm$ <0.01
1981-82	0.00	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	<0.01 $\pm$ <0.01	0.00	<0.01 $\pm$ <0.01
1982-83	<0.01 $\pm$ <0.01	0.00	0.03 $\pm$ 0.03	<0.01 $\pm$ <0.01	0.02 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ <0.01
1983-84	0.00	0.00	0.02 $\pm$ 0.02	0.00	<0.01 $\pm$ <0.01	0.00	0.00	<0.01 $\pm$ <0.01
1984-85	<0.01 $\pm$ <0.01	0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.00	<0.01 $\pm$ <0.01	0.00	0.00	<0.01 $\pm$ <0.01
1985-86	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	<0.01 $\pm$ <0.01

Table D.12. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Red drum</b>								
1974-76	0.03 ± 0.02	0.12 ± 0.09	0.11 ± 0.05	0.03 ± 0.02	0.04 ± 0.03	0.03 ± 0.01	0.03 ± 0.02	0.04 ± 0.01
1976-77	0.01 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.03 ± 0.02	0.01 ± 0.01	0.02 ± 0.01
1977-78	0.01 ± 0.01	0.03 ± 0.04	0.13 ± 0.04	0.09 ± 0.05	0.01 ± <.01	0.01 ± <.01	0.03 ± 0.01	0.03 ± 0.01
1978-79	0.01 ± <.01	0.05 ± 0.02	0.38 ± 0.19	0.04 ± 0.02	0.01 ± <.01	<.01 ± <.01	0.02 ± 0.01	0.04 ± 0.01
1979-80	<.01 ± <.01	0.09 ± 0.06	0.11 ± 0.09	0.13 ± 0.10	0.06 ± 0.04	0.06 ± 0.03	0.05 ± 0.03	0.05 ± 0.01
1980-81	0.02 ± 0.01	0.03 ± 0.02	0.05 ± 0.04	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1981-82	<.01 ± <.01	0.10 ± 0.09	0.24 ± 0.15	0.10 ± 0.07	0.01 ± 0.01	0.03 ± 0.01	0.04 ± 0.02	0.04 ± 0.01
1982-83	0.01 ± 0.01	0.06 ± 0.04	0.06 ± 0.03	0.11 ± 0.10	<.01 ± <.01	0.03 ± 0.01	0.04 ± 0.01	0.03 ± 0.01
1983-84	0.01 ± <.01	0.05 ± 0.04	0.18 ± 0.14	0.07 ± 0.07	<.01 ± <.01	<.01 ± <.01	0.06 ± 0.03	0.03 ± 0.01
1984-85	<.01 ± <.01	0.03 ± 0.02	0.13 ± 0.10	0.02 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1985-86	<.01 ± <.01	0.01 ± <.01	0.02 ± 0.02	0.02 ± 0.01	0.02 ± 0.02	0.01 ± <.01	0.02 ± 0.01	0.01 ± <.01
<b>Sand seatrout</b>								
1974-76	0.11 ± 0.08	<.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	0.16 ± 0.08	0.01 ± 0.01	0.01 ± 0.01	0.06 ± 0.03
1976-77	0.01 ± 0.01	<.01 ± <.01	0.00	0.00	0.46 ± 0.34	<.01 ± <.01	<.01 ± <.01	0.04 ± 0.03
1977-78	0.08 ± 0.07	0.03 ± 0.03	0.01 ± 0.01	0.01 ± 0.01	0.06 ± 0.05	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.02
1978-79	0.31 ± 0.31	0.00	0.00	0.07 ± 0.05	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.12 ± 0.11
1979-80	0.07 ± 0.04	<.01 ± <.01	0.00	<.01 ± <.01	0.04 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.01
1980-81	<.01 ± <.01	0.00	0.00	0.00	0.15 ± 0.11	<.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01
1981-82	0.00	0.02 ± 0.02	<.01 ± <.01	0.09 ± 0.09	0.10 ± 0.06	<.01 ± <.01	0.03 ± 0.02	0.02 ± 0.01
1982-83	0.00	0.00	<.01 ± <.01	0.02 ± 0.02	0.04 ± 0.03	<.01 ± <.01	<.01 ± <.01	0.01 ± 0.01
1983-84	0.12 ± 0.12	0.00	<.01 ± <.01	0.07 ± 0.07	0.00	0.00	0.00	0.06 ± 0.06
1984-85	<.01 ± <.01	0.01 ± 0.01	0.02 ± 0.02	0.00	0.00	0.01 ± 0.01	0.08 ± 0.06	0.02 ± 0.01
1985-86	0.01 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.20 ± 0.15	<.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.01
<b>Sheepshead</b>								
1974-76	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.01	0.10 ± 0.10	0.05 ± 0.04	0.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01
1976-77	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.02 ± 0.02	0.02 ± 0.02	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01
1977-78	0.03 ± 0.01	0.03 ± 0.20	0.03 ± 0.02	0.06 ± 0.03	0.01 ± 0.01	0.01 ± 0.01	0.04 ± 0.02	0.03 ± 0.01
1978-79	0.01 ± 0.01	0.05 ± 0.03	0.02 ± 0.01	0.04 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	0.11 ± 0.08	0.03 ± 0.01
1979-80	<.01 ± <.01	0.03 ± 0.02	<.01 ± <.01	0.00	0.04 ± 0.03	<.01 ± <.01	0.12 ± 0.09	0.03 ± 0.01
1980-81	0.01 ± 0.00	0.13 ± 0.12	0.01 ± <.01	<.01 ± <.01	0.24 ± 0.22	0.01 ± 0.01	0.03 ± 0.02	0.04 ± 0.02
1981-82	<.01 ± <.01	0.19 ± 0.15	0.07 ± 0.07	0.21 ± 0.18	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.05 ± 0.02
1982-83	0.05 ± 0.05	0.01 ± 0.01	0.05 ± 0.03	0.02 ± 0.01	0.17 ± 0.16	0.02 ± 0.01	0.02 ± 0.01	0.07 ± 0.04
1983-84	0.01 ± <.01	0.07 ± 0.07	0.01 ± 0.01	0.02 ± 0.02	<.01 ± <.01	0.01 ± <.01	0.02 ± 0.02	0.02 ± 0.01
1984-85	<.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.02	<.01 ± <.01	0.06 ± 0.06	0.06 ± 0.04	0.02 ± 0.01
1985-86	<.01 ± <.01	0.01 ± <.01	0.05 ± 0.04	0.04 ± 0.03	0.01 ± 0.01	<.01 ± <.01	0.00	0.01 ± <.01

Table D.12. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Southern flounder</b>								
1974-76	0.01 ± 0.01	0.07 ± 0.06	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.05 ± 0.03	0.01 ± <0.01	0.03 ± 0.01
1976-77	0.01 ± 0.01	0.11 ± 0.11	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.00	0.01 ± <0.01	0.02 ± 0.01
1977-78	0.02 ± 0.01	0.04 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± <0.01	0.01 ± 0.01	0.02 ± <0.01
1978-79	0.01 ± 0.01	0.05 ± 0.05	<0.01 ± <0.01	0.05 ± 0.04	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1979-80	0.01 ± <0.01	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± <0.01
1980-81	0.01 ± 0.01	0.02 ± 0.01	<0.01 ± <0.01	0.08 ± 0.07	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1981-82	0.03 ± 0.02	0.01 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.02 ± 0.01
1982-83	0.12 ± 0.12	0.03 ± 0.02	<0.01 ± <0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.02
1983-84	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.01 ± 0.01	<0.01 ± <0.01	0.00	<0.01 ± <0.01	<0.01 ± <0.01
1984-85	0.07 ± 0.07	0.02 ± 0.01	<0.01 ± <0.01	0.02 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01
1985-86	0.01 ± <0.01	0.02 ± 0.02	0.05 ± 0.04	0.02 ± 0.01	0.03 ± 0.02	0.02 ± 0.01	0.17 ± 0.14	0.03 ± 0.02
<b>Spotted seatrout</b>								
1974-76	0.03 ± 0.02	0.19 ± 0.15	1.02 ± 0.54	0.47 ± 0.27	0.30 ± 0.14	0.37 ± 0.21	0.22 ± 0.12	0.23 ± 0.06
1976-77	0.15 ± 0.10	0.08 ± 0.06	0.02 ± 0.02	0.16 ± 0.10	0.07 ± 0.05	0.17 ± 0.10	0.54 ± 0.41	0.24 ± 0.11
1977-78	0.01 ± 0.01	0.12 ± 0.08	0.10 ± 0.05	0.12 ± 0.06	0.15 ± 0.08	0.18 ± 0.08	0.14 ± 0.06	0.10 ± 0.02
1978-79	0.02 ± 0.02	0.21 ± 0.21	0.03 ± 0.01	0.20 ± 0.10	0.05 ± 0.03	0.17 ± 0.08	0.17 ± 0.08	0.20 ± 0.05
1979-80	0.09 ± 0.09	0.13 ± 0.10	0.06 ± 0.04	0.50 ± 0.36	0.15 ± 0.07	0.41 ± 0.15	0.33 ± 0.13	0.13 ± 0.05
1980-81	0.02 ± 0.01	0.06 ± 0.04	0.09 ± 0.05	0.21 ± 0.13	0.14 ± 0.07	0.37 ± 0.28	0.13 ± 0.10	0.19 ± 0.05
1981-82	0.04 ± 0.03	0.26 ± 0.21	0.27 ± 0.21	0.28 ± 0.24	0.28 ± 0.15	0.30 ± 0.15	0.38 ± 0.17	0.13 ± 0.03
1982-83	0.01 ± 0.01	0.07 ± 0.06	0.08 ± 0.05	0.09 ± 0.06	0.07 ± 0.05	0.21 ± 0.10	0.28 ± 0.08	0.11 ± 0.07
1983-84	0.05 ± 0.04	0.32 ± 0.30	0.18 ± 0.13	0.03 ± 0.03	<0.01 ± <0.01	0.07 ± 0.07	0.09 ± 0.06	0.09 ± 0.03
1984-85	0.03 ± 0.03	0.14 ± 0.10	0.03 ± 0.02	0.04 ± 0.02	0.11 ± 0.06	0.06 ± 0.04	0.14 ± 0.06	0.07 ± 0.03
1985-86	0.01 ± 0.01	0.07 ± 0.05	0.27 ± 0.14	0.13 ± 0.08	0.14 ± 0.08	0.09 ± 0.05	0.13 ± 0.06	0.07 ± 0.03
<b>Other species</b>								
1974-76	0.13 ± 0.10	0.10 ± <0.01	0.01 ± 0.01	0.01 ± 0.01	0.07 ± 0.05	0.00	0.01 ± 0.01	0.06 ± 0.03
1976-77	<0.01 ± <0.01	0.02 ± 0.02	0.02 ± 0.02	<0.01 ± <0.01	0.02 ± 0.01	0.00	0.05 ± 0.04	0.02 ± 0.01
1977-78	0.12 ± 0.11	0.01 ± 0.01	0.03 ± 0.01	0.02 ± 0.01	0.03 ± 0.02	0.00	0.01 ± 0.01	0.04 ± 0.03
1978-79	0.03 ± 0.02	<0.01 ± <0.01	0.01 ± <0.01	0.03 ± 0.02	0.07 ± 0.05	0.00	<0.01 ± <0.01	0.02 ± 0.01
1979-80	0.02 ± 0.02	0.03 ± 0.03	0.01 ± 0.01	0.00	0.02 ± 0.01	<0.01 ± <0.01	0.01 ± 0.01	0.02 ± 0.01
1980-81	0.03 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.03	0.04 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1981-82	0.13 ± 0.10	<0.01 ± <0.01	<0.01 ± <0.01	0.06 ± 0.04	0.03 ± 0.02	0.01 ± <0.01	<0.01 ± <0.01	0.06 ± 0.04
1982-83	0.04 ± 0.03	0.00	0.02 ± 0.01	0.01 ± 0.01	0.12 ± 0.06	0.01 ± 0.01	<0.01 ± <0.01	0.04 ± 0.02
1983-84	0.04 ± 0.03	0.04 ± 0.03	0.02 ± 0.02	0.41 ± 0.41	0.01	0.04	<0.01	0.05
1984-85	<0.01 ± <0.01	0.06	0.01 ± 0.01	0.01 ± 0.01	0.01	0.01	0.09	0.03
1985-86	<0.01	0.07	0.21	0.01	0.00	0.02	0.00	0.02

Table D.12. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
All species combined <sup>a</sup>										
1974-76	0.58 ± 0.27	0.50 ± 0.38	1.23 ± 0.56	0.65 ± 0.33	0.82 ± 0.31	0.49 ± 0.27	0.31 ± 0.17	0.56 ± 0.14		
1976-77	0.26 ± 0.17	0.38 ± 0.28	0.15 ± 0.10	0.23 ± 0.12	0.66 ± 0.40	0.23 ± 0.12	0.63 ± 0.47	0.40 ± 0.15		
1977-78	0.33 ± 0.17	0.32 ± 0.20	0.36 ± 0.10	0.33 ± 0.14	0.34 ± 0.14	0.25 ± 0.10	0.28 ± 0.10	0.31 ± 0.06		
1978-79	0.58 ± 0.41	0.37 ± 0.27	0.47 ± 0.20	0.46 ± 0.19	0.19 ± 0.09	0.25 ± 0.10	0.36 ± 0.14	0.42 ± 0.16		
1979-80	0.25 ± 0.14	0.41 ± 0.19	0.23 ± 0.14	0.66 ± 0.40	0.44 ± 0.20	0.52 ± 0.19	0.57 ± 0.22	0.40 ± 0.08		
1980-81	0.19 ± 0.13	0.34 ± 0.27	0.18 ± 0.10	0.34 ± 0.16	0.62 ± 0.31	0.43 ± 0.33	0.23 ± 0.14	0.30 ± 0.09		
1981-82	0.21 ± 0.14	0.64 ± 0.34	0.64 ± 0.37	0.79 ± 0.41	0.48 ± 0.20	0.45 ± 0.20	0.54 ± 0.23	0.41 ± 0.10		
1982-83	0.28 ± 0.19	0.23 ± 0.13	0.29 ± 0.11	0.27 ± 0.17	0.46 ± 0.26	0.28 ± 0.14	0.41 ± 0.10	0.34 ± 0.09		
1983-84	0.27 ± 0.19	0.52 ± 0.36	0.44 ± 0.30	1.37 ± 1.28	0.04 ± 0.03	0.11 ± 0.08	0.22 ± 0.12	0.34 ± 0.13		
1984-85	0.16 ± 0.12	0.30 ± 0.15	0.26 ± 0.12	0.11 ± 0.07	0.16 ± 0.08	0.13 ± 0.07	0.41 ± 0.15	0.23 ± 0.05		
1985-86	0.06 ± 0.04	0.24 ± 0.13	0.64 ± 0.37	0.44 ± 0.21	0.21 ± 0.13	0.15 ± 0.07	0.35 ± 0.18	0.17 ± 0.06		

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.13. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekdays by species and bay system (1974-1986).

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-76	0.07 $\pm$ 0.07	0.00	<.01 $\pm$ <.01	0.00	0.02 $\pm$ 0.02	0.85 $\pm$ 0.85	0.01 $\pm$ 0.01	0.10 $\pm$ 0.08
1976-77	0.04	0.06	0.01	0.00	0.03	0.02	0.01	0.02
1977-78	0.02	0.01	<.01	0.00	0.03	0.02	<.01	0.01
1978-79	0.02	0.00	0.00	0.00	0.00	<.01	<.01	0.01
1979-80	0.01 $\pm$ 0.01	0.05 $\pm$ 0.05	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.02	0.00	0.00	0.01 $\pm$ 0.01
1980-81	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.04 $\pm$ 0.04	0.01 $\pm$ 0.01
1981-82	0.01 $\pm$ 0.01	0.00	0.00	0.00	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.01 $\pm$ <.10
1982-83	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.03 $\pm$ 0.03	0.06 $\pm$ 0.04	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01
1983-84	<.01 $\pm$ <.01	0.00	0.00	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1984-85	0.05 $\pm$ 0.04	0.00	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01	0.01 $\pm$ 0.01
1985-86	0.00	<.01 $\pm$ <.01	0.00	0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
<b>Black drum</b>								
1974-76	0.01 $\pm$ 0.01	0.00	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.04 $\pm$ 0.03	0.00	0.04 $\pm$ 0.03	0.02 $\pm$ 0.01
1976-77	0.01	0.07	0.05	0.02	0.03	0.02	0.03	0.03
1977-78	0.05	0.03	0.08	0.03	0.07	0.04	0.06	0.05
1978-79	0.17	0.01	0.05	0.01	0.01	0.05	0.05	0.08
1979-80	0.01 $\pm$ 0.01	0.04 $\pm$ 0.03	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.07 $\pm$ 0.07	0.00	0.02 $\pm$ 0.01
1980-81	0.09 $\pm$ 0.09	0.16 $\pm$ 0.13	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.05 $\pm$ 0.03
1981-82	0.18 $\pm$ 0.15	0.07 $\pm$ 0.05	0.16 $\pm$ 0.13	0.08 $\pm$ 0.05	0.02 $\pm$ 0.02	0.03 $\pm$ 0.03	0.04 $\pm$ 0.02	0.08 $\pm$ 0.04
1982-83	0.33 $\pm$ 0.29	0.21 $\pm$ 0.13	0.07 $\pm$ 0.03	0.05 $\pm$ 0.03	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.02	0.12 $\pm$ 0.07
1983-84	<.01 $\pm$ <.01	0.05 $\pm$ 0.04	0.01 $\pm$ 0.01	0.06 $\pm$ 0.05	0.05 $\pm$ 0.04	0.05 $\pm$ 0.04	0.03 $\pm$ 0.02	0.02 $\pm$ 0.01
1984-85	0.02 $\pm$ 0.02	0.06 $\pm$ 0.04	0.04 $\pm$ 0.04	0.08 $\pm$ 0.07	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.03 $\pm$ 0.02	0.03 $\pm$ 0.01
1985-86	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01	0.05 $\pm$ 0.04	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01
<b>Gafftopsail catfish</b>								
1974-76	<.01 $\pm$ <.01	0.36 $\pm$ 0.36	<.01 $\pm$ <.01	0.04 $\pm$ 0.04	0.00	0.00	0.00	0.02 $\pm$ 0.02
1976-77	0.04	0.02	0.07	0.01	0.05	0.00	0.00	0.02
1977-78	0.01	0.05	0.01	0.02	<.01	0.00	0.00	0.01
1978-79	0.09	0.01	0.02	0.07	0.03	0.00	0.00	0.05
1979-80	0.00	0.00	0.01 $\pm$ 0.01	0.00	0.06 $\pm$ 0.06	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
1980-81	0.05 $\pm$ 0.04	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01	0.00	0.00	0.02 $\pm$ 0.01
1981-82	0.00	0.06 $\pm$ 0.06	0.00	0.02	0.19 $\pm$ 0.19	<.01 $\pm$ <.01	0.00	0.04 $\pm$ 0.03
1982-83	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.03 $\pm$ 0.02	0.02 $\pm$ 0.02	0.02 $\pm$ 0.02	0.00	0.00	0.01 $\pm$ <.01
1983-84	0.00	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ 0.01	0.00	0.00	0.00	<.01 $\pm$ <.01
1984-85	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86	0.00	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ 0.00

Table D.13. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
<b>Red drum</b>								
1974-76	0.04 ± 0.02	0.04 ± 0.04	0.14 ± 0.07	0.05 ± 0.03	0.06 ± 0.04	0.01 ± 0.01	0.02 ± 0.02	0.04 ± 0.01
1976-77	0.01	0.03	0.01	0.02	0.01	0.04	0.02	0.02
1977-78	0.02	0.03	0.09	0.07	0.02	0.01	0.04	0.03
1978-79	0.01	0.04	0.28	0.03	0.01	<.01	0.03	0.03
1979-80	0.01 ± 0.01	0.03 ± 0.03	0.14 ± 0.09	0.22 ± 0.21	0.03 ± 0.02	0.05 ± 0.03	0.03 ± 0.03	0.03 ± 0.01
1980-81	0.01 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.00	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1981-82	0.06 ± 0.04	0.01 ± 0.01	0.09 ± 0.05	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.03 ± 0.01
1982-83	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.02	0.05 ± 0.00	0.01 ± <.01	0.01 ± <.01	0.07 ± 0.03	0.03 ± 0.01
1983-84	0.01 ± 0.01	0.14 ± 0.11	0.04 ± 0.03	0.06 ± 0.05	0.08 ± 0.06	0.02 ± 0.01	0.03 ± 0.02	0.03 ± 0.02
1984-85	0.06 ± 0.04	0.03 ± 0.02	0.26 ± 0.12	0.03 ± 0.02	0.06 ± 0.06	<.01 ± <.01	0.04 ± 0.03	0.04 ± 0.02
1985-86	0.01 ± <.01	0.04 ± 0.02	0.06 ± 0.04	0.02 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.05 ± 0.02	0.03 ± 0.01
<b>Sand seatrout</b>								
1974-76	0.46 ± 0.45	0.07 ± 0.07	0.08 ± 0.08	0.06 ± 0.06	0.09 ± 0.06	0.01 ± 0.01	0.00	0.20 ± 0.18
1976-77	0.02	<.01	0.00	0.00	0.76	0.00	<.01	0.06
1977-78	0.13	0.05	0.01	0.02	0.10	0.00	0.02	0.06
1978-79	0.51	0.00	0.00	0.12	0.03	0.02	0.02	0.20
1979-80	0.01 ± 0.01	0.00	0.00	0.00	0.10 ± 0.10	<.01 ± <.01	0.00	0.01 ± 0.01
1980-81	0.03 ± 0.02	0.00	0.00	0.00	0.04 ± 0.04	0.00	0.04 ± 0.01	0.02 ± 0.01
1981-82	0.03 ± 0.02	0.05 ± 0.05	<.01 ± <.01	0.01 ± 0.01	0.14 ± 0.10	0.01 ± 0.01	0.04 ± 0.02	0.04 ± 0.02
1982-83	0.01 ± 0.01	<.01 ± <.01	0.03 ± 0.02	0.07 ± 0.06	0.50 ± 0.24	<.01 ± <.01	0.03 ± 0.02	0.09 ± 0.03
1983-84	0.00	0.03 ± 0.03	0.00	0.01 ± 0.01	0.02 ± 0.02	0.00	0.01 ± <.01	<.01 ± <.01
1984-85	0.09 ± 0.07	<.01 ± <.01	0.00	0.00	<.01 ± <.01	0.04 ± 0.04	<.01 ± <.01	0.03 ± 0.02
1985-86	0.00	<.01 ± <.01	0.00	0.01 ± 0.01	0.19 ± 0.12	0.02 ± 0.01	0.01 ± <.01	0.04 ± 0.02
<b>Sheepshead</b>								
1974-76	0.03 ± 0.02	0.00	0.03 ± 0.01	0.28 ± 0.24	<.01 ± <.01	0.05 ± 0.04	<.01 ± <.01	0.05 ± 0.03
1976-77	0.02	0.02	<.01	0.03	0.04	0.01	0.01	0.02
1977-78	0.05	0.05	0.05	0.09	0.02	0.02	0.06	0.05
1978-79	0.03	0.08	0.03	0.06	0.03	0.03	0.18	0.05
1979-80	0.13 ± 0.12	0.00	0.01 ± 0.01	0.73 ± 0.73	0.06 ± 0.04	0.05 ± 0.03	0.24 ± 0.19	0.13 ± 0.09
1980-81	0.05 ± 0.04	0.02 ± 0.02	<.01 ± <.01	0.81 ± 0.62	0.38 ± 0.25	0.02 ± 0.01	0.04 ± 0.03	0.11 ± 0.05
1981-82	0.02 ± 0.02	0.13 ± 0.09	0.03 ± 0.02	0.05 ± 0.03	0.19 ± 0.11	0.01 ± 0.01	0.23 ± 0.13	0.08 ± 0.03
1982-83	0.01 ± <.01	0.17 ± 0.11	0.11 ± 0.05	0.21 ± 0.16	0.51 ± 0.31	0.01 ± 0.04	0.12 ± 0.08	0.15 ± 0.05
1983-84	0.01 ± <.01	0.16 ± 0.16	0.01 ± 0.01	0.26 ± 0.18	0.02 ± 0.01	0.01 ± 0.01	0.10 ± 0.06	0.05 ± 0.02
1984-85	<.01 ± <.01	0.03 ± 0.02	0.00	0.51 ± 0.40	0.02 ± 0.02	<.01 ± <.01	0.02 ± 0.02	0.08 ± 0.05
1985-86	0.02 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.07 ± 0.03	<.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01

Table D.13. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Southern flounder</b>								
1974-76	0.07 ± 0.04	0.45 ± 0.45	0.03 ± 0.02	0.04 ± 0.02	0.03 ± 0.02	0.09 ± 0.05	<.01 ± <.01	0.06 ± 0.02
1976-77	0.01	0.14	0.01	0.01	0.01	<.01	<.01	0.02
1977-78	0.02	0.04	0.02	0.01	0.02	0.01	0.01	0.02
1978-79	0.02	0.07	<.01	0.05	0.02	0.02	0.02	0.03
1979-80	0.48 ± 0.48	0.03 ± 0.03	<.01 ± <.01	0.00	0.04 ± 0.03	0.01 ± 0.01	0.01 ± 0.01	0.29 ± 0.29
1980-81	<.01 ± <.01	0.00	<.01 ± <.01	0.01 ± <.01	0.11 ± 0.10	0.03 ± 0.02	0.01 ± <.01	0.03 ± 0.02
1981-82	0.03 ± 0.02	0.02 ± 0.01	0.04 ± 0.03	0.02 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01
1982-83	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.03 ± 0.01	0.03 ± 0.01	0.02 ± <.01
1983-84	0.02 ± 0.01	0.06 ± 0.04	0.01 ± 0.01	0.03 ± 0.02	<.01 ± <.01	0.04 ± 0.03	<.01 ± <.01	0.02 ± 0.01
1984-85	0.12 ± 0.10	0.01 ± <.01	0.04 ± 0.03	0.01 ± <.01	0.04 ± 0.03	<.01 ± <.01	0.04 ± 0.02	0.05 ± 0.02
1985-86	0.04 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.02 ± 0.01	0.05 ± 0.02	0.03 ± 0.01
<b>Spotted seatrout</b>								
1974-76	0.24 ± 0.16	0.65 ± 0.65	1.00 ± 0.45	0.64 ± 0.39	0.26 ± 0.14	0.74 ± 0.46	0.42 ± 0.28	0.42 ± 0.13
1976-77	0.41	0.09	0.02	0.44	0.20	0.18	0.90	0.44
1977-78	0.04	0.12	0.10	0.33	0.42	0.19	0.24	0.16
1978-79	0.06	0.22	0.03	0.55	0.13	0.17	0.29	0.17
1979-80	0.02 ± 0.02	0.12 ± 0.12	0.26 ± 0.17	0.17 ± 0.13	0.16 ± 0.15	0.57 ± 0.35	0.46 ± 0.39	0.16 ± 0.08
1980-81	0.46 ± 0.37	0.06 ± 0.06	0.47 ± 0.32	0.39 ± 0.31	0.19 ± 0.12	0.41 ± 0.28	0.29 ± 0.17	0.35 ± 0.15
1981-82	0.16 ± 0.14	0.15 ± 0.12	0.26 ± 0.13	0.38 ± 0.15	0.46 ± 0.27	0.57 ± 0.43	0.36 ± 0.12	0.35 ± 0.10
1982-83	0.05 ± 0.04	0.20 ± 0.14	0.12 ± 0.05	0.30 ± 0.15	0.17 ± 0.07	0.38 ± 0.15	0.42 ± 0.17	0.23 ± 0.05
1983-84	0.15 ± 0.12	0.17 ± 0.12	0.05 ± 0.05	0.21 ± 0.17	0.16 ± 0.13	0.06 ± 0.05	0.23 ± 0.11	0.16 ± 0.08
1984-85	0.07 ± 0.06	0.11 ± 0.07	0.09 ± 0.06	0.38 ± 0.31	0.09 ± 0.07	0.02 ± 0.01	0.21 ± 0.12	0.14 ± 0.06
1985-86	0.01 ± 0.01	0.16 ± 0.08	0.09 ± 0.06	0.20 ± 0.10	0.19 ± 0.12	0.20 ± 0.09	0.17 ± 0.07	0.15 ± 0.04
<b>Other species</b>								
1974-76	0.04 ± 0.03	0.07 ± 0.07	0.02 ± 0.01	0.00	<.01 ± <.01	0.01 ± 0.01	0.00	0.02 ± 0.01
1976-77	<.01	0.01	0.01	<.01	0.03	0.00	0.08	0.03
1977-78	0.20	0.01	0.01	0.01	0.04	0.00	0.01	0.07
1978-79	0.06	<.01	<.01	0.01	0.12	0.00	<.01	0.04
1979-80	0.00	0.00	0.00	0.00	1.12 ± 1.12	<.01 ± <.01	0.02 ± 0.02	0.07 ± 0.07
1980-81	0.10 ± 0.07	<.01 ± <.01	0.01 ± 0.01	0.00	0.03 ± 0.03	0.00	0.04 ± 0.03	0.04 ± 0.02
1981-82	0.05 ± 0.03	0.03 ± 0.03	0.01 ± <.01	0.01 ± 0.01	0.06 ± 0.03	0.00	0.01 ± 0.01	0.03 ± 0.01
1982-83	0.11 ± 0.07	0.00	0.03 ± 0.01	0.02 ± 0.01	0.12 ± 0.06	0.00	0.04 ± 0.02	0.06 ± 0.02
1983-84	0.07 ± 0.07	0.00	0.00	0.04	0.01	<.01 ± <.01	0.02 ± 0.02	0.05 ± 0.05
1984-85	0.02	<.01 ± <.01	0.00	<.01	0.04	0.00	0.01	0.03 ± 0.01
1985-86	0.24	<.01 ± <.01	0.00	0.01 ± <.01	0.03	0.04	0.01 ± 0.01	0.06

Table D.13. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
All species combined <sup>a</sup>									
1974-76	0.97 ± 0.69	1.64 ± 1.40	1.31 ± 0.59	1.13 ± 0.54	0.50 ± 0.27	1.78 ± 1.25	0.49 ± 0.31	0.94 ± 0.33	
1976-77	0.57	0.44	0.19	0.53	1.16	0.26	1.06	0.67	
1977-78	0.54	0.39	0.38	0.57	0.72	0.29	0.45	0.45	
1978-79	0.97	0.41	0.40	0.90	0.37	0.30	0.59	0.65	
1979-80	0.66 ± 0.62	0.27 ± 0.23	0.45 ± 0.25	1.13 ± 1.06	1.59 ± 1.17	0.77 ± 0.38	0.77 ± 0.62	0.73 ± 0.45	
1980-81	0.79 ± 0.48	0.30 ± 0.21	0.51 ± 0.33	1.21 ± 0.81	0.79 ± 0.45	0.47 ± 0.32	0.44 ± 0.21	0.63 ± 0.21	
1981-82	0.54 ± 0.40	0.51 ± 0.28	0.59 ± 0.27	0.61 ± 0.22	1.10 ± 0.38	0.64 ± 0.46	0.74 ± 0.25	0.68 ± 0.17	
1982-83	0.55 ± 0.35	0.66 ± 0.32	0.44 ± 0.14	0.76 ± 0.34	1.43 ± 0.57	0.47 ± 0.17	0.75 ± 0.25	0.73 ± 0.15	
1983-84	0.26 ± 0.20	0.64 ± 0.43	0.12 ± 0.10	0.66 ± 0.47	0.35 ± 0.24	0.18 ± 0.14	0.43 ± 0.19	0.33 ± 0.16	
1984-85	0.44 ± 0.29	0.24 ± 0.14	0.43 ± 0.20	1.02 ± 0.67	0.25 ± 0.19	0.07 ± 0.05	0.36 ± 0.16	0.40 ± 0.13	
1985-86	0.32 ± 0.31	0.27 ± 0.12	0.17 ± 0.09	0.36 ± 0.14	0.53 ± 0.23	0.30 ± 0.12	0.33 ± 0.12	0.36 ± 0.07	

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.



Table D.14. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1974-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-76	0.18 $\pm$ 0.07	0.24 $\pm$ 0.18	0.24 $\pm$ 0.11	0.15 $\pm$ 0.02	0.27 $\pm$ 0.10	0.33 $\pm$ 0.11	0.30 $\pm$ 0.09	0.23 $\pm$ 0.08
1976-77	0.23 $\pm$ 0.08	0.14 $\pm$ 0.03	0.26 $\pm$ 0.03	0.22 $\pm$ 0.07	0.26 $\pm$ 0.08	0.24 $\pm$ 0.10	0.48 $\pm$ 0.16	0.24 $\pm$ 0.04
1977-78	0.22 $\pm$ 0.09	0.14 $\pm$ 0.10	0.37 $\pm$ 0.12	0.27 $\pm$ 0.14	0.21 $\pm$ 0.11	0.29 $\pm$ 0.06	0.23 $\pm$ 0.04	0.22 $\pm$ 0.06
1978-79	0.18 $\pm$ 0.14	0.18 $\pm$ 0.14	0.23 $\pm$ 0.03	0.12 $\pm$ 0.03	0.26 $\pm$ 0.10	0.35 $\pm$ 0.18	0.25 $\pm$ 0.09	0.22 $\pm$ 0.14
1979-80	0.20 $\pm$ 0.12	0.18 $\pm$ 0.11	0.30 $\pm$ 0.07	0.13 $\pm$ 0.08	0.20 $\pm$ 0.06	0.25 $\pm$ 0.06	0.22 $\pm$ 0.06	0.21 $\pm$ 0.06
1980-81	0.21 $\pm$ 0.09	0.16 $\pm$ 0.03	0.24 $\pm$ 0.12	0.29 $\pm$ 0.07	0.30 $\pm$ 0.08	0.27 $\pm$ 0.09	0.21 $\pm$ 0.05	0.23 $\pm$ 0.06
1981-82	0.18 $\pm$ 0.04	0.16 $\pm$ 0.02	0.14 $\pm$ 0.11	0.26 $\pm$ 0.02	0.32 $\pm$ 0.18	0.27 $\pm$ 0.05	0.28 $\pm$ 0.04	0.27 $\pm$ 0.09
1982-83	0.21 $\pm$ 0.04	0.16 $\pm$ 0.02	0.22 $\pm$ 0.05	0.27 $\pm$ 0.07	0.34 $\pm$ 0.09	0.30 $\pm$ 0.06	0.27 $\pm$ 0.09	0.26 $\pm$ 0.04
1983-84	0.22 $\pm$ 0.03	0.17 $\pm$ 0.01	0.17 $\pm$ 0.01	0.36 $\pm$ 0.02	0.31 $\pm$ 0.02	0.33 $\pm$ 0.01	0.26 $\pm$ 0.02	0.26 $\pm$ 0.02
1984-85	0.18 $\pm$ 0.02	0.14 $\pm$ 0.01	0.15 $\pm$ 0.03	0.23 $\pm$ 0.02	0.21 $\pm$ 0.02	0.21 $\pm$ 0.04	0.17 $\pm$ 0.01	0.18 $\pm$ 0.02
1985-86	0.16 $\pm$ 0.01	0.15 $\pm$ 0.01	0.23 $\pm$ 0.05	0.24 $\pm$ 0.01	0.18 $\pm$ 0.01	0.24 $\pm$ 0.01	0.16 $\pm$ 0.01	0.17 $\pm$ 0.01
<b>Black drum</b>								
1974-76	2.19 $\pm$ 3.20	0.91 $\pm$ 0.33	1.16 $\pm$ 0.89	0.70 $\pm$ 0.30	6.64 $\pm$ 7.16	2.28 $\pm$ 2.15	2.56 $\pm$ 2.73	2.02 $\pm$ 1.00
1976-77	0.83 $\pm$ 0.55	0.43 $\pm$ 0.11	6.18 $\pm$ 12.18	0.94 $\pm$ 0.40	2.57 $\pm$ 2.78	1.43 $\pm$ 1.50	4.30 $\pm$ 5.07	1.04 $\pm$ 0.16
1977-78	1.25 $\pm$ 1.06	0.99 $\pm$ 1.43	1.10 $\pm$ 0.79	0.59 $\pm$ 0.42	3.66 $\pm$ 4.76	1.30 $\pm$ 0.78	4.88 $\pm$ 5.02	2.03 $\pm$ 1.22
1978-79	4.22 $\pm$ 10.20	1.65 $\pm$ 1.30	5.94 $\pm$ 5.92	0.44 $\pm$ 0.16	1.77 $\pm$ 1.14	2.50 $\pm$ 1.71	7.24 $\pm$ 8.50	4.18 $\pm$ 4.56
1979-80	0.42 $\pm$ 0.10	0.48 $\pm$ 0.30	3.55 $\pm$ 5.08	0.50 $\pm$ 0.12	4.58 $\pm$ 6.39	1.37 $\pm$ 0.89	0.51 $\pm$ 0.55	1.71 $\pm$ 1.72
1980-81	2.63 $\pm$ 5.16	0.38 $\pm$ 0.22	0.92 $\pm$ 1.04	0.50 $\pm$ 0.08	0.70 $\pm$ 0.36	0.70 $\pm$ 0.18	0.51 $\pm$ 0.27	1.17 $\pm$ 1.51
1981-82	0.53 $\pm$ 0.22	0.51 $\pm$ 0.18	0.48 $\pm$ 0.29	0.63 $\pm$ 0.34	0.60 $\pm$ 0.20	0.91 $\pm$ 0.26	1.29 $\pm$ 0.85	0.67 $\pm$ 0.18
1982-83	1.63 $\pm$ 1.67	0.42 $\pm$ 0.16	3.57	0.46 $\pm$ 0.14	0.81 $\pm$ 2.28	1.05 $\pm$ 0.37	0.99 $\pm$ 0.51	1.47 $\pm$ 0.72
1983-84	2.18 $\pm$ 0.95	1.05 $\pm$ 0.27	0.84 $\pm$ 0.05	0.92 $\pm$ 0.10	0.92 $\pm$ 0.10	1.11 $\pm$ 0.14	0.98 $\pm$ 0.25	1.38 $\pm$ 0.44
1984-85	1.82 $\pm$ 0.32	1.99 $\pm$ 0.88	0.46 $\pm$ 0.10	0.69 $\pm$ 0.10	0.84 $\pm$ 0.07	0.69 $\pm$ 0.11	1.51 $\pm$ 0.65	1.59 $\pm$ 0.44
1985-86	3.81 $\pm$ 1.54	3.56 $\pm$ 2.08	0.88 $\pm$ 0.15	0.85 $\pm$ 0.10	2.71 $\pm$ 1.54	0.79 $\pm$ 0.09	0.72 $\pm$ 0.17	2.71 $\pm$ 1.23
<b>Gafftopsail catfish</b>								
1974-76	1.37 $\pm$ 0.30	1.55 $\pm$ 0.61	1.26 $\pm$ 0.20	1.30 $\pm$ 0.37	1.26 $\pm$ 0.34	2.42 $\pm$ 0.87	0.22 $\pm$ <.01	1.30 $\pm$ 0.15
1976-77	1.90 $\pm$ 0.64	1.55 $\pm$ 0.32	1.38 $\pm$ 0.20	1.47 $\pm$ 0.27	1.30 $\pm$ 0.43	1.34 $\pm$ 0.19	0.83 $\pm$ 0.71	1.49 $\pm$ 0.28
1977-78	1.10 $\pm$ 0.19	1.32 $\pm$ 0.29	1.42 $\pm$ 0.14	0.91 $\pm$ 0.60	1.25 $\pm$ 0.32	1.66 $\pm$ 0.12	0.23 $\pm$ <.01	1.28 $\pm$ 0.14
1978-79	1.26 $\pm$ 0.38	1.45 $\pm$ 0.49	0.87 $\pm$ 0.37	1.33 $\pm$ 0.45	1.25 $\pm$ 0.32	1.02 $\pm$ <.01	0.83 $\pm$ 0.71	1.25 $\pm$ 0.21
1979-80	0.72 $\pm$ 0.23	1.24 $\pm$ 0.52	1.38 $\pm$ 0.44	2.13 $\pm$ <.01	1.66 $\pm$ 0.35	1.35 $\pm$ <.01	0.23 $\pm$ <.01	1.45 $\pm$ 0.25
1980-81	1.52 $\pm$ 0.60	1.20 $\pm$ 0.30	0.90 $\pm$ 0.16	1.58 $\pm$ 0.35	1.18 $\pm$ 0.35	0.35 $\pm$ <.01	0.23 $\pm$ <.01	1.35 $\pm$ 0.36
1981-82	0.92 $\pm$ 0.30	1.24 $\pm$ 0.34	1.53 $\pm$ 0.30	1.32 $\pm$ 0.31	1.35 $\pm$ 0.24	0.18 $\pm$ 0.02	0.23 $\pm$ <.01	1.29 $\pm$ 0.15
1982-83	1.41 $\pm$ 0.40	1.37 $\pm$ 0.64	1.04 $\pm$ 0.14	0.91 $\pm$ 0.19	1.17 $\pm$ 0.36	0.20 $\pm$ 0.03	1.13 $\pm$ 0.64	1.17 $\pm$ 0.18
1983-84	0.72 $\pm$ 0.10	1.06 $\pm$ 0.12	1.24 $\pm$ 0.13	1.06 $\pm$ 0.09	1.39 $\pm$ 0.07	1.16 $\pm$ 0.11	0.78 $\pm$ 0.11	1.13 $\pm$ 0.10
1984-85	0.98 $\pm$ 0.12	1.22 $\pm$ 0.12	1.11 $\pm$ 0.17	0.97 $\pm$ 0.22	1.41 $\pm$ 0.14	0.36 $\pm$ 0.02	0.13 $\pm$ 0.05	1.10 $\pm$ 0.14
1985-86	1.03 $\pm$ 0.16	1.17 $\pm$ 0.11	0.86 $\pm$ 0.09	1.58 $\pm$ 0.15	0.94 $\pm$ 0.24	1.41	0.13 $\pm$ 0.05	1.15 $\pm$ 0.16

Table D.14. (Cont'd.)

Species Year	Bay system																			
	San Antonio					Upper Laguna Madre					Lower Laguna Madre									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide												
<b>Red drum</b>																				
1974-76	0.79 ± 0.13	0.75 ± 0.16	1.11 ± 0.19	0.94 ± 0.25	0.89 ± 0.42	1.13 ± 0.19	0.99 ± 0.42	1.02 ± 0.11												
1976-77	1.31 ± 0.19	0.90 ± 0.35	1.21 ± 0.28	0.99 ± 0.33	0.96 ± 0.29	1.16 ± 0.36	0.92 ± 0.36	1.04 ± 0.16												
1977-78	1.07 ± 0.32	1.14 ± 0.30	0.76 ± 0.16	1.00 ± 0.50	1.08 ± 0.26	1.18 ± 0.19	1.07 ± 0.37	0.94 ± 0.15												
1978-79	1.72 ± 0.71	0.93 ± 0.29	0.72 ± 0.21	0.76 ± 0.21	1.26 ± 0.59	1.10 ± 0.29	1.36 ± 0.32	0.88 ± 0.27												
1979-80	0.59 ± 0.15	0.81 ± 0.45	0.76 ± 0.66	0.67 ± 0.20	0.85 ± 0.46	0.76 ± 0.10	0.61 ± 0.18	0.74 ± 0.22												
1980-81	1.18 ± 0.31	1.33 ± 0.28	1.18 ± 0.23	1.01 ± 0.21	1.03 ± 0.21	0.92 ± 0.13	0.91 ± 0.18	1.09 ± 0.09												
1981-82	1.62 ± 0.40	1.56 ± 0.36	1.15 ± 0.26	1.08 ± 0.14	1.12 ± 0.17	1.14 ± 0.12	1.55 ± 0.78	1.25 ± 0.17												
1982-83	1.34 ± 0.42	1.59 ± 0.24	1.67 ± 0.27	1.54 ± 0.25	1.46 ± 0.15	1.50 ± 0.19	1.31 ± 0.29	1.51 ± 0.12												
1983-84	1.90 ± 0.24	1.59 ± 0.07	1.45 ± 0.06	1.73 ± 0.33	1.35 ± 0.08	1.62 ± 0.06	1.57 ± 0.06	1.60 ± 0.13												
1984-85	2.02 ± 0.14	2.16 ± 0.10	1.73 ± 0.11	1.70 ± 0.09	1.64 ± 0.09	1.77 ± 0.13	2.06 ± 0.07	1.89 ± 0.10												
1985-86	2.16 ± 0.21	2.04 ± 0.11	1.79 ± 0.06	1.82 ± 0.05	1.67 ± 0.06	1.70 ± 0.03	1.93 ± 0.05	1.87 ± 0.08												
<b>Sand seatrout</b>																				
1974-76	0.30 ± 0.21	0.25 ± 0.02	0.32 ± 0.08	0.26 ± 0.04	0.29 ± 0.07	0.37 ± 0.13	0.31 ± 0.16	0.31 ± 0.09												
1976-77	0.36 ± 0.12	0.24 ± 0.05	0.22 ± 0.01	0.21 ± 0.01	0.33 ± 0.14	0.25 ± 0.06	0.31 ± 0.08	0.32 ± 0.11												
1977-78	0.36 ± 0.11	0.25 ± 0.05	0.24 ± 0.06	0.25 ± 0.21	0.42 ± 0.26	0.54 ± 0.32	0.30 ± 0.10	0.35 ± 0.08												
1978-79	0.30 ± 0.16	0.27 ± 0.12	0.22 ± 0.11	0.29 ± 0.10	0.30 ± 0.14	0.41 ± 0.08	0.20 ± 0.03	0.29 ± 0.08												
1979-80	0.20 ± 0.07	0.22 ± 0.06	0.22 ± 0.06	0.28 ± 0.04	0.29 ± 0.04	0.36 ± 0.09	0.32 ± 0.08	0.23 ± 0.05												
1980-81	0.24 ± 0.09	0.22 ± 0.04	0.30 ± 0.03	0.22 ± 0.03	0.29 ± 0.09	0.30 ± 0.06	0.28 ± 0.08	0.26 ± 0.04												
1981-82	0.27 ± 0.08	0.23 ± 0.13	0.26 ± 0.03	0.25 ± 0.03	0.29 ± 0.06	0.32 ± 0.04	0.31 ± 0.05	0.28 ± 0.03												
1982-83	0.25 ± 0.05	0.21 ± 0.05	0.28 ± 0.06	0.24 ± 0.05	0.27 ± 0.07	0.33 ± 0.03	0.33 ± 0.06	0.26 ± 0.03												
1983-84	0.25 ± 0.10	0.27 ± 0.03	0.28 ± 0.03	0.27 ± 0.02	0.32 ± 0.02	0.35 ± 0.01	0.29 ± 0.02	0.28 ± 0.02												
1984-85	0.23 ± 0.02	0.26 ± 0.02	0.30 ± 0.04	0.24 ± 0.01	0.23 ± 0.01	0.27 ± 0.02	0.26 ± 0.01	0.23 ± 0.02												
1985-86	0.25 ± 0.02	0.21 ± 0.01	0.25 ± 0.02	0.25 ± 0.02	0.23 ± 0.01	0.31 ± 0.02	0.26 ± 0.01	0.24 ± 0.02												
<b>Sheepshead</b>																				
1974-76	0.68 ± 0.13	0.41 ± 0.18	0.75 ± 0.16	0.56 ± 0.31	0.72 ± 0.34	1.33 ± 0.29	1.14 ± 0.22	0.72 ± 0.14												
1976-77	0.91 ± 0.25	1.02 ± 0.68	1.04 ± 0.45	0.58 ± 0.09	0.88 ± 0.13	0.76 ± 0.19	0.95 ± 0.12	0.89 ± 0.16												
1977-78	0.88 ± 0.20	0.58 ± 0.35	0.70 ± 0.35	0.58 ± 0.21	0.65 ± 0.12	0.97 ± 0.19	0.74 ± 0.26	0.76 ± 0.12												
1978-79	0.79 ± 0.14	0.69 ± 0.39	0.79 ± 0.35	0.59 ± 0.24	0.83 ± 0.24	1.02 ± 0.20	0.81 ± 0.34	0.78 ± 0.10												
1979-80	0.91 ± 0.11	0.73 ± 0.15	0.96 ± 0.16	0.58 ± 0.14	1.00 ± 0.17	1.11 ± 0.22	0.64 ± 0.42	0.78 ± 0.17												
1980-81	0.73 ± 0.40	0.29 ± 0.16	0.59 ± 0.11	0.63 ± 0.17	0.78 ± 0.21	1.07 ± 0.16	0.90 ± 0.28	0.71 ± 0.14												
1981-82	0.87 ± 0.11	0.44 ± 0.29	0.78 ± 0.22	0.79 ± 0.20	0.68 ± 0.17	1.17 ± 0.14	0.70 ± 0.16	0.71 ± 0.11												
1982-83	0.89 ± 0.17	0.51 ± 0.21	0.88 ± 0.17	0.86 ± 0.12	0.96 ± 0.16	1.22 ± 0.07	0.63 ± 0.23	0.85 ± 0.14												
1983-84	0.77 ± 0.03	0.77 ± 0.06	1.03 ± 0.04	0.99 ± 0.08	0.85 ± 0.07	1.07 ± 0.05	0.76 ± 0.04	0.83 ± 0.05												
1984-85	0.82 ± 0.03	0.85 ± 0.04	1.08 ± 0.06	1.04 ± 0.02	1.06 ± 0.07	1.21 ± 0.12	0.79 ± 0.06	0.92 ± 0.03												
1985-86	1.01 ± 0.05	0.97 ± 0.09	1.01 ± 0.21	1.17 ± 0.11	1.14 ± 0.08	1.78 ± 0.09	0.80 ± 0.10	1.07 ± 0.09												

Table D.14. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1974-76	0.62 ± 0.08	0.78 ± 0.30	0.64 ± 0.07	0.52 ± 0.09	0.38 ± 0.08	0.77 ± 0.09	0.77 ± 0.17	0.65 ± 0.05
1976-77	0.66 ± 0.15	0.52 ± 0.10	0.68 ± 0.18	0.45 ± 0.10	0.67 ± 0.32	0.59 ± 0.12	0.77 ± 0.12	0.64 ± 0.09
1977-78	0.64 ± 0.13	0.51 ± 0.12	0.63 ± 0.10	0.52 ± 0.21	0.69 ± 0.12	0.73 ± 0.08	0.87 ± 0.07	0.66 ± 0.09
1978-79	0.66 ± 0.24	0.43 ± 0.29	0.59 ± 0.22	0.78 ± 0.50	0.57 ± 0.17	0.76 ± 0.10	0.52 ± 0.07	0.60 ± 0.12
1979-80	0.54 ± 0.08	0.54 ± 0.19	0.67 ± 0.19	0.51 ± 0.05	0.61 ± 0.15	0.72 ± 0.12	0.62 ± 0.12	0.61 ± 0.06
1980-81	0.62 ± 0.12	0.55 ± 0.11	0.71 ± 0.09	0.69 ± 0.17	0.62 ± 0.14	0.59 ± 0.08	0.68 ± 0.13	0.65 ± 0.05
1981-82	0.59 ± 0.11	0.47 ± 0.04	0.71 ± 0.05	0.51 ± 0.06	0.56 ± 0.15	0.72 ± 0.09	0.74 ± 0.09	0.61 ± 0.06
1982-83	0.60 ± 0.11	0.54 ± 0.07	0.67 ± 0.14	0.46 ± 0.07	0.51 ± 0.07	0.69 ± 0.05	0.65 ± 0.06	0.61 ± 0.04
1983-84	0.53 ± 0.03	0.61 ± 0.05	0.65 ± 0.04	0.53 ± 0.03	0.56 ± 0.03	0.75 ± 0.04	0.71 ± 0.04	0.57 ± 0.03
1984-85	0.57 ± 0.02	0.59 ± 0.03	0.63 ± 0.04	0.50 ± 0.03	0.54 ± 0.03	0.63 ± 0.09	0.44 ± 0.05	0.56 ± 0.03
1985-86	0.56 ± 0.03	0.50 ± 0.02	0.71 ± 0.12	0.57 ± 0.02	0.50 ± 0.03	0.59 ± 0.01	0.57 ± 0.02	0.56 ± 0.03
Spotted seatrout								
1974-76	0.66 ± 0.28	0.41 ± 0.36	0.42 ± 0.14	0.32 ± 0.14	0.38 ± 0.17	0.54 ± 0.13	0.54 ± 0.22	0.44 ± 0.10
1976-77	0.60 ± 0.22	0.24 ± 0.05	0.49 ± 0.13	0.34 ± 0.22	0.49 ± 0.33	0.56 ± 0.38	0.48 ± 0.16	0.49 ± 0.17
1977-78	0.36 ± 0.11	0.25 ± 0.05	0.46 ± 0.20	0.32 ± 0.17	0.44 ± 0.23	0.45 ± 0.12	0.54 ± 0.18	0.48 ± 0.12
1978-79	0.71 ± 0.31	0.42 ± 0.18	0.40 ± 0.15	0.33 ± 0.26	0.45 ± 0.15	0.56 ± 0.20	0.48 ± 0.47	0.49 ± 0.14
1979-80	0.45 ± 0.13	0.46 ± 0.41	0.45 ± 0.10	0.38 ± 0.10	0.52 ± 0.15	0.51 ± 0.17	0.45 ± 0.18	0.47 ± 0.07
1980-81	0.66 ± 0.29	0.43 ± 0.08	0.47 ± 0.14	0.41 ± 0.06	0.51 ± 0.25	0.44 ± 0.11	0.49 ± 0.16	0.50 ± 0.10
1981-82	0.62 ± 0.20	0.45 ± 0.09	0.51 ± 0.07	0.41 ± 0.07	0.55 ± 0.14	0.46 ± 0.06	0.31 ± 0.05	0.51 ± 0.05
1982-83	0.76 ± 0.28	0.52 ± 0.12	0.55 ± 0.10	0.48 ± 0.14	0.54 ± 0.08	0.50 ± 0.11	0.61 ± 0.12	0.56 ± 0.06
1983-84	0.84 ± 0.05	0.66 ± 0.03	0.59 ± 0.02	0.51 ± 0.02	0.61 ± 0.03	0.67 ± 0.02	0.68 ± 0.02	0.68 ± 0.03
1984-85	0.92 ± 0.04	0.74 ± 0.05	0.72 ± 0.04	0.76 ± 0.58	0.73 ± 0.05	0.62 ± 0.02	0.67 ± 0.02	0.74 ± 0.10
1985-86	0.85 ± 0.05	0.72 ± 0.02	0.67 ± 0.02	0.65 ± 0.02	0.67 ± 0.02	0.65 ± 0.01	0.76 ± 0.02	0.72 ± 0.02
All species combined <sup>a</sup>								
1974-76	0.41 ± 0.52	0.47 ± 0.40	0.53 ± 0.33	0.40 ± 0.22	0.52 ± 0.59	0.60 ± 0.30	0.68 ± 0.63	0.51 ± 0.18
1976-77	0.46 ± 0.56	0.54 ± 0.43	1.28 ± 3.50	0.39 ± 0.29	0.50 ± 0.46	0.56 ± 0.55	0.62 ± 1.03	0.57 ± 0.38
1977-78	0.43 ± 0.72	0.62 ± 0.65	0.62 ± 0.36	0.44 ± 0.43	0.56 ± 1.04	0.50 ± 0.24	0.77 ± 1.34	0.54 ± 0.40
1978-79	0.76 ± 4.54	0.58 ± 0.39	0.72 ± 0.89	0.42 ± 0.38	0.49 ± 0.27	0.59 ± 0.43	0.81 ± 2.63	0.68 ± 1.35
1979-80	0.28 ± 0.17	0.54 ± 0.36	0.64 ± 0.65	0.44 ± 0.14	0.77 ± 1.36	0.53 ± 0.20	0.51 ± 0.32	0.52 ± 0.28
1980-81	0.61 ± 1.46	0.50 ± 0.40	0.61 ± 0.25	0.50 ± 0.16	0.52 ± 0.22	0.46 ± 0.15	0.54 ± 0.19	0.55 ± 0.27
1981-82	0.51 ± 0.25	0.50 ± 0.18	0.62 ± 0.27	0.49 ± 0.13	0.51 ± 0.20	0.49 ± 0.12	0.64 ± 0.25	0.54 ± 0.09
1982-83	0.58 ± 0.45	0.55 ± 0.20	0.86 ± 0.57	0.58 ± 0.18	0.52 ± 0.43	0.56 ± 0.17	0.67 ± 0.16	0.61 ± 0.14
1983-84	0.72 ± 0.06	0.80 ± 0.05	0.80 ± 0.03	0.57 ± 0.05	0.53 ± 0.04	0.69 ± 0.02	0.79 ± 0.04	0.70 ± 0.05
1984-85	0.50 ± 0.05	0.99 ± 0.10	0.88 ± 0.05	0.88 ± 0.19	0.66 ± 0.05	0.59 ± 0.07	1.14 ± 0.29	0.84 ± 0.13
1985-86	0.66 ± 0.14	0.88 ± 0.12	0.79 ± 0.04	0.80 ± 0.04	0.69 ± 0.08	0.74 ± 0.03	0.86 ± 0.03	0.74 ± 0.09

<sup>a</sup>Includes "other" species.

Table D.15. Mean weights of fishes (kg/fish) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekends by species and bay system (1974-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Bay system							Upper		Lower		Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre			
<b>Atlantic croaker</b>												
1974-75	0.20 ± 0.12	0.19 ± <.01	0.27 ± 0.09	0.15 ± <.01	0.32 ± 0.21	0.35 ± 0.19	0.33 ± 0.18	0.26 ± 0.14	0.33 ± 0.18	0.26 ± 0.14		
1976	0.23 ± 0.08	0.15 ± 0.04	0.24 ± 0.06	0.22 ± 0.07	0.26 ± 0.10	0.25 ± 0.12	0.28 ± 0.11	0.24 ± 0.05	0.28 ± 0.11	0.24 ± 0.05		
1977	0.22 ± 0.10	0.13 ± 0.07	0.39 ± 0.14	0.27 ± 0.14	0.21 ± 0.11	0.28 ± 0.06	0.23 ± 0.05	0.22 ± 0.06	0.23 ± 0.05	0.22 ± 0.06		
1978	0.18 ± 0.16	0.18 ± 0.14	0.23 ± 0.03	0.12 ± 0.03	0.26 ± 0.10	0.35 ± 0.19	0.25 ± 0.10	0.22 ± 0.15	0.25 ± 0.10	0.22 ± 0.15		
1979	0.21 ± 0.12	0.28 ± 0.12	0.30 ± 0.09	0.10 ± 0.08	0.24 ± 0.09	0.25 ± 0.08	0.22 ± 0.06	0.22 ± 0.06	0.22 ± 0.06	0.22 ± 0.06		
1980	0.19 ± 0.08	0.16 ± 0.03	0.21 ± 0.16	0.31 ± 0.11	0.30 ± 0.16	0.27 ± 0.13	0.22 ± 0.16	0.23 ± 0.09	0.22 ± 0.16	0.23 ± 0.09		
1981	0.17 ± 0.10	0.15 ± 0.23	0.12 ± <.01	0.34 ± <.01	0.28 ± 0.08	0.28 ± 0.04	0.21 ± 0.04	0.24 ± 0.09	0.21 ± 0.04	0.24 ± 0.09		
1982	0.22 ± 0.05	0.16 ± 0.04	0.20 ± 0.05	0.27 ± 0.08	0.30 ± 0.09	0.30 ± 0.10	0.39 ± 0.06	0.25 ± 0.04	0.39 ± 0.06	0.25 ± 0.04		
1983	0.21 ± 0.04	0.16 ± 0.01	0.17 ± 0.02	0.33 ± 0.03	0.21 ± 0.01	0.33 ± 0.01	0.26 ± 0.02	0.24 ± 0.03	0.26 ± 0.02	0.24 ± 0.03		
1984	0.16 ± 0.01	0.13 ± 0.02	0.14 ± 0.03	0.23 ± 0.01	0.17 ± 0.01	0.21 ± 0.05	0.19 ± 0.02	0.16 ± 0.01	0.19 ± 0.02	0.16 ± 0.01		
1985	0.19 ± 0.01	0.16 ± 0.02	0.15 ± 0.02	0.26 ± 0.05	0.17 ± 0.02	0.25 ± 0.01	0.15 ± 0.01	0.19 ± 0.02	0.15 ± 0.01	0.19 ± 0.02		
<b>Black drum</b>												
1974-75	1.26 ± 0.90	1.18 ± 0.29	1.22 ± 0.54	0.45 ± <.01	0.60 ± 0.20	4.29 ± 2.76	1.06 ± <.01	1.09 ± 0.60	1.06 ± <.01	1.09 ± 0.60		
1976	0.78 ± 0.61	0.42 ± 0.14	0.54 ± 0.45	0.74 ± 0.19	0.74 ± 0.12	0.77 ± 0.33	0.88 ± 0.46	0.72 ± 0.16	0.88 ± 0.46	0.72 ± 0.16		
1977	0.91 ± 0.48	0.47 ± 0.16	0.79 ± 0.18	0.34 ± 0.08	0.77 ± 0.44	1.22 ± 0.51	0.79 ± 0.40	0.81 ± 0.23	0.79 ± 0.40	0.81 ± 0.23		
1978	1.22 ± 0.63	1.67 ± 1.37	1.03 ± 0.40	0.22 ± 0.18	1.26 ± 0.88	2.88 ± 2.25	1.27 ± 0.50	1.35 ± 0.38	1.27 ± 0.50	1.35 ± 0.38		
1979	0.40 ± 0.10	0.46 ± 0.52	0.39 ± 0.06	0.50 ± 0.12	0.65 ± 0.28	0.52 ± 0.30	1.12 ± <.01	0.46 ± 0.10	1.12 ± <.01	0.46 ± 0.10		
1980	0.48 ± 0.42	0.42 ± 0.38	0.40 ± 0.16	0.38 ± 0.04	0.80 ± 0.46	0.68 ± 0.25	0.40 ± 0.07	0.54 ± 0.23	0.40 ± 0.07	0.54 ± 0.23		
1981	0.67 ± 0.24	0.41 ± 0.09	0.53 ± 0.04	0.54 ± 0.09	0.59 ± 0.34	0.56 ± 0.09	2.39 ± 0.72	0.74 ± 0.50	2.39 ± 0.72	0.74 ± 0.50		
1982	1.33 ± 2.16	0.39 ± 0.17	0.84 ± 0.31	0.35 ± 0.05	0.46 ± 0.17	0.77 ± 0.33	1.55 ± 2.00	0.89 ± 0.70	1.55 ± 2.00	0.89 ± 0.70		
1983	0.99 ± 0.24	0.55 ± 0.06	0.84 ± 0.06	0.84 ± 0.14	0.67 ± 0.03	1.16 ± 0.19	1.32 ± 0.20	0.78 ± 0.12	1.32 ± 0.20	0.78 ± 0.12		
1984	1.12 ± 0.22	0.60 ± 0.09	0.88 ± 0.18	0.96	0.97 ± 0.05	0.38 ± 0.09	1.43 ± 0.28	1.05 ± 0.19	1.43 ± 0.28	1.05 ± 0.19		
1985	0.64 ± 0.13	0.68 ± 0.11	1.78 ± 0.69	1.17 ± 0.35	0.71 ± 0.14	0.76 ± 0.14	0.43 ± 0.10	0.71 ± 0.14	0.43 ± 0.10	0.71 ± 0.14		
<b>Gafftopsail catfish</b>												
1974-75	1.47 ± 0.07	0.59 ± <.01	1.39 ± 0.11	1.29 ± 0.25	1.52 ± 0.30	2.42 ± 0.87	0.22 ± <.01	1.27 ± 0.06	0.22 ± <.01	1.27 ± 0.06		
1976	2.06 ± 0.77	1.24 ± 0.09	1.08 ± 0.16	1.52 ± 0.37	1.27 ± 0.30	0.77 ± 0.33	0.83 ± 0.71	1.62 ± 0.41	0.83 ± 0.71	1.62 ± 0.41		
1977	0.88 ± 0.15	1.39 ± 0.24	1.43 ± 0.13	1.90 ± 1.05	1.24 ± 0.34	2.42 ± 0.87	0.83 ± 0.71	1.33 ± 0.16	0.83 ± 0.71	1.33 ± 0.16		
1978	1.28 ± 0.49	1.45 ± 0.53	0.88 ± 0.47	1.51 ± 0.82	1.62 ± 0.08	1.02 ± <.01	0.83 ± 0.71	1.27 ± 0.27	0.83 ± 0.71	1.27 ± 0.27		
1979	0.72 ± 0.23	1.21 ± 0.52	1.51 ± 0.32	1.37 ± 0.27	1.62 ± 0.08	1.02 ± <.01	0.83 ± 0.71	1.32 ± 0.28	0.83 ± 0.71	1.32 ± 0.28		
1980	1.24 ± 0.19	1.28 ± 0.45	0.67 ± 0.27	1.09 ± 0.30	1.17 ± 0.75	0.35 ± <.01	0.83 ± 0.71	1.19 ± 0.21	0.83 ± 0.71	1.19 ± 0.21		
1981	0.81 ± 0.31	1.37 ± 0.44	1.79 ± 0.05	1.09 ± 0.30	1.33 ± 0.13	0.20 ± 0.05	1.40 ± 1.00	1.28 ± 0.17	1.40 ± 1.00	1.28 ± 0.17		
1982	0.72 ± 0.40	0.96 ± 0.22	1.72 ± 0.16	0.87 ± 0.38	0.77 ± 0.34	1.10 ± 0.18	1.40 ± 1.00	0.92 ± 0.16	1.40 ± 1.00	0.92 ± 0.16		
1983	0.38	1.03 ± 0.13	1.04 ± 0.05	1.00 ± 0.05	1.36 ± 0.10	0.24	1.40 ± 1.00	1.06 ± 0.13	1.40 ± 1.00	1.06 ± 0.13		
1984	1.07 ± 0.22	1.16 ± 0.14	1.24 ± 0.13	0.58 ± 0.29	1.70 ± 0.13	0.24	1.40 ± 1.00	1.07 ± 0.18	1.40 ± 1.00	1.07 ± 0.18		
1985	0.39 ± 0.03	1.02 ± 0.08	0.89 ± 0.15	1.52 ± 0.18	1.06 ± 0.34	0.24	1.40 ± 1.00	0.77 ± 0.09	1.40 ± 1.00	0.77 ± 0.09		

Table D.15. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
<b>Red drum</b>								
1974-75	0.65 ± 0.25	0.84 ± 0.36	1.10 ± 0.41	1.25 ± 0.24	0.92 ± 0.56	1.18 ± 0.30	0.95 ± 0.50	1.04 ± 0.17
1976	1.27 ± 0.24	1.04 ± 0.34	1.18 ± 0.39	0.95 ± 0.52	0.95 ± 0.37	1.10 ± 0.24	0.88 ± 0.48	1.03 ± 0.21
1977	1.06 ± 0.38	1.23 ± 0.22	0.81 ± 0.32	1.47 ± 0.57	1.16 ± 0.73	1.24 ± 0.16	1.33 ± 0.43	1.06 ± 0.22
1978	1.76 ± 0.78	0.97 ± 0.37	1.23 ± 0.33	0.82 ± 0.42	1.32 ± 0.67	1.14 ± 0.39	1.51 ± 0.46	1.32 ± 0.26
1979	0.59 ± 0.21	1.00 ± 0.85	1.24 ± 1.55	0.77 ± 0.32	1.35 ± 0.50	1.14 ± 0.45	0.88 ± 0.43	1.09 ± 0.45
1980	0.94 ± 0.33	1.32 ± 0.37	1.07 ± 0.26	0.98 ± 0.47	1.02 ± 0.25	0.98 ± 0.21	0.88 ± 0.23	1.04 ± 0.12
1981	2.00 ± 0.60	1.14 ± 0.30	1.43 ± 0.21	1.16 ± 0.20	1.08 ± 0.35	1.09 ± 0.11	1.46 ± 0.36	1.29 ± 0.20
1982	1.03 ± 0.81	1.68 ± 0.49	1.72 ± 0.59	1.47 ± 0.24	1.45 ± 0.21	1.54 ± 0.34	1.71 ± 0.26	1.60 ± 0.21
1983	2.41 ± 0.46	1.39 ± 0.09	1.50 ± 0.06	1.32 ± 0.07	1.13 ± 0.07	1.56 ± 0.08	1.55 ± 0.10	1.45 ± 0.11
1984	1.66 ± 0.17	2.38 ± 0.12	2.20 ± 0.18	1.56 ± 0.15	1.84 ± 0.12	1.87 ± 0.17	2.09 ± 0.09	1.84 ± 0.13
1985	2.19 ± 0.35	2.03 ± 0.22	1.78 ± 0.10	1.69 ± 0.05	1.60 ± 0.12	1.65 ± 0.03	1.84 ± 0.06	1.82 ± 0.12
<b>Sand seatrout</b>								
1974-75	0.37 ± 0.18	0.25 ± 0.04	0.27 ± 0.06	0.26 ± 0.04	0.28 ± 0.05	0.38 ± 0.08	0.27 ± 0.02	0.34 ± 0.10
1976	0.36 ± 0.13	0.24 ± 0.05	0.22 ± 0.01	0.21 ± 0.01	0.31 ± 0.16	0.25 ± 0.06	0.29 ± 0.10	0.32 ± 0.15
1977	0.37 ± 0.09	0.26 ± 0.06	0.24 ± 0.06	0.25 ± 0.28	0.38 ± 0.21	0.40 ± 0.12	0.30 ± 0.12	0.35 ± 0.08
1978	0.29 ± 0.20	0.27 ± 0.12	0.22 ± 0.11	0.37 ± 0.19	0.29 ± 0.14	0.44 ± 0.10	0.20 ± 0.02	0.29 ± 0.11
1979	0.20 ± 0.08	0.22 ± 0.08	0.21 ± 0.04	0.26 ± 0.04	0.29 ± 0.06	0.35 ± 0.17	0.27 ± 0.07	0.22 ± 0.05
1980	0.21 ± 0.10	0.24 ± 0.10	0.31 ± 0.04	0.21 ± 0.04	0.29 ± 0.15	0.30 ± 0.12	0.24 ± 0.10	0.25 ± 0.07
1981	0.26 ± 0.05	0.17 ± 0.07	0.26 ± 0.03	0.21 ± 0.01	0.28 ± 0.11	0.33 ± 0.05	0.31 ± 0.14	0.27 ± 0.06
1982	0.25 ± 0.09	0.19 ± 0.03	0.26 ± 0.09	0.24 ± 0.04	0.26 ± 0.19	0.32 ± 0.04	0.34 ± 0.10	0.25 ± 0.07
1983	0.24 ± 0.01	0.24 ± 0.02	0.28 ± 0.05	0.26 ± 0.04	0.34 ± 0.03	0.36 ± 0.01	0.29 ± 0.02	0.28 ± 0.02
1984	0.21 ± 0.02	0.25 ± 0.03	0.24 ± 0.02	0.23 ± 0.00	0.22 ± 0.02	0.25 ± 0.02	0.28 ± 0.03	0.22 ± 0.02
1985	0.25 ± 0.02	0.19 ± 0.01	0.23 ± 0.02	0.22 ± 0.05	0.21 ± 0.03	0.30 ± 0.03	0.27 ± 0.02	0.25 ± 0.02
<b>Sheepshead</b>								
1974-75	0.34 ± 0.01	0.32 ± 0.01	0.81 ± 0.32	0.65 ± 0.40	0.89 ± 0.32	1.33 ± 0.39	0.87 ± 0.53	0.65 ± 0.30
1976	0.77 ± 0.18	1.03 ± 0.90	1.04 ± 0.45	0.59 ± 0.10	0.86 ± 0.14	0.65 ± 0.15	0.97 ± 0.11	0.88 ± 0.22
1977	0.86 ± 0.27	0.67 ± 0.28	0.92 ± 0.07	0.68 ± 0.32	0.61 ± 0.07	1.02 ± 0.23	0.70 ± 0.50	0.80 ± 0.14
1978	0.79 ± 0.18	0.55 ± 0.20	0.86 ± 0.21	0.60 ± 0.21	0.76 ± 0.38	1.24 ± 0.15	0.83 ± 0.22	0.74 ± 0.11
1979	0.87 ± 0.12	0.70 ± 0.20	1.01 ± 0.24	0.66 ± 0.19	1.01 ± 0.37	1.00 ± 0.13	0.74 ± 0.16	0.86 ± 0.10
1980	0.50 ± 0.36	0.29 ± 0.04	0.64 ± 0.10	0.53 ± 0.20	0.67 ± 0.18	1.00 ± 0.24	0.71 ± 0.11	0.57 ± 0.16
1981	0.82 ± 0.15	0.50 ± 0.12	0.92 ± 0.34	0.82 ± 0.15	0.90 ± 0.19	0.88 ± 0.17	0.90 ± 0.23	0.75 ± 0.14
1982	0.92 ± 0.14	0.70 ± 0.35	1.01 ± 0.20	0.90 ± 0.21	0.89 ± 0.18	1.16 ± 0.09	0.53 ± 0.22	0.90 ± 0.09
1983	0.79 ± 0.04	0.78 ± 0.06	0.99 ± 0.05	1.00 ± 0.05	0.97 ± 0.11	1.11 ± 0.05	0.77 ± 0.08	0.92 ± 0.06
1984	0.81 ± 0.04	0.86 ± 0.06	0.96 ± 0.04	0.77 ± 0.06	1.02 ± 0.17	1.39 ± 0.21	0.91 ± 0.07	0.83 ± 0.05
1985	1.01 ± 0.09	0.94 ± 0.22	1.11 ± 0.18	1.40 ± 0.22	1.24 ± 0.03	1.58 ± 0.10	1.04 ± 0.10	1.05 ± 0.12

Table D.15. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
Southern flounder									
1974-75	0.45 ± 0.28	0.98 ± 0.01	0.60 ± 0.07	0.57 ± 0.10	0.81 ± 0.32	0.73 ± 0.12	0.92 ± 0.40	0.69 ± 0.07	
1976	0.68 ± 0.20	0.43 ± 0.07	0.69 ± 0.25	0.41 ± 0.09	0.74 ± 0.41	0.59 ± 0.12	0.78 ± 0.14	0.66 ± 0.12	
1977	0.69 ± 0.16	0.55 ± 0.25	0.63 ± 0.13	0.51 ± 0.27	0.74 ± 0.08	0.78 ± 0.10	0.88 ± 0.21	0.67 ± 0.10	
1978	0.68 ± 0.27	0.54 ± 0.19	0.59 ± 0.27	0.43 ± 0.12	0.55 ± 0.22	0.81 ± 0.15	0.82 ± 0.10	0.60 ± 0.11	
1979	0.53 ± 0.10	0.60 ± 0.21	0.61 ± 0.11	0.49 ± 0.05	0.74 ± 0.11	0.77 ± 0.20	0.72 ± 0.10	0.64 ± 0.06	
1980	0.62 ± 0.18	0.54 ± 0.16	0.68 ± 0.14	0.50 ± 0.11	0.62 ± 0.19	0.51 ± 0.09	0.83 ± 0.15	0.66 ± 0.07	
1981	0.47 ± 0.10	0.45 ± 0.04	0.76 ± 0.08	0.49 ± 0.07	0.55 ± 0.10	0.84 ± 0.16	0.79 ± 0.17	0.66 ± 0.08	
1982	0.59 ± 0.15	0.58 ± 0.09	0.63 ± 0.22	0.43 ± 0.12	0.56 ± 0.20	0.70 ± 0.07	0.67 ± 0.10	0.61 ± 0.07	
1983	0.50 ± 0.02	0.66 ± 0.06	0.64 ± 0.06	0.60 ± 0.05	0.49 ± 0.07	0.76 ± 0.05	0.68 ± 0.03	0.63 ± 0.05	
1984	0.59 ± 0.03	0.59 ± 0.03	0.67 ± 0.04	0.50 ± 0.03	0.63 ± 0.06	0.70 ± 0.16	0.59 ± 0.10	0.59 ± 0.04	
1985	0.60 ± 0.04	0.49 ± 0.04	0.84 ± 0.23	0.60 ± 0.03	0.52 ± 0.03	0.58 ± 0.02	0.56 ± 0.02	0.59 ± 0.04	
Spotted seatrout									
1974-75	0.59 ± 0.67	0.35 ± 0.19	0.41 ± 0.28	0.32 ± 0.08	0.38 ± 0.18	0.54 ± 0.24	0.51 ± 0.35	0.44 ± 0.19	
1976	0.56 ± 0.24	0.59 ± 0.06	0.47 ± 0.17	0.33	0.45 ± 0.39	0.56 ± 0.51	0.46 ± 0.16	0.47 ± 0.26	
1977	0.68 ± 0.50	0.45 ± 0.30	0.46 ± 0.27	0.30 ± 0.12	0.43 ± 0.27	0.44 ± 0.16	0.55 ± 0.28	0.47 ± 0.16	
1978	0.70 ± 0.33	0.42 ± 0.21	0.38 ± 0.14	0.28 ± 0.24	0.44 ± 0.14	0.57 ± 0.28	0.44 ± 0.45	0.47 ± 0.17	
1979	0.42 ± 0.11	0.35 ± 0.36	0.44 ± 0.12	0.37 ± 0.12	0.52 ± 0.22	0.53 ± 0.20	0.48 ± 0.27	0.45 ± 0.09	
1980	0.48 ± 0.33	0.43 ± 0.12	0.45 ± 0.21	0.43 ± 0.10	0.43 ± 0.16	0.43 ± 0.16	0.50 ± 0.29	0.45 ± 0.08	
1981	0.68 ± 0.24	0.43 ± 0.12	0.47 ± 0.13	0.37 ± 0.10	0.54 ± 0.22	0.45 ± 0.14	0.49 ± 0.14	0.49 ± 0.08	
1982	0.66 ± 0.59	0.50 ± 0.18	0.52 ± 0.19	0.47 ± 0.14	0.50 ± 0.08	0.49 ± 0.19	0.63 ± 0.25	0.54 ± 0.10	
1983	0.74 ± 0.07	0.67 ± 0.06	0.55 ± 0.02	0.50 ± 0.02	0.62 ± 0.04	0.65 ± 0.02	0.69 ± 0.03	0.66 ± 0.05	
1984	0.87 ± 0.05	0.85 ± 0.10	0.70 ± 0.05	0.71 ± 0.04	0.70 ± 0.07	0.61 ± 0.05	0.67 ± 0.03	0.78 ± 0.05	
1985	0.88 ± 0.08	0.74 ± 0.04	0.67 ± 0.03	0.64 ± 0.02	0.62 ± 0.01	0.63 ± 0.01	0.76 ± 0.02	0.74 ± 0.04	
All species combined <sup>a</sup>									
1974-75	0.40 ± 0.79	0.42 ± 0.50	0.57 ± 0.62	0.42 ± 0.44	0.38 ± 0.23	0.58 ± 0.33	0.52 ± 0.44	0.50 ± 0.25	
1976	0.40 ± 0.52	0.56 ± 0.67	0.66 ± 0.50	0.36 ± 0.35	0.45 ± 0.24	0.52 ± 0.95	0.51 ± 0.32	0.47 ± 0.25	
1977	0.42 ± 0.17	0.54 ± 0.46	0.59 ± 0.52	0.40 ± 0.47	0.43 ± 0.44	0.46 ± 0.25	0.54 ± 0.29	0.45 ± 0.35	
1978	0.44 ± 0.80	0.59 ± 0.49	0.49 ± 0.36	0.33 ± 0.37	0.46 ± 0.25	0.53 ± 0.35	0.48	0.47 ± 0.30	
1979	0.27 ± 0.17	0.52 ± 0.49	0.54 ± 0.46	0.40 ± 0.12	0.54 ± 0.26	0.50 ± 0.26	0.50 ± 0.25	0.43 ± 0.21	
1980	0.34 ± 0.42	0.53 ± 0.50	0.54 ± 0.35	0.48 ± 0.31	0.44 ± 0.34	0.44 ± 0.26	0.55 ± 0.33	0.47 ± 0.18	
1981	0.50 ± 0.63	0.45 ± 0.29	0.57 ± 0.37	0.43 ± 0.17	0.49 ± 0.45	0.45 ± 0.21	0.56 ± 0.45	0.50 ± 0.15	
1982	0.53 ± 0.62	0.53 ± 0.39	0.79 ± 0.52	0.57 ± 0.25	0.42 ± 0.33	0.54 ± 0.38	0.72 ± 0.39	0.57 ± 0.22	
1983	0.63 ± 0.09	0.69 ± 0.04	0.74 ± 0.03	0.54 ± 0.05	0.55 ± 0.03	0.65 ± 0.03	0.76 ± 0.04	0.55 ± 0.07	
1984	0.37 ± 0.05	1.03 ± 0.17	0.83 ± 0.07	0.52 ± 0.09	0.69 ± 0.10	0.51 ± 0.11	1.00 ± 0.07	0.49 ± 0.06	
1985	0.47 ± 0.08	0.69 ± 0.09	0.76 ± 0.06	0.90 ± 0.08	0.71 ± 0.06	0.79 ± 0.05	0.88 ± 0.03	0.63 ± 0.07	

<sup>a</sup>Includes "other" species.

Table D.16. Mean weights of fishes (kg/fish) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekdays (1974-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
<b>Atlantic croaker</b>								
1974-75	0.19 ± 0.04	0.35 ± <.01	0.22	0.22 ± <.01	0.46 ± <.01	0.36 ± 0.15	0.39 ± <.01	0.26 ± 0.11
1976								
1977								
1978								
1979	0.15 ± <.01	0.16 ± 0.05	0.42 ± 0.08	0.25 ± 0.04	0.10 ± <.01	0.26 ± 0.13	0.20 ± 0.04	0.24 ± 0.08
1980	0.23 ± 0.20	0.17 ± 0.02	0.25 ± 0.17	0.25 ± 0.02	0.32 ± 0.15	0.32 ± 0.13	0.33 ± 0.04	0.24 ± 0.08
1981	0.19 ± 0.04	0.17 ± 0.02	0.23 ± 0.17	0.27 ± 0.15	0.36 ± 0.24	0.24 ± 0.13	0.20 ± 0.05	0.29 ± 0.16
1982	0.21 ± 0.06	0.18 ± 0.02	0.21 ± 0.07	0.37 ± 0.02	0.36 ± 0.12	0.29 ± 0.10	0.23 ± 0.02	0.26 ± 0.08
1983	0.24 ± 0.03	0.16 ± 0.02	0.17 ± 0.02	0.23 ± 0.05	0.33 ± 0.01	0.32 ± 0.02	0.23 ± 0.02	0.26 ± 0.02
1984	0.22 ± 0.03	0.16 ± 0.01	0.21 ± 0.14	0.23 ± 0.05	0.21 ± 0.02	0.21 ± 0.01	0.13 ± 0.01	0.22 ± 0.03
1985	0.14 ± 0.01	0.15 ± 0.01	0.40 ± 0.08	0.24 ± 0.01	0.18 ± 0.01	0.23 ± 0.01	0.16 ± 0.01	0.15 ± 0.01
<b>Black drum</b>								
1974-75		0.71 ± <.01	0.85 ± 0.03	0.50 ± 0.04	1.29 ± 2.56	0.69 ± 0.02	1.08 ± 1.11	0.91 ± 0.54
1976								
1977								
1978								
1979	1.60 ± <.01	0.15 ± <.01	0.55 ± <.01	0.50 ± 0.11	0.47 ± 0.22	0.97 ± 0.22	0.58 ± 0.54	0.68 ± 0.30
1980	0.65 ± 0.21	0.42 ± 0.21	0.45 ± 0.06	0.47 ± 0.07	0.64 ± 0.38	1.10 ± 0.36	1.45 ± 1.47	0.56 ± 0.13
1981	0.53 ± 0.24	0.58 ± 0.43	0.76 ± 0.53	0.32 ± 0.16	0.64 ± 0.42	0.80 ± 0.25	1.70 ± 0.71	0.63 ± 0.15
1982	0.79 ± 0.42	0.36 ± 0.08	0.94 ± 0.16	0.90 ± 0.08	0.89 ± 0.14	0.76 ± 0.10	0.77 ± 0.47	0.65 ± 0.15
1983	0.93 ± 0.22	0.78 ± 0.14	0.87 ± 0.12	0.94 ± 0.22	0.89 ± 0.14	0.76 ± 0.10	1.24 ± 0.47	0.88 ± 0.18
1984	1.85 ± 0.26	0.66 ± 0.13	0.84 ± 0.18	0.70 ± 0.07	0.55 ± 0.12	0.71 ± 0.22	0.90 ± 0.37	1.31 ± 0.21
1985	0.52 ± 0.09	0.87 ± 0.21	0.78 ± 0.19	0.70 ± 0.07	0.74 ± 0.10	0.67 ± 0.08	0.60 ± 0.33	0.65 ± 0.12
<b>Gafftopsail catfish</b>								
1974-75	1.47 ± 0.07		1.38 ± <.01	0.55 ± <.01				1.06 ± 0.55
1976								
1977								
1978								
1979								
1980	0.95 ± <.01		0.80 ± <.01	0.39 ± 0.09	1.43 ± 0.56	0.19 ± <.01	0.23 ± <.01	0.90 ± 0.08
1981	1.11 ± 0.46	1.14 ± 0.59	1.48 ± 0.44	0.95 ± 0.19	1.06 ± 0.48	0.20	0.60	1.28 ± 0.31
1982	1.52 ± 0.48	1.50 ± 0.40	1.03 ± 0.13	1.13 ± 0.18	1.44 ± 0.12	1.68	0.78 ± 0.11	1.14 ± 0.27
1983	0.73 ± 0.10	0.84 ± 0.08	1.14 ± 0.19	1.20 ± 0.23	1.36 ± 0.13	0.37	0.18	1.19 ± 0.13
1984	0.99 ± 0.15	1.36 ± 0.23	0.71 ± 0.02	1.64 ± 0.30	0.66 ± 0.17			1.10 ± 0.18
1985	1.31 ± 0.16	1.00 ± 0.11	0.81 ± 0.07	1.64 ± 0.30	0.66 ± 0.17			1.23 ± 0.19

Table D.16. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Red drum</b>								
1974-75	0.65 ± 0.25	0.94 ± <.01	1.39 ± 0.45	0.59 ± <.01	1.92 ± <.01	0.69 ± 0.02	1.60	1.45 ± 0.42
1976								
1977								
1978								
1979	0.54 ± 0.48		0.98 ± 0.80			0.55 ± <.01	0.50 ± 0.06	0.76 ± 0.34
1980	1.32 ± 0.63	1.54 ± 0.78	0.64 ± 0.29	1.06 ± 0.15	0.10 ± 0.52	0.90 ± 0.13	1.08 ± 0.26	1.21 ± 0.17
1981	1.56 ± 0.44	1.89 ± 0.49	1.42 ± 0.26	1.23 ± 0.25	1.12 ± 0.20	1.25 ± 0.26	1.33 ± 0.16	1.36 ± 0.13
1982	1.46 ± 0.28	1.52 ± 0.30	1.61 ± 0.38	1.39 ± 0.30	1.44 ± 0.28	1.59 ± 0.22	1.43 ± 0.29	1.52 ± 0.13
1983	1.47 ± 0.16	1.61 ± 0.13	1.48 ± 0.08	1.49 ± 0.11	1.44 ± 0.10	1.69 ± 0.10	1.59 ± 0.07	1.52 ± 0.22
1984	2.37 ± 0.17	2.11 ± 0.12	2.03 ± 0.10	1.83 ± 0.17	1.63 ± 0.10	1.83 ± 0.22	2.14 ± 0.12	2.00 ± 0.14
1985	2.19 ± 0.27	2.01 ± 0.14	1.72 ± 0.08	1.87 ± 0.10	1.65 ± 0.10	1.78 ± 0.07	1.96 ± 0.11	1.90 ± 0.13
<b>Sand seatrout</b>								
1974-75	0.59 ± 0.67	0.26 ± <.01	0.28 ± 0.03	0.14 ± <.01	0.33 ± 0.14	0.28 ± 0.02		0.30 ± 0.07
1976								
1977								
1978								
1979	0.36 ± <.01		0.28 ± <.01			0.34 ± 0.04	0.36 ± 0.05	0.33 ± 0.07
1980	0.26 ± 0.11	0.21 ± 0.06	0.30 ± 0.02	0.27 ± 0.04	0.27 ± 0.12	0.30 ± 0.05	0.31 ± 0.13	0.27 ± 0.05
1981	0.27 ± 0.11	0.29 ± 0.14	0.24 ± 0.04	0.25 ± 0.04	0.31 ± 0.07	0.31 ± 0.07	0.30 ± 0.04	0.29 ± 0.04
1982	0.24 ± 0.05	0.23 ± 0.06	0.32 ± 0.07	0.24 ± 0.07	0.28 ± 0.09	0.33 ± 0.05	0.33 ± 0.10	0.27 ± 0.04
1983	0.27 ± 0.02	0.29 ± 0.05	0.28 ± 0.02	0.27 ± 0.02	0.28 ± 0.02	0.30 ± 0.02	0.28 ± 0.01	0.27 ± 0.02
1984	0.25 ± 0.01	0.26 ± 0.02	0.28 ± 0.01	0.28 ± 0.02	0.24 ± 0.02	0.28 ± 0.05	0.24 ± 0.01	0.25 ± 0.01
1985	0.22 ± 0.04	0.23 ± 0.01	0.24 ± 0.02	0.21 ± 0.02	0.24 ± 0.02	0.25 ± 0.03	0.24 ± 0.02	0.25 ± 0.01
<b>Sheepshead</b>								
1974-75	0.34 ± <.01	0.75 ± <.01	0.95 ± 0.34		1.13 ± <.01	0.34 ± <.01		0.82 ± 0.19
1976								
1977								
1978								
1979	1.13 ± <.01	0.20 ± <.01	0.95 ± 0.08			0.45 ± <.01	0.65 ± 0.35	0.83 ± 0.34
1980	1.03 ± 0.08	0.51 ± 0.18	0.73 ± 0.21	0.83 ± 0.67	0.82 ± 0.40	1.15 ± 0.11	0.84 ± 0.18	0.84 ± 0.15
1981	0.86 ± 0.18	0.50 ± 0.14	0.90 ± 0.17	0.65 ± 0.20	0.75 ± 0.18	1.27 ± 0.19	0.61 ± 0.10	0.77 ± 0.09
1982	0.85 ± 0.30	0.44 ± 0.08	0.93 ± 0.14	0.91 ± 0.13	0.91 ± 0.18	1.00 ± 0.08	0.83 ± 0.19	0.77 ± 0.25
1983	0.73 ± 0.04	0.94 ± 0.08	1.12 ± 0.09	0.79 ± 0.05	0.80 ± 0.07	1.50 ± 0.20	0.79 ± 0.04	0.88 ± 0.06
1984	0.81 ± 0.03	0.79 ± 0.06	1.12 ± 0.07	0.77 ± 0.16	1.06 ± 0.11	1.59 ± 0.53	0.82 ± 0.09	0.83 ± 0.05
1985	0.94 ± 0.05	0.98 ± 0.09	1.42 ± 0.05	0.88 ± 0.10	1.05 ± 0.14		0.73 ± 0.18	1.04 ± 0.07



Table D.16. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1974-75	0.45 ± 0.28	0.36 ± <.01	0.62 ± 0.13	1.14 ± <.01		0.70 ± 0.28		0.62 ± 0.10
1976								
1977								
1978	0.70 ± 0.06		0.76 ± 0.48			0.68 ± 0.46	0.83 ± 0.01	0.75 ± 0.27
1979	0.63 ± 0.21	0.64 ± 0.15	0.62 ± 0.06	0.76 ± 0.14	0.62 ± 0.24	0.66 ± 0.11	0.59 ± 0.08	0.64 ± 0.10
1980	0.62 ± 0.16	0.47 ± 0.06	0.72 ± 0.07	0.52 ± 0.12	0.55 ± 0.24	0.65 ± 0.13	0.79 ± 0.07	0.61 ± 0.10
1981	0.66 ± 0.13	0.53 ± 0.12	0.66 ± 0.13	0.47 ± 0.07	0.48 ± 0.06	0.69 ± 0.10	0.63 ± 0.07	0.61 ± 0.05
1982	0.55 ± 0.05	0.51 ± 0.03	0.68 ± 0.05	0.49 ± 0.02	0.58 ± 0.04	0.71 ± 0.04	0.74 ± 0.09	0.61 ± 0.03
1983	0.57 ± 0.04	0.60 ± 0.05	0.63 ± 0.04	0.53 ± 0.04	0.52 ± 0.04	0.78 ± 0.12	0.53 ± 0.08	0.56 ± 0.04
1984	0.49 ± 0.04	0.53 ± 0.03	0.56 ± 0.04	0.55 ± 0.03	0.50 ± 0.04	0.52 ± 0.02	0.59 ± 0.05	0.53 ± 0.04
1985								
Spotted seatrout								
1974-75	0.59 ± 0.67	0.29 ± <.01	0.45 ± 0.19	0.25 ± 0.08	0.53 ± <.01	0.53 ± 0.39	0.49 ± 0.64	0.42 ± 0.22
1976								
1977								
1978								
1979	0.53 ± <.01	0.37 ± <.01	0.46 ± 0.19	0.36 ± <.01	0.76 ± <.01	0.42 ± 0.10	0.46 ± 0.35	0.45 ± 0.12
1980	0.68 ± 0.33	0.38 ± 0.08	0.51 ± 0.23	0.40 ± 0.08	0.47 ± 0.32	0.44 ± 0.25	0.45 ± 0.12	0.52 ± 0.20
1981	0.60 ± 0.27	0.43 ± 0.09	0.52 ± 0.10	0.42 ± 0.07	0.56 ± 0.22	0.46 ± 0.11	0.54 ± 0.12	0.52 ± 0.07
1982	0.86 ± 0.27	0.51 ± 0.17	0.53 ± 0.12	0.46 ± 0.13	0.55 ± 0.12	0.49 ± 0.12	0.57 ± 0.13	0.55 ± 0.07
1983	0.89 ± 0.04	0.63 ± 0.04	0.62 ± 0.03	0.54 ± 0.04	0.59 ± 0.03	0.69 ± 0.02	0.65 ± 0.03	0.76 ± 0.10
1984	0.94 ± 0.05	0.59 ± 0.03	0.69 ± 0.06	0.82 ± 0.18	0.85 ± 0.06	0.70 ± 0.06	0.64 ± 0.02	0.74 ± 0.06
1985	0.78 ± 0.05	0.70 ± 0.03	0.69 ± 0.04	0.65 ± 0.03	0.70 ± 0.03	0.65 ± 0.02	0.73 ± 0.03	0.73 ± 0.04
All species combined <sup>a</sup>								
1974-75	0.40 ± 0.79	0.33 ± <.01	0.50 ± 0.29	0.27 ± 0.19	0.54 ± 1.25	0.48 ± 0.46	0.61 ± 1.02	0.47 ± 0.24
1976								
1977								
1978								
1979	0.49 ± 0.58	0.29 ± <.01	0.58 ± 0.47	0.36 ± <.01	0.33 ± 0.50	0.35 ± 0.12	0.46 ± 0.03	0.51 ± 0.21
1980	0.54 ± 0.59	0.41 ± 0.68	0.64 ± 0.29	0.54 ± 0.24	0.50 ± 0.34	0.48 ± 0.19	0.51 ± 0.27	0.54 ± 0.18
1981	0.51 ± 0.32	0.51 ± 0.21	0.60 ± 0.20	0.45 ± 0.10	0.53 ± 0.28	0.49 ± 0.22	0.62 ± 0.24	0.53 ± 0.10
1982	0.54 ± 0.40	0.54 ± 0.25	0.72 ± 0.34	0.51 ± 0.19	0.44 ± 0.25	0.55 ± 0.15	0.63 ± 0.16	0.56 ± 0.12
1983	0.71 ± 0.06	0.87 ± 0.08	0.79 ± 0.06	0.52 ± 0.05	0.47 ± 0.05	0.73 ± 0.04	0.74 ± 0.03	0.70 ± 0.09
1984	0.61 ± 0.05	0.71 ± 0.08	0.96 ± 0.13	0.90 ± 0.12	0.63 ± 0.08	0.96 ± 0.15	0.76 ± 0.07	0.78 ± 0.09
1985	0.50 ± 0.09	0.86 ± 0.08	0.81 ± 0.04	0.75 ± 0.05	0.56 ± 0.08	0.67 ± 0.04	0.80 ± 0.06	0.62 ± 0.07

<sup>a</sup> Includes "other" species.

Table D.17. Mean weights of fishes (kg/fish) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay systems (1974-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1974-76	0.16 ± 0.06		0.34 ± <.01	0.14 ± <.01	0.25 ± 0.07	0.31 ± 0.05	0.21 ± 0.03	0.18 ± 0.04
1976-77	0.26 ± 0.12	0.16 ± <.01	0.28 ± 0.03		0.22 ± 0.02	0.18 ± 0.01	0.30 ± 0.11	0.24 ± 0.06
1977-78	0.25 ± 0.02	0.26 ± 0.03	0.22 ± <.01		0.29 ± 0.05	0.34 ± 0.08	0.26 ± 0.08	0.28 ± 0.03
1978-79	0.15 ± 0.07					0.22 ± <.01	0.19 ± 0.09	0.16 ± 0.05
1979-80	0.10 ± <.01	0.13 ± <.01		0.11 ± <.01	0.18 ± 0.01	0.29 ± 0.03	0.21 ± <.01	0.14 ± 0.09
1980-81	1.00 ± <.01	0.07 ± <.01			0.26 ± 0.05	0.23 ± 0.12	0.21 ± 0.06	0.23 ± 0.09
1981-82	0.25 ± 0.14	0.14 ± <.01			0.21 ± 0.11	0.30 ± 0.02	0.38 ± 0.18	0.28 ± 0.04
1982-83	0.28 ± 0.06	0.20 ± 0.08	0.50 ± 0.00		0.22 ± 0.02	0.21 ± 0.03	0.13 ± 0.12	0.20 ± 0.09
1983-84	0.09 ± 0.04	0.20 ± 0.08		0.31				0.29 ± 0.29
1984-85	0.13	0.11 ± 0.01			0.23	0.17 ± 0.03	0.17 ± 0.01	0.14 ± 0.03
1985-86	0.18	0.14		0.20 ± 0.03	0.50	0.18 ± 0.01		0.17 ± 0.06
<b>Black drum</b>								
1974-76	2.42 ± 4.42	0.59 ± 0.26	2.05 ± 3.04	1.06 ± 0.36	3.62 ± 8.66	2.16 ± 3.72	1.17 ± 0.41	2.14 ± 1.65
1976-77	1.59 ± 0.90	0.43 ± 0.17	14.65 ± 6.49	1.39 ± 0.87	9.84 ± 1.96	4.68 ± 1.91	5.60 ± 7.97	6.29 ± 4.01
1977-78	1.98 ± 3.32	1.95 ± 5.38	1.26 ± 1.40	0.84 ± 0.65	6.98 ± 2.87	1.33 ± 1.35	5.95 ± 6.65	3.27 ± 2.45
1978-79	6.84 ± 14.25	0.45 ± <.01	7.32 ± 7.74	0.54 ± 0.01	3.48 ± 4.00	2.32 ± 2.68	9.67 ± 10.55	6.54 ± 5.54
1979-80	0.60 ± <.01	0.52 ± 0.57	4.20 ± 8.95		5.86 ± 9.71	0.90 ± 0.04	0.49 ± 0.73	3.22 ± 4.32
1980-81	2.54 ± 5.08	0.20 ± 0.17	0.66 ± 0.08	0.66 ± <.01	0.93 ± 0.21	0.57 ± 0.02	0.67 ± 0.02	0.90 ± 1.03
1981-82	1.18 ± 0.10	0.62 ± 0.17	0.65 ± 0.41	2.00 ± 4.00	0.49 ± 0.30	1.08 ± 0.89	0.88 ± 0.51	0.85 ± 0.38
1982-83	0.62 ± 0.36	0.72 ± 0.36	0.91 ± 0.04	0.75 ± 0.10	7.72 ± 3.69	2.88 ± 3.72	1.18 ± 0.93	3.21 ± 3.25
1983-84	6.30 ± 2.49	1.87 ± 1.23	0.77 ± 0.07	0.40	1.34		0.77 ± 0.53	3.76 ± 1.47
1984-85	3.97	5.96 ± 1.85	0.34 ± 0.11				5.18 ± 3.70	3.39 ± 1.47
1985-86	7.61 ± 0.12	8.06 ± 2.84	0.70 ± 0.65	1.38 ± 0.40	2.38 ± 0.27	0.33 ± 0.05	0.46 ± 0.11	5.22 ± 0.62
<b>Gafftopsail catfish</b>								
1974-76	1.78 ± 0.81	1.79 ± <.01	1.21 ± 0.30		1.26 ± 0.34			1.29 ± 0.31
1976-77	1.73 ± 0.15	1.67 ± <.01	1.41 ± 0.29	1.35 ± 0.25	0.97 ± 0.77			1.41 ± 0.36
1977-78	1.31 ± 0.17	1.26 ± 0.36	1.21 ± <.01	0.83 ± 1.03	1.50 ± 0.18			1.22 ± 0.16
1978-79	1.25 ± 0.71	1.56 ± <.01	0.85 ± 0.21	1.22 ± 0.27	1.28 ± 1.06			1.22 ± 0.33
1979-80			1.34 ± 0.72	2.13 ± <.01	1.59 ± 0.07			1.43 ± 0.46
1980-81		0.70 ± <.01	1.08 ± 0.34	2.21 ± <.01	1.34 ± <.01			1.15 ± 0.33
1981-82				1.29 ± 0.56				1.33 ± 0.56
1982-83			1.57 ± 0.05		1.65 ± 0.14			1.65 ± 0.14
1983-84	1.11	1.84	0.89		1.44			1.29 ± 0.11
1984-85		0.91 ± 0.19		1.82	0.88			0.90 ± 0.37
1985-86	0.89 ± 0.09	1.46						1.04 ± 0.45

Table D.17. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum								
1974-76	0.90 ± 0.14	0.70 ± 0.25	1.07 ± 0.23	0.74 ± 0.12	0.67 ± 0.09	1.01 ± 0.26	0.80 ± 0.30	0.88 ± 0.11
1976-77	1.44 ± 0.19	0.71 ± 0.24	1.45 ± 0.31	1.12 ± 0.39	0.70 ± 0.19	1.21 ± 0.80	1.07 ± 0.24	1.08 ± 0.28
1977-78	1.11 ± 0.23	1.09 ± 0.53	0.72 ± 0.16	0.84 ± 0.72	0.69 ± 0.10	0.97 ± 0.56	0.78 ± 0.27	0.79 ± 0.15
1978-79	1.14 ± 0.31	0.60 ± 0.12	0.68 ± 0.20	0.74 ± 0.25	0.71 ± 0.26	0.97 ± 0.40	1.13 ± 0.34	0.70 ± 0.13
1979-80	0.70 ± <0.01	0.66 ± 0.17	0.56 ± 0.06	0.68 ± 0.41	0.63 ± 0.11	0.71 ± 0.11	0.58 ± 0.18	0.61 ± 0.11
1980-81	0.90 ± 0.10	1.05 ± 0.16	1.08 ± 0.94	0.91 ± 0.08	0.94 ± 0.25	0.73 ± 0.10	0.61 ± 0.21	0.98 ± 0.36
1981-82	1.32 ± 0.22	1.06 ± 0.80	1.01 ± 0.43	0.81 ± 0.03	1.27 ± 0.28	0.96 ± 0.10	3.00 ± 5.44	1.20 ± 0.88
1982-83	0.86 ± 0.12	1.62 ± 0.27	1.94 ± 0.83	1.49 ± 0.28	1.76 ± 0.96	0.92 ± 0.22	0.88 ± 0.32	1.36 ± 0.36
1983-84	1.96 ± 0.27	1.90 ± 0.15	1.90 ± 0.20	1.52	1.93 ± 0.67	2.42 ± 0.53	1.52 ± 0.23	1.82 ± 0.29
1984-85	2.75	2.01 ± 0.22	1.26 ± 0.09	1.99 ± 0.31	1.23 ± 0.33	1.36 ± 0.15	1.47 ± 0.20	1.61 ± 0.32
1985-86	1.31 ± 0.10	2.47 ± 0.34	2.12 ± 0.35	2.20 ± 0.07	1.78 ± 0.17	2.07 ± 0.09	2.45 ± 0.18	2.10 ± 0.15
Sand seatrout								
1974-76	0.33 ± 0.15	0.36 ± <0.01	0.34 ± 0.02	0.31 ± <0.01	0.30 ± 0.16	0.56 ± 0.09	0.40 ± 0.07	0.35 ± 0.09
1976-77	0.30 ± 0.22				0.35 ± 0.24		0.38 ± 0.01	0.35 ± 0.15
1977-78	0.33 ± 0.02	0.23 ± <0.01			0.76 ± 0.31	0.80 ± <0.01	0.29 ± 0.01	0.38 ± 0.34
1978-79	0.30 ± 0.08				0.48 ± 0.14	0.38 ± <0.01	0.34 ± <0.01	0.30 ± 0.04
1979-80	0.30 ± <0.01	0.20 ± <0.01			0.26 ± 0.05	0.50 ± 0.12	0.33 ± 0.23	0.28 ± 0.06
1980-81	0.30 ± <0.01	0.36 ± <0.01	0.22 ± <0.01	0.28 ± <0.01	0.32 ± 0.11	0.40 ± <0.01	0.20 ± <0.01	0.30 ± 0.08
1981-82			0.15 ± 0.00	0.50	0.31 ± 0.07	0.39 ± 0.08	0.40 ± 0.04	0.32 ± 0.04
1982-83	0.12	0.49	0.38		0.35 ± 0.13	0.50 ± 0.10	0.45	0.35 ± 0.09
1983-84							0.40	0.14 ± 0.14
1984-85	0.26	0.36 ± 0.07	0.44 ± 0.01	0.34 ± 0.01	0.34 ± 0.09	0.36 ± 0.02	0.27 ± 0.01	0.29 ± 0.04
1985-86		0.38	0.48				0.32	0.32 ± 0.01
Sheepshead								
1974-76	0.82 ± 0.05	0.42 ± 0.26	0.54 ± 0.07	0.47 ± 0.02	0.68 ± 0.51	1.55 ± 0.20	1.26 ± 0.27	0.69 ± 0.19
1976-77	1.19 ± 0.11	0.95 ± 0.91	0.54 ± 0.12	0.54 ± 0.20	0.91 ± 0.29	0.95 ± 0.65	0.88 ± 0.41	0.92 ± 0.18
1977-78	0.93 ± 0.08	0.42 ± 0.18	0.76 ± 0.59	0.50 ± 0.26	0.86 ± 0.35	0.95 ± 0.27	0.76 ± 0.32	0.71 ± 0.19
1978-79	0.80 ± 0.13	0.81 ± 0.93	0.74 ± 0.48	0.58 ± 0.21	1.00 ± 0.13	1.00 ± 0.25	0.80 ± 0.58	0.82 ± 0.18
1979-80	0.97 ± <0.01	0.85 ± 0.26	0.74 ± 0.26		1.03 ± 0.16	1.28 ± 0.40	0.62 ± 0.98	0.78 ± 0.48
1980-81	1.60 ± 0.10	0.25 ± 0.45	0.41 ± 0.26	0.35 ± <0.01	0.98 ± 0.28	1.04 ± 0.17	1.00 ± 1.46	0.64 ± 0.58
1981-82	0.95 ± 0.33	0.26 ± 0.22	0.46 ± 0.55	0.98 ± 0.31	1.25 ± 0.02	1.23 ± 0.25	0.94 ± 0.30	0.62 ± 0.63
1982-83	0.75	1.12 ± 0.72	0.94	0.62 ± 0.09	0.88 ± 0.08	1.22 ± 0.17	0.76 ± 0.25	0.90 ± 0.16
1983-84	0.89 ± 0.04	0.81 ± 0.10	0.89 ± 0.12	1.75	0.66		0.88	0.86 ± 0.14
1984-85	1.13	0.86 ± 0.07	1.27 ± 0.05	1.11 ± 0.12	1.47	1.06 ± 1.06	0.69 ± 0.09	0.81 ± 0.15
1985-86	1.12 ± 0.15	0.86 ± 0.07	0.79 ± 0.35	1.53 ± 0.26	1.22 ± 0.12	2.02 ± 0.06	0.86	1.31 ± 0.24

Table D.17. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1974-76	0.61 ± 0.09	0.40 ± 0.07	0.68 ± 0.19	0.48 ± 0.11	0.31 ± 0.05	0.79 ± 0.20	0.68 ± 0.18	0.61 ± 0.08
1976-77	0.59 ± 0.10	0.56 ± 0.06	0.66 ± 0.35	0.56 ± 0.25	0.48 ± 0.06	0.62 ± 0.11	0.62 ± 0.01	0.57 ± 0.08
1977-78	0.48 ± 0.11	0.48 ± 0.09	0.65 ± 0.19	0.61 ± 0.16	0.35 ± 0.14	0.65 ± 0.11	0.87 ± 0.54	0.62 ± 0.17
1978-79	0.49 ± 0.26	0.27 ± 0.09	0.65 ± 0.19	0.92 ± 0.12	0.69 ± 0.03	0.73 ± 0.12	0.54 ± 0.08	0.58 ± 0.31
1979-80	0.50 ± 0.14	0.44 ± 0.10	0.16 ± 0.06	0.56 ± 0.13	0.49 ± 0.08	0.64 ± 0.16	0.43 ± 0.10	0.48 ± 0.06
1980-81	0.70 ± 0.40	0.57 ± 0.16	0.80 ± 0.22	0.42 ± 0.01	0.57 ± 0.10	0.63 ± 0.05	0.39 ± 0.14	0.55 ± 0.08
1981-82	0.67 ± 0.09	0.46 ± 0.13	0.47 ± 0.19	0.46 ± 0.11	0.62 ± 0.19	0.53 ± 0.20	0.57 ± 0.12	0.59 ± 0.08
1982-83	0.49	0.60 ± 0.30	0.55 ± 0.10	0.48 ± 0.06	0.62 ± 0.21	0.56 ± 0.09	0.67 ± 0.16	0.58 ± 0.08
1983-84	0.51 ± 0.13	0.87 ± 0.48	0.58 ± 0.07	0.59	0.51	0.76	0.72	0.64 ± 0.30
1984-85	0.42 ± 0.01	0.46 ± 0.10	0.53 ± 0.10	0.43 ± 0.05	0.46 ± 0.03	0.41 ± 0.04	0.43 ± 0.03	0.43 ± 0.03
1985-86	0.45 ± 0.03	0.42 ± 0.10	0.58 ± 0.02	0.58 ± 0.08	0.58 ± 0.04	0.66 ± 0.02	0.62 ± 0.06	0.59 ± 0.05
Spotted seatrout								
1974-76	0.60 ± 0.36	0.56 ± 0.45	0.40 ± 0.20	0.38 ± 0.21	0.33 ± 0.25	0.54 ± 0.24	0.53 ± 0.40	0.45 ± 0.19
1976-77	0.64 ± 0.33	0.58 ± 0.06	0.63 ± 0.10	0.40 ± 0.16	0.56 ± 0.15	0.53 ± 0.17	0.55 ± 0.43	0.55 ± 0.16
1977-78	0.80 ± 0.08	0.65 ± 0.85	0.48 ± 0.19	0.48 ± 0.37	0.49 ± 0.46	0.48 ± 0.14	0.50 ± 0.11	0.51 ± 0.12
1978-79	0.76 ± 0.96	0.42 ± 0.01	0.58 ± 0.31	0.48 ± 0.12	0.63 ± 0.04	0.51 ± 0.28	0.62 ± 0.63	0.54 ± 0.18
1979-80	0.89 ± 0.12	0.51 ± 0.04	0.56 ± 0.30	0.46 ± 0.12	0.55 ± 0.17	0.48 ± 0.24	0.40 ± 0.24	0.48 ± 0.12
1980-81	0.62 ± 0.57	0.64 ± 0.08	0.50 ± 0.20	0.41 ± 0.08	0.81 ± 1.18	0.46 ± 0.35	0.53 ± 0.22	0.54 ± 0.26
1981-82	0.67 ± 0.30	0.64 ± 0.76	0.50 ± 0.08	0.43 ± 0.06	0.54 ± 0.43	0.52 ± 0.23	0.71 ± 0.36	0.57 ± 0.18
1982-83	1.29 ± 1.07	0.60 ± 0.08	0.98 ± 0.96	0.56 ± 0.07	0.53 ± 0.25	0.56 ± 0.73	0.74 ± 0.40	0.66 ± 0.29
1983-84	0.65 ± 0.08	0.77 ± 0.09	0.62 ± 0.05	0.45	0.53	0.76	1.00 ± 0.03	0.74 ± 0.12
1984-85	1.01 ± 0.39	0.81 ± 0.08	0.80 ± 0.11	0.89 ± 0.10	0.65 ± 0.04	0.62 ± 0.01	0.73 ± 0.04	0.75 ± 0.08
1985-86	1.31 ± 0.11	0.68 ± 0.07	0.64 ± 0.07	0.62 ± 0.03	0.64 ± 0.03	0.70 ± 0.04	0.84 ± 0.04	0.74 ± 0.05
All species combined <sup>a</sup>								
1974-76	0.44 ± 1.30	0.63 ± 0.26	0.48 ± 0.69	0.43 ± 0.19	0.49 ± 0.85	0.68 ± 0.58	0.68 ± 0.56	0.53 ± 0.39
1976-77	0.84 ± 1.02	0.60 ± 0.40	3.49 ± 7.78	0.56 ± 0.42	0.61 ± 1.67	0.82 ± 1.04	1.06 ± 3.92	0.97 ± 1.35
1977-78	0.67 ± 1.34	0.82 ± 1.98	0.66 ± 0.44	0.62 ± 0.12	1.39 ± 4.32	0.59 ± 0.39	1.28 ± 3.41	0.85 ± 0.86
1978-79	2.02 ± 23.58	0.51 ± 0.58	0.97 ± 2.02	0.56 ± 0.31	0.82 ± 0.68	0.78 ± 1.02	1.90 ± 8.05	1.35 ± 4.38
1979-80	0.31 ± 0.72	0.54 ± 0.53	1.00 ± 3.04	0.54 ± 0.15	1.13 ± 3.86	0.51 ± 0.24	0.54 ± 0.90	0.71 ± 0.83
1980-81	1.32 ± 2.85	0.44 ± 1.50	0.68 ± 0.66	0.41 ± 0.26	0.69 ± 1.21	0.48 ± 0.36	0.58 ± 0.49	0.62 ± 0.36
1981-82	0.65 ± 0.37	0.44 ± 0.64	0.80 ± 1.23	0.72 ± 0.59	0.52 ± 0.42	0.58 ± 0.33	0.98 ± 1.40	0.70 ± 0.45
1982-83	0.52 ± 0.12	0.76 ± 0.16	1.19 ± 0.79	0.85 ± 0.88	1.09 ± 3.91	0.69 ± 0.79	0.78 ± 0.36	0.89 ± 0.85
1983-84	2.43 ± 1.16	1.13 ± 0.23	1.19 ± 0.10	0.48 ± 0.22	1.22 ± 0.14	0.84 ± 0.09	1.87 ± 1.11	1.60 ± 0.63
1984-85	2.07 ± 0.52	1.31 ± 0.48	0.83 ± 0.09	1.00 ± 0.09	0.71 ± 0.08	0.58 ± 0.09	2.48 ± 1.58	1.67 ± 0.77
1985-86	2.99 ± 0.61	1.81 ± 0.85	0.80 ± 0.10	0.76 ± 0.13	0.81 ± 0.04	0.75 ± 0.05	0.90 ± 0.06	1.23 ± 0.23

<sup>a</sup>Includes "other" species.

Table D.18. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekdays by species and bay systems (1974-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Bay system						
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre
<b>Atlantic croaker</b>							
1974-76	0.21 $\pm$ 0.03		0.31 $\pm$ 0.03		0.31 $\pm$ <.01	0.24 $\pm$ <.01	0.34 $\pm$ <.01
1976-77							
1977-78							
1978-79		0.12 $\pm$ <.01		0.45 $\pm$ <.01	0.24 $\pm$ 0.01	0.07 $\pm$ <.01	0.52 $\pm$ 0.30
1979-80	0.20 $\pm$ 0.12				0.29 $\pm$ 0.08	0.24 $\pm$ 0.02	0.34 $\pm$ 0.08
1980-81	0.25 $\pm$ 0.06				0.15 $\pm$ 0.10	0.33 $\pm$ 0.05	0.25 $\pm$ 0.03
1981-82	0.17 $\pm$ 0.02	0.15 $\pm$ 0.16		0.27 $\pm$ 0.02	0.24 $\pm$ 0.05	0.31	0.29
1982-83	0.08			0.33			0.20 $\pm$ 0.12
1983-84	0.14	0.19		0.18 $\pm$ 0.04	0.15	0.23 $\pm$ 0.05	0.14 $\pm$ 0.01
1984-85							0.19 $\pm$ 0.07
1985-86							
<b>Black drum</b>							
1974-76	0.49 $\pm$ 0.48		0.51 $\pm$ 0.79	1.00 $\pm$ 0.09	6.64 $\pm$ 7.16		12.13 $\pm$ 3.72
1976-77							
1977-78							
1978-79							
1979-80	0.61 $\pm$ 0.80	0.42 $\pm$ 0.32	0.58 $\pm$ 0.05		0.84 $\pm$ 0.21	1.79 $\pm$ <.01	1.58 $\pm$ 1.46
1980-81	7.26 $\pm$ 5.63	0.46 $\pm$ 0.37	15.58		0.54 $\pm$ 0.41	0.20 $\pm$ <.01	4.34 $\pm$ 6.87
1981-82	0.43 $\pm$ 0.81	0.86 $\pm$ 0.37	0.31 $\pm$ 0.16	0.58 $\pm$ 0.35	2.45 $\pm$ 2.22	0.80 $\pm$ 0.50	0.56 $\pm$ 0.55
1982-83	6.64 $\pm$ 3.83	0.55 $\pm$ 1.27	4.55 $\pm$ 6.80	0.61 $\pm$ 0.26	1.32 $\pm$ 0.42	1.32 $\pm$ 0.42	2.83 $\pm$ 2.59
1983-84	1.83 $\pm$ 0.75	1.89 $\pm$ 1.48	0.83 $\pm$ 0.18	1.36 $\pm$ 0.44	1.24 $\pm$ 0.38	1.76 $\pm$ 0.05	1.34 $\pm$ 0.54
1984-85	5.88 $\pm$ 0.75	1.26 $\pm$ 0.56	0.42 $\pm$ 0.20	0.62 $\pm$ 0.08	0.54	0.87	1.73 $\pm$ 0.47
1985-86	2.75	2.70 $\pm$ 1.71		1.04 $\pm$ 0.21	8.77 $\pm$ 3.24	0.77	5.87 $\pm$ 2.22
<b>Gafftopsail catfish</b>							
1974-76	0.88 $\pm$ <.01		0.90 $\pm$ <.01	1.41 $\pm$ <.01			1.34 $\pm$ 0.26
1976-77							
1977-78							
1978-79							
1979-80	1.62 $\pm$ 1.02	1.28 $\pm$ <.01			1.72 $\pm$ <.01	0.15 $\pm$ <.01	1.72 $\pm$ <.01
1980-81		1.09 $\pm$ <.01			1.15 $\pm$ <.01		1.46 $\pm$ 0.93
1981-82	2.05	2.23 $\pm$ 0.16	0.96 $\pm$ 0.32	1.69 $\pm$ 0.04	1.18 $\pm$ 0.87		1.34 $\pm$ 0.45
1982-83		1.10		1.01 $\pm$ 0.03	1.38 $\pm$ 1.10		1.30 $\pm$ 0.71
1983-84				1.83			1.05 $\pm$ 0.53
1984-85	0.53			0.88		0.88	0.87 $\pm$ 0.87
1985-86				1.62		1.41	1.26 $\pm$ 1.26

Table D.18. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Red drum</b>								
1974-76	0.76 ± 0.17		1.03 ± 0.51	0.79 ± 0.32	0.71 ± 0.15	0.74 ± 0.06	1.21 ± 0.24	0.94 ± 0.27
1976-77								
1977-78								
1978-79								
1979-80	0.68 ± <.01	0.60 ± <.01	0.58 ± 0.05	0.58 ± 0.05	0.95 ± 0.56	0.88 ± 0.23	0.76 ± 0.44	1.58 ± 1.46
1980-81	0.83 ± 0.20	0.52 ± 0.19	2.65 ± <.01		1.16 ± 0.46	0.70 ± 0.18		1.00 ± 0.21
1981-82	0.98 ± 0.08	2.79 ± 1.37	0.57 ± 0.21	0.52 ± 0.21	1.23 ± 0.36	1.06 ± 0.19	0.91 ± 0.31	1.02 ± 0.19
1982-83	0.85	1.61 ± 0.17	1.49 ± 0.20	2.35 ± 1.15	1.61 ± 0.38	1.23 ± 0.34	0.85 ± 0.50	1.20 ± 0.39
1983-84	1.86 ± 0.61	1.90 ± 0.09	1.35 ± 0.20	1.68 ± 0.05	1.74 ± 0.18	2.01 ± 0.38	1.74 ± 0.14	1.78 ± 0.25
1984-85	1.60 ± 0.27	1.78 ± 0.42	1.53 ± 0.18	1.83 ± 0.10	1.10 ± 0.35	1.28	1.78 ± 0.16	1.59 ± 0.26
1985-86	2.26 ± 0.83	2.10 ± 0.18	2.34 ± 0.32	2.22 ± 0.24	2.03 ± 0.22	2.49 ± 0.13	2.30 ± 0.11	2.21 ± 0.21
<b>Sand seatrout</b>								
1974-76	0.25 ± 0.09		0.37 ± <.01	0.24 ± 0.10	0.24 ± 0.09	0.22 ± <.01		0.27 ± 0.13
1976-77								
1977-78								
1978-79								
1979-80	0.38 ± <.01				0.29 ± <.01	0.45 ± <.01	0.38 ± <.01	0.30 ± 0.06
1980-81	0.40 ± 0.11				0.33 ± 0.05	0.34 ± 0.16	0.31 ± 0.04	0.33 ± 0.03
1981-82	0.34 ± 0.03	0.19 ± <.01	0.25 ± 0.00	0.29 ± 0.03	0.30 ± 0.08	0.85 ± 0.05	0.31 ± 0.03	0.30 ± 0.04
1982-83	0.39	0.50	0.22 ± 0.02	0.25	0.28 ± 0.10	0.51	0.34 ± 0.04	0.27 ± 0.06
1983-84	0.43	0.36		0.19 ± 0.03	0.55 ± 0.13	0.40 ± 0.02	0.22 ± 0.06	0.39 ± 0.31
1984-85	0.31 ± 0.04	0.24		0.36 ± <.01	0.22 ± 0.01	0.35 ± <.01	0.30 ± <.01	0.33 ± 0.04
1985-86		0.36						0.24 ± 0.02
<b>Sheepshead</b>								
1974-76	0.55 ± 0.15		1.01 ± 0.43	0.55 ± 0.40	0.56 ± <.01	1.52 ± 0.32	0.85 ± <.01	0.72 ± 0.40
1976-77								
1977-78								
1978-79								
1979-80	0.83 ± 0.01		0.84 ± 0.16	0.55 ± <.01	0.83 ± <.01	0.82 ± <.01	0.59 ± 0.55	0.62 ± 0.22
1980-81	1.18 ± 0.30	0.42 ± 0.18		0.58 ± 0.14	0.74 ± 0.26	1.33 ± 0.24	1.00 ± 0.17	0.77 ± 0.24
1981-82	1.21 ± 0.14	0.98 ± 0.46	0.25 ± <.01	0.80 ± 0.19	0.62 ± 0.27	1.43 ± 0.58	0.67 ± 0.30	0.68 ± 0.16
1982-83	1.20 ± 0.65	0.50 ± 0.18	0.85 ± 0.31	0.85 ± 0.34	1.00 ± 0.24	1.34 ± 0.11	0.59 ± 0.47	0.86 ± 0.36
1983-84	1.01	0.49 ± 0.03	1.06 ± 0.03	1.12 ± 0.04	0.91 ± 0.34	1.52 ± 0.23	0.63 ± 0.03	0.83 ± 0.10
1984-85	0.23	0.86 ± 0.10		1.05 ± 0.02	1.00	1.01	0.82 ± 0.11	1.02 ± 0.05
1985-86	1.07 ± 0.03	1.13 ± 0.09	1.01	1.05 ± 0.07	0.96 ± 0.42	1.85 ± 0.21	0.65 ± 0.01	1.03 ± 0.08

Table D.18. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
Southern flounder										
1974-76	0.67 ± 0.11	0.34 ± <.01	0.83 ± 0.36	0.45 ± 0.09	0.31 ± 0.02	0.86 ± 0.18	0.34 ± <.01	0.60 ± 0.09		
1976-77										
1977-78										
1978-79	0.42 ± <.01		0.72 ± 0.07		0.43 ± 0.14	0.93 ± 0.19	0.62 ± <.01	0.53 ± 0.12		
1979-80	0.55 ± 0.24		0.45 ± <.01	0.38 ± 0.12	0.67 ± 0.20	0.81 ± 0.01	0.49 ± 0.07	0.62 ± 0.10		
1980-81	0.59 ± 0.06	0.50 ± 0.22	0.54 ± 0.08	0.48 ± 0.08	0.65 ± 0.15	0.48 ± 0.05	0.55 ± 0.16	0.55 ± 0.06		
1981-82	0.37 ± 0.19	0.37 ± 0.10	0.89 ± 0.19	0.52 ± 0.08	0.41 ± 0.08	0.77 ± 0.12	0.64 ± 0.19	0.69 ± 0.15		
1982-83	0.56 ± 0.10	0.45 ± 0.08	0.59 ± 0.12	0.35 ± 0.01	0.26 ± 0.01	0.99 ± 0.17	0.60 ± 0.05	0.55 ± 0.09		
1983-84	0.54 ± 0.04	0.46 ± 0.14	0.38 ± 0.06	0.35 ± 0.05	0.58 ± 0.07	0.47	0.32 ± 0.02	0.50 ± 0.04		
1984-85	0.40 ± 0.01	0.33 ± 0.07	0.56	0.51 ± 0.04	0.43 ± 0.05	0.72 ± 0.04	0.54 ± 0.07	0.48 ± 0.05		
1985-86										
Spotted seatrout										
1974-76	0.77 ± 0.84	0.78 ± <.01	0.48 ± 0.34	0.32 ± 0.09	0.41 ± 0.20	0.52 ± 0.25	0.83 ± 0.32	0.50 ± 0.23		
1976-77										
1977-78										
1978-79	0.46 ± <.01	4.96 ± 11.31	0.42 ± 0.19	0.44 ± 0.14	0.43 ± 0.03	0.71 ± 0.20	0.36 ± 0.02	0.50 ± 0.30		
1979-80	0.86 ± 0.28	0.51 ± <.01	0.40 ± 0.21	0.35 ± 0.05	0.61 ± 0.38	0.50 ± 0.24	0.52 ± 0.30	0.57 ± 0.26		
1980-81	0.62 ± 0.18	0.60 ± 0.70	0.57 ± 0.21	0.52 ± 0.21	0.53 ± 0.30	0.49 ± 0.09	0.60 ± 0.26	0.54 ± 0.10		
1981-82	0.71 ± 0.20	0.64 ± 0.31	0.64 ± 0.20	0.54 ± 0.27	0.65 ± 0.21	0.58 ± 0.21	0.62 ± 0.36	0.62 ± 0.12		
1982-83	1.00 ± 0.15	0.52 ± 0.13	0.56	0.46 ± 0.01	0.67 ± 0.06	0.82 ± 0.17	0.61 ± 0.05	0.81 ± 0.11		
1983-84	0.98 ± 0.05	0.82 ± 0.05	0.81 ± 0.02	0.69 ± 0.02	0.63 ± 0.02	0.59 ± 0.03	0.68 ± 0.04	0.74 ± 0.03		
1984-85	1.70 ± 0.17	0.17 ± 0.07	0.54 ± 0.16	0.69 ± 0.06	0.71 ± 0.02	0.66 ± 0.07	0.83 ± 0.06	0.73 ± 0.06		
1985-86										
All species combined <sup>a</sup>										
1974-76	0.38 ± 0.71	0.76 ± <.01	0.56 ± 0.50	0.45 ± 0.51	0.92 ± 0.64	0.49 ± 0.48	1.92 ± 3.51	0.58 ± 0.41		
1976-77										
1977-78										
1978-79	0.55 ± 0.14	1.69 ± 1.94	0.52 ± 0.72	0.54 ± 0.07	0.56 ± 1.92	0.88 ± 1.05	0.44 ± 0.32	0.59 ± 0.43		
1979-80	2.40 ± 8.23	0.71 ± 1.26	0.80 ± 2.75	0.49 ± 0.26	0.66 ± 0.14	0.55 ± 0.26	0.58 ± 0.29	1.00 ± 2.01		
1980-81	0.56 ± 0.28	0.80 ± 0.60	0.56 ± 0.35	0.60 ± 0.32	0.53 ± 0.26	0.54 ± 0.21	0.66 ± 0.31	0.58 ± 0.13		
1981-82	2.68 ± 5.11	0.65 ± 0.73	1.23 ± 2.69	0.74 ± 0.48	0.68 ± 1.07	0.66 ± 0.23	0.62 ± 0.43	0.82 ± 0.67		
1982-83	0.71 ± 0.18	0.77 ± 0.24	0.93 ± 0.05	1.00 ± 0.11	1.13 ± 0.26	1.19 ± 0.13	0.68 ± 0.06	0.86 ± 0.15		
1983-84	1.06 ± 0.37	1.11 ± 0.22	1.05 ± 0.12	0.96 ± 0.10	0.76 ± 0.01	0.51 ± 0.06	0.69 ± 0.14	0.92 ± 0.19		
1984-85	0.84 ± 0.09	1.14 ± 0.15	1.09 ± 0.38	0.82 ± 0.05	0.92 ± 0.45	0.59 ± 0.08	0.96 ± 0.12	0.87 ± 0.25		
1985-86										

<sup>a</sup>Includes "other" species.

Table D.19. Annual mean total lengths of fishes (mm/fish) ± 1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
1983-84	254 ± 9	234 ± 4	231 ± 6	295 ± 6	281 ± 5	289 ± 3	265 ± 6	266 ± 7
1984-85	235 ± 5	216 ± 7	219 ± 16	258 ± 8	249 ± 7	242 ± 15	235 ± 6	235 ± 5
1985-86	230 ± 6	227 ± 6	252 ± 18	260 ± 5	238 ± 3	261 ± 3	228 ± 4	234 ± 6
Black drum								
1983-84	454 ± 53	362 ± 18	378 ± 8	382 ± 13	383 ± 12	408 ± 17	365 ± 32	400 ± 29
1984-85	459 ± 27	430 ± 57	295 ± 19	354 ± 18	372 ± 12	353 ± 20	370 ± 50	422 ± 35
1985-86	544 ± 108	503 ± 112	345 ± 56	380 ± 12	473 ± 77	369 ± 11	336 ± 35	473 ± 78
Gafftopsail catfish								
1983-84	416 ± 23	471 ± 18	499 ± 17	472 ± 15	517 ± 9	488 ± 23	439 ± 19	480 ± 15
1984-85	455 ± 18	491 ± 15	480 ± 26	434 ± 46	521 ± 17	338 ± 5	247 ± 33	470 ± 23
1985-86	456 ± 22	319 ± 3	443 ± 13	533 ± 19	450 ± 36	530	312 ± 33	477 ± 23
Red drum								
1983-84	536 ± 22	513 ± 7	501 ± 7	497 ± 7	490 ± 9	516 ± 7	510 ± 7	509 ± 9
1984-85	555 ± 13	572 ± 10	533 ± 11	528 ± 11	524 ± 10	537 ± 13	563 ± 6	546 ± 10
1985-86	567 ± 19	562 ± 9	543 ± 6	544 ± 5	531 ± 6	537 ± 3	553 ± 5	548 ± 7
Sand seatrout								
1983-84	281 ± 4	287 ± 10	291 ± 11	287 ± 8	304 ± 7	317 ± 4	298 ± 6	290 ± 6
1984-85	272 ± 8	284 ± 5	296 ± 13	281 ± 4	276 ± 5	292 ± 5	288 ± 4	275 ± 7
1985-86	276 ± 4	266 ± 5	280 ± 6	283 ± 9	249 ± 5	298 ± 7	286 ± 4	278 ± 5
Sheepshead								
1983-84	346 ± 4	344 ± 9	384 ± 6	378 ± 12	356 ± 10	391 ± 7	343 ± 6	354 ± 7
1984-85	354 ± 4	357 ± 5	390 ± 7	387 ± 4	390 ± 8	411 ± 14	348 ± 8	368 ± 5
1985-86	380 ± 7	367 ± 11	376 ± 30	396 ± 12	397 ± 11	471 ± 9	353 ± 14	385 ± 12
Southern flounder								
1983-84	350 ± 5	364 ± 8	372 ± 8	345 ± 6	350 ± 5	387 ± 6	385 ± 6	356 ± 6
1984-85	356 ± 5	360 ± 6	373 ± 6	341 ± 6	348 ± 7	361 ± 17	326 ± 10	352 ± 6
1985-86	352 ± 7	340 ± 6	377 ± 19	357 ± 5	342 ± 7	364 ± 2	361 ± 4	354 ± 6
Spotted seatrout								
1983-84	435 ± 8	397 ± 6	388 ± 4	369 ± 4	390 ± 5	399 ± 3	401 ± 4	402 ± 5
1984-85	449 ± 6	418 ± 7	417 ± 6	432 ± 11	418 ± 8	399 ± 3	405 ± 3	424 ± 6
1985-86	437 ± 8	416 ± 4	408 ± 4	404 ± 3	408 ± 3	405 ± 3	422 ± 3	417 ± 4
All species combined <sup>a</sup>								
1983-84	370 ± 8	400 ± 6	411 ± 5	350 ± 8	348 ± 8	391 ± 4	407 ± 5	377 ± 7
1984-85	316 ± 10	406 ± 10	428 ± 12	362 ± 13	370 ± 9	354 ± 13	409 ± 7	349 ± 10
1985-86	342 ± 15	395 ± 11	408 ± 6	391 ± 7	372 ± 12	394 ± 7	417 ± 5	374 ± 11

<sup>a</sup>Includes "other" species.



Table D.20. Mean total length of fishes (mm/fish) + 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Bay system										Coastwide		
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre						
<b>Atlantic croaker</b>													
1983													
Weekend	248 ± 13	233 ± 4	231 ± 9	287 ± 8	250 ± 2	290 ± 3	268 ± 8	258 ± 9					
Weekday	259 ± 11	238 ± 9	232 ± 6	300 ± 7	288 ± 4	286 ± 5	259 ± 6	268 ± 9					
1984													
Weekend	228 ± 4	210 ± 11	218 ± 19	258 ± 5	234 ± 7	241 ± 22	244 ± 9	228 ± 4					
Weekday	248 ± 8	228 ± 5	239 ± 59	258 ± 16	251 ± 8	245 ± 6	213 ± 9	247 ± 8					
1985													
Weekend	241 ± 6	229 ± 10	227 ± 9	268 ± 18	233 ± 10	265 ± 4	227 ± 6	242 ± 6					
Weekday	217 ± 8	225 ± 6	309 ± 23	263 ± 5	238 ± 3	258 ± 6	229 ± 6	224 ± 7					
<b>Black drum</b>													
1983													
Weekend	388 ± 26	326 ± 14	377 ± 10	372 ± 20	354 ± 5	409 ± 19	435 ± 18	362 ± 16					
Weekday	377 ± 30	362 ± 19	383 ± 17	387 ± 13	385 ± 24	372 ± 15	391 ± 49	374 ± 24					
1984													
Weekend	396 ± 27	340 ± 14	349 ± 28	405	396 ± 6	298 ± 24	443 ± 30	390 ± 25					
Weekday	475 ± 25	341 ± 20	376 ± 28	403 ± 52	327 ± 20	363 ± 40	344 ± 64	414 ± 24					
1985													
Weekend	331 ± 16	345 ± 17	474 ± 80	417 ± 41	357 ± 20	362 ± 15	305 ± 24	347 ± 17					
Weekday	319 ± 16	356 ± 25	375 ± 33	362 ± 10	364 ± 17	357 ± 11	306 ± 76	339 ± 19					
<b>Gafftopsail catfish</b>													
1983													
Weekend	338	465 ± 19	473 ± 8	460 ± 11	574 ± 12	480 ± 23	439 ± 19	467 ± 46					
Weekday	421 ± 22	446 ± 16	487 ± 27	484 ± 29	523 ± 15	560	560	489 ± 20					
1984													
Weekend	471 ± 33	483 ± 17	499 ± 20	352 ± 74	559 ± 13	305	305	462 ± 32					
Weekday	455 ± 26	510 ± 31	423 ± 5	484 ± 34	513 ± 11	341	341	472 ± 37					
1985													
Weekend	350 ± 6	472 ± 13	444 ± 21	532 ± 24	471 ± 49	471 ± 49	471 ± 49	416 ± 13					
Weekday	497 ± 22	463 ± 18	442 ± 12	536 ± 37	406 ± 23	406 ± 23	406 ± 23	487 ± 25					
<b>Red drum</b>													
1983													
Weekend	582 ± 38	493 ± 10	485 ± 7	489 ± 8	463 ± 8	511 ± 8	508 ± 11	498 ± 10					
Weekday	498 ± 19	512 ± 12	506 ± 8	501 ± 12	501 ± 12	522 ± 10	513 ± 8	507 ± 10					
1984													
Weekend	520 ± 17	592 ± 9	578 ± 17	512 ± 18	549 ± 12	549 ± 17	566 ± 8	541 ± 10					
Weekday	588 ± 15	574 ± 12	567 ± 9	541 ± 16	523 ± 10	544 ± 21	573 ± 11	558 ± 11					
1985													
Weekend	570 ± 31	559 ± 17	545 ± 10	532 ± 4	526 ± 8	532 ± 3	544 ± 6	542 ± 11					
Weekday	570 ± 23	562 ± 12	536 ± 8	549 ± 9	528 ± 10	546 ± 6	555 ± 10	550 ± 12					

Table D.20. (Cont'd.)

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
Sand seatrout											
1983											
Weekend	278 ± 5	280 ± 9	289 ± 16	282 ± 13	312 ± 10	321 ± 3	297 ± 10	293 ± 8			
Weekday	288 ± 10	292 ± 18	294 ± 6	290 ± 7	295 ± 6	380 ± 8	298 ± 3	291 ± 9			
1984											
Weekend	265 ± 11	281 ± 7	278 ± 8	275 ± 2	271 ± 7	285 ± 6	296 ± 9	268 ± 10			
Weekday	284 ± 5	287 ± 8	297 ± 2	293 ± 10	282 ± 8	294 ± 18	280 ± 4	284 ± 5			
1985											
Weekend	278 ± 4	259 ± 5	274 ± 7	266 ± 17	264 ± 12	298 ± 12	292 ± 6	276 ± 5			
Weekday	269 ± 14	275 ± 6	281 ± 8	267 ± 7	281 ± 7	282 ± 8	277 ± 7	272 ± 10			
Sheepshead											
1983											
Weekend	350 ± 6	345 ± 10	380 ± 8	380 ± 8	371 ± 18	397 ± 7	354 ± 13	358 ± 7			
Weekday	339 ± 6	368 ± 11	396 ± 12	349 ± 6	351 ± 11	382 ± 11	352 ± 6	349 ± 7			
1984											
Weekend	353 ± 6	356 ± 9	375 ± 5	351 ± 8	385 ± 25	433 ± 23	365 ± 11	355 ± 7			
Weekday	354 ± 4	348 ± 10	394 ± 9	339 ± 25	389 ± 14	445 ± 22	353 ± 14	355 ± 7			
1985											
Weekend	380 ± 12	346 ± 24	389 ± 25	422 ± 21	414 ± 4	453 ± 10	388 ± 15	383 ± 14			
Weekday	370 ± 9	377 ± 12	435 ± 6	360 ± 13	389 ± 15	449 ± 54	343 ± 30	384 ± 10			
Southern flounder											
1983											
Weekend	346 ± 6	377 ± 10	368 ± 12	361 ± 11	341 ± 14	390 ± 9	382 ± 5	359 ± 8			
Weekday	354 ± 9	341 ± 7	383 ± 10	338 ± 3	353 ± 6	380 ± 8	390 ± 13	356 ± 7			
1984											
Weekend	359 ± 7	359 ± 6	379 ± 6	340 ± 8	368 ± 12	368 ± 35	357 ± 19	359 ± 8			
Weekday	355 ± 9	363 ± 10	375 ± 8	349 ± 10	344 ± 8	392 ± 19	342 ± 19	353 ± 10			
1985											
Weekend	361 ± 8	335 ± 9	396 ± 37	360 ± 7	344 ± 7	362 ± 3	359 ± 4	359 ± 7			
Weekday	335 ± 10	352 ± 8	359 ± 8	356 ± 8	343 ± 9	352 ± 5	363 ± 9	348 ± 9			
Spotted seatrout											
1983											
Weekend	413 ± 12	398 ± 10	381 ± 5	367 ± 4	391 ± 7	396 ± 3	402 ± 5	394 ± 6			
Weekday	446 ± 7	392 ± 7	393 ± 6	374 ± 8	387 ± 7	403 ± 4	398 ± 6	404 ± 5			
1984											
Weekend	443 ± 8	433 ± 14	412 ± 8	419 ± 6	411 ± 14	394 ± 11	406 ± 5	426 ± 6			
Weekday	452 ± 8	391 ± 6	412 ± 10	445 ± 32	437 ± 10	414 ± 10	398 ± 4	430 ± 7			
1985											
Weekend	440 ± 14	419 ± 7	408 ± 5	403 ± 3	399 ± 2	401 ± 3	423 ± 4	418 ± 6			
Weekday	428 ± 9	412 ± 6	412 ± 7	404 ± 5	414 ± 5	406 ± 3	416 ± 6	418 ± 7			

Table D.20. (Cont'd.)

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
All species combined <sup>a</sup>											
1983											
Weekend	354 ± 13	393 ± 8	401 ± 6	359 ± 10	354 ± 7	384 ± 6	413 ± 7	372 ± 8			
Weekday	371 ± 9	397 ± 9	415 ± 8	340 ± 11	338 ± 11	401 ± 6	402 ± 5	373 ± 8			
1984											
Weekend	293 ± 10	408 ± 16	433 ± 19	336 ± 17	370 ± 18	329 ± 20	432 ± 8	321 ± 11			
Weekday	342 ± 9	390 ± 11	421 ± 18	350 ± 18	365 ± 13	418 ± 23	399 ± 10	356 ± 10			
1985											
Weekend	328 ± 18	378 ± 17	414 ± 8	418 ± 15	388 ± 11	402 ± 10	424 ± 6	364 ± 15			
Weekday	326 ± 18	405 ± 13	415 ± 6	375 ± 9	355 ± 17	374 ± 10	401 ± 9	356 ± 15			

<sup>a</sup>Includes "other" species.

Table D.21. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season by species, day type and bay system (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Bay system										Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Atlantic croaker												
1983-84				285								
Weekend	192 $\pm$ 24											275 $\pm$ 259
Weekday	186									288	282	191 $\pm$ 191
1984-85												
Weekend	216 $\pm$ 2	208 $\pm$ 7			260							224 $\pm$ 24
Weekday	221 $\pm$ <1			294								224 $\pm$ 12
1985-86												
Weekend	240 $\pm$ 1	223		247 $\pm$ 12	334							234 $\pm$ 92
Weekday		244		242 $\pm$ 13	230						241	244 $\pm$ 59
Black drum												
1983-84												
Weekend	693 $\pm$ 122	400 $\pm$ 73	369 $\pm$ 12	297	449							529 $\pm$ 116
Weekday	488 $\pm$ 79	422 $\pm$ 78	383 $\pm$ 26	426 $\pm$ 28	405 $\pm$ 21							413 $\pm$ 38
1984-85												
Weekend	638	669 $\pm$ 108	272 $\pm$ 28	340 $\pm$ 12	379 $\pm$ 23							514 $\pm$ 140
Weekday	715 $\pm$ 57	396 $\pm$ 77	297 $\pm$ 36		337							413 $\pm$ 55
1985-86												
Weekend	799 $\pm$ 13	739 $\pm$ 159	309 $\pm$ 64	457 $\pm$ 45	544 $\pm$ 25							639 $\pm$ 42
Weekday	581	506 $\pm$ 104	403 $\pm$ 35	403 $\pm$ 35	762 $\pm$ 161							626 $\pm$ 130
Gafftopsail catfish												
1983-84												
Weekend	490 $\pm$ 1	575	541 $\pm$ 6	468 $\pm$ 5	533							511 $\pm$ 32
Weekday		490										479 $\pm$ 235
1984-85												
Weekend		449 $\pm$ 28	450	575	457							450 $\pm$ 144
Weekday	388				455							430 $\pm$ 430
1985-86												
Weekend	439 $\pm$ 15	527		558	551							462 $\pm$ 147
Weekday				378						530		498 $\pm$ 498
Red drum												
1983-84												
Weekend	542 $\pm$ 28	552 $\pm$ 12	552 $\pm$ 18	514	558 $\pm$ 66							541 $\pm$ 20
Weekday	534 $\pm$ 58	556 $\pm$ 7	497 $\pm$ 18	540 $\pm$ 5	539 $\pm$ 17							541 $\pm$ 20
1984-85												
Weekend	617	550 $\pm$ 20	480 $\pm$ 10	555 $\pm$ 33	470 $\pm$ 44							514 $\pm$ 54
Weekday	523 $\pm$ 27	537 $\pm$ 39	515 $\pm$ 18	554 $\pm$ 9	460 $\pm$ 31							518 $\pm$ 32
1985-86												
Weekend	486 $\pm$ 11	600 $\pm$ 33	565 $\pm$ 32	585 $\pm$ 7	545 $\pm$ 19							572 $\pm$ 16
Weekday	575 $\pm$ 70	569 $\pm$ 19	596 $\pm$ 32	581 $\pm$ 21	568 $\pm$ 23							582 $\pm$ 20

Table D.21. (Cont'd.)

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
<b>Sand seatrout</b>											
1983-84											
Weekend	225	357 ± 1	327	359						335	230 ± 229
Weekday	342	317 ± 317		262 ± 15	360					316 ± 11	326 ± 243
1984-85											
Weekend		320 ± 17	338 ± 3		369 ± 28	352				289 ± 2	297 ± 24
Weekday	307 ± 15	283				332 ± 5				276 ± 22	312 ± 14
1985-86											
Weekend	289 ± 1	325	355	317 ± 2	314 ± 26	308 ± 11				312 ± 1	310 ± 8
Weekday		325		318 ± 1	270 ± 6	305 ± 7				304 ± 1	277 ± 7
<b>Sheepshead</b>											
1983-84											
Weekend	369 ± 5	353 ± 16	360 ± 23	471	335					361 ± 1	360 ± 26
Weekday	376	298 ± 6	393 ± 4	397 ± 5	363 ± 54	446 ± 26				323 ± 6	351 ± 30
1984-85											
Weekend	395	364 ± 9	416 ± 5	390 ± 20	442	394				332 ± 14	350 ± 31
Weekday	231	362 ± 14		388 ± 3	383	386				358 ± 15	384 ± 16
1985-86											
Weekend	394 ± 56	359 ± 5	345 ± 51	440 ± 26	400 ± 13	494 ± 5				367	412 ± 29
Weekday	390 ± 5	399 ± 14	389	383 ± 10	362 ± 61	476 ± 19				331 ± 2	381 ± 13
<b>Southern flounder</b>											
1983-84											
Weekend	348 ± 29	383 ± 66	355 ± 8	371	354					390	363 ± 84
Weekday	360 ± 22	336 ± 17	367 ± 27	314 ± 3	287 ± 1	427 ± 28				372 ± 9	354 ± 19
1984-85											
Weekend	326 ± 4	331 ± 22	353 ± 22	332 ± 11	340 ± 5	326 ± 10				331 ± 8	328 ± 6
Weekday	355 ± 7	331 ± 35	316 ± 13	309 ± 15	363 ± 13	344				299 ± 4	343 ± 9
1985-86											
Weekend	326 ± 9	323 ± 22	357 ± 4	355 ± 13	365 ± 7	378 ± 3				373 ± 12	364 ± 10
Weekday	322 ± 1	295 ± 19	362	346 ± 8	325 ± 14	386 ± 6				349 ± 14	338 ± 13
<b>Spotted seatrout</b>											
1983-84											
Weekend	407 ± 14	420 ± 13	395 ± 11	361	386					451 ± 5	417 ± 33
Weekday	458 ± 26	374 ± 31	388	362 ± 3	410 ± 10	430 ± 23				391 ± 11	428 ± 23
1984-85											
Weekend	463 ± 60	436 ± 13	433 ± 20	443 ± 16	405 ± 6	398 ± 2				420 ± 9	422 ± 12
Weekday	441 ± 4	438 ± 8	439 ± 5	414 ± 3	398 ± 5	396 ± 5				411 ± 6	418 ± 5
1985-86											
Weekend	507 ± 12	411 ± 12	404 ± 15	401 ± 5	404 ± 6	412 ± 7				431 ± 6	419 ± 8
Weekday	550 ± 20	417 ± 12	377 ± 36	413 ± 10	416 ± 5	406 ± 13				431 ± 8	417 ± 9

Table D.21. (Cont'd.)

Species Year	Bay system										Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
All species combined <sup>a</sup>												
1983-84												
Weekend	463 ± 75	436 ± 17	452 ± 13	321 ± 43	432 ± 25	418 ± 26	424 ± 31					434 ± 44
Weekday	416 ± 28	384 ± 37	429 ± 6	385 ± 8	432 ± 19	457 ± 16	384 ± 15					405 ± 23
1984-85												
Weekend	489 ± 53	434 ± 38	413 ± 18	418 ± 12	402 ± 12	376 ± 17	388 ± 21					416 ± 26
Weekday	381 ± 25	412 ± 26	447 ± 22	404 ± 5	366 ± 25	362 ± 10	384 ± 19					391 ± 17
1985-86												
Weekend	490 ± 30	414 ± 55	388 ± 14	389 ± 19	419 ± 8	409 ± 12	429 ± 8					421 ± 19
Weekday	409 ± 21	447 ± 21	447 ± 49	388 ± 12	371 ± 42	366 ± 28	419 ± 16					394 ± 25

<sup>a</sup>Includes "other" species.

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Table D.22 Percent composition of "mother" species caught by private-boat fishermen in Texas bays and passes by bay system, season and day type (1983-1986).

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide	
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
1983-84	High use	Weekend	African pompano	<u>Alectis alais</u>	0.33								0.06
			Alligator gar	<u>Lepisosteus spatula</u>						16.16			2.01
			Atlantic cutlassfish	<u>Trichiurus lepturus</u>				2.55					0.44
			Atlantic spadefish	<u>Chaetodipterus faber</u>	5.94								1.13
			Bighead searobin	<u>Prionotus tribulus</u>		0.27							0.06
			Blue catfish	<u>Ictalurus furcatus</u>	9.90	16.00							3.76
			Blue runner	<u>Pomatomus saltatrix</u>		1.07		0.72	1.82				2.51
			Bony fishes sp.	<u>Caranx crysos</u>		0.27		0.72	0.36				0.13
			Channel catfish	Class Osteichthyes		0.27							0.06
			Cobia	<u>Ictalurus punctatus</u>		0.80							0.19
			Common carp	<u>Rachycentrum canadum</u>		0.27							0.06
			Crevalle Jack	<u>Cyprinus carpio</u>		1.30	3.20	0.72		0.87	1.01	1.01	0.13
			Florida pompano	<u>Caranx hippos</u>	0.99		1.87			1.31			0.94
			Gray triggerfish	<u>Trachinotus carolinus</u>			0.80	0.72					0.25
			Gulf flounder	<u>Balistes capriciscus</u>			0.27	11.51	4.74	3.06	3.03		2.70
			Gulf kingfish	<u>Paralichthys albigutta</u>			12.27	2.88	0.73				5.71
			Gulf toadfish	<u>Menticirrhus littoralis</u>	6.93				0.36				0.13
			Hardhead catfish	<u>Opsanus beta</u>	16.17		9.60		6.20	0.44	4.55		7.08
			Jacks sp.	<u>Arius felis</u>	0.33								0.06
			King mackerel	Family Carangidae			0.27		0.36		2.53		0.44
			Ladyfish	<u>Scomberomorus cavalla</u>					1.09	2.18			0.63
			Needlefish sp.	<u>Elops saurus</u>				0.72					0.13
			Atlantic needlefish	Family Belonidae	0.66								0.13
			Permit	<u>Strongylura marina</u>				0.72		0.44			0.06
			Pigfish	<u>Trachinotus falcatus</u>	0.33								11.60
			Pinfish	<u>Orthopristis chrysoptera</u>	12.87		0.53	7.19	23.36	30.57			9.22
			Sawfishes sp.	<u>Lagodon rhomboides</u>	0.99		4.27	6.47	23.72	23.58			0.06
			Sharks sp.	Family Pristidae						0.44			
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	0.66		1.87		1.09				0.75

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
			Blacktip shark	<u>Carcharhinus limbatus</u>		18.18	4.00	0.72	0.36	1.52		2.13
			Bonnethead	<u>Sphyrna tiburo</u>		3.90	3.20		1.09			1.13
			Bull shark	<u>Carcharhinus leucas</u>		2.60						0.13
			Finetooth shark	<u>Carcharhinus isodon</u>			0.80					0.19
			Requiem sharks	Family <u>Carcharhinidae</u>				4.32				0.38
			Scalloped hammerhead	<u>Sphyrna lewini</u>			0.27	0.72	0.36			0.19
			Shrimp eel	<u>Opichthus gomesi</u>					0.73			0.13
			Silver perch	<u>Bairdiella chrysoura</u>	20.46			7.19	5.47	29.26		9.66
			Smooth puffer	<u>Lagocephalus laevigatus</u>				0.72				0.06
			Snake eels	Family <u>Opichthidae</u>				0.72				0.06
			Snappers sp.	Family <u>Lutjanidae</u>								
			Gray snapper	<u>Lutjanus griseus</u>							2.02	0.25
			Lane snapper	<u>Lutjanus synagris</u>							0.51	0.06
			Red snapper	<u>Lutjanus campechanus</u>	0.33	1.30	0.53	1.44			10.10	1.63
			Schoolmaster	<u>Lutjanus apodus</u>							0.51	0.06
			Snook	<u>Centropomus undecimalis</u>			0.27				3.03	0.44
			Southern kingfish	<u>Menticirrhus americanus</u>	13.20	36.36	30.40	41.73	24.82	7.86	51.01	26.77
			Spanish mackerel	<u>Scomberomorus maculatus</u>	5.28	7.79	5.60	0.72			1.01	2.88
			Speckled worm eel	<u>Myrophis punctatus</u>				8.63				0.75
			Spot	<u>Leiostomus xanthurus</u>	3.63							0.69
			Stingray sp.	Family <u>Dasyatidae</u>	0.66							0.13
			Atlantic stingray	<u>Dasyatis sabina</u>				0.72	0.36			0.13
			Southern stingray	<u>Dasyatis americana</u>			0.80					0.19
			Striped mullet	<u>Mugil cephalus</u>			0.53		0.36			0.19
			Tarpon	<u>Megalops atlanticus</u>								0.06
			Tripletail	<u>Lobotes surinamensis</u>		1.30						0.06
						1.30						
	Weekdays		Atlantic cutlassfish	<u>Trichiurus lepturus</u>					0.53	1.11		0.17
			Atlantic spadefish	<u>Chaetodipterus faber</u>							0.63	0.06
			Banded drum	<u>Larimus fasciatus</u>							0.63	0.06
			Bandtail puffer	<u>Sphoeroides spengleri</u>			0.29					0.06
			Barred grunt	<u>Conodon nobilis</u>			0.29					0.12
			Bighead searobin	<u>Prionotus tribulus</u>						1.11		0.06
			Black margate	<u>Anisotremus surinamensis</u>				0.26				0.06



Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system										
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide			
			Bluntnose jack	<u>Hemicarax amblyrhachus</u>						0.27					0.06
			Blue catfish	<u>Ictalurus furcatus</u>	2.94	8.47									0.81
			Bluefish	<u>Pomatomus saltatrix</u>	1.96	1.69	0.86			0.53					0.69
			Bluerunner	<u>Caranx crysos</u>			0.57								0.17
			Cobia	<u>Rachycentrum canadum</u>					0.26						0.06
			Crevalle jack	<u>Caranx hippos</u>	1.63	1.69	1.71		0.51	2.22	1.27				1.04
			Finescale menhaden	<u>Brevoortia gunteri</u>		6.78									0.23
			Florida pompano	<u>Trachinotus carolinus</u>	0.33		1.71		0.26		0.63				0.52
			Gray triggerfish	<u>Balistes capriciscus</u>		3.39	0.86		0.77	1.33					0.75
			Greater amberjack	<u>Seriola dumerilli</u>			0.29								0.06
			Gulf flounder	<u>Paralichthys albigutta</u>				6.17		17.33	13.33	22.15			7.87
			Gulf kingfish	<u>Menticirrhus littoralis</u>	1.63		7.71		1.29	1.07					2.37
			Hardhead catfish	<u>Arius felis</u>	3.92		0.29		4.88	7.20	1.11	18.99			5.21
			Inshore lizardfish	<u>Synodus foetens</u>						0.80					0.17
			King mackerel	<u>Scomberomorus cavalla</u>			0.86			2.40	10.00	4.43			0.17
			Ladyfish	<u>Elops saurus</u>			1.17		0.77						1.97
			Orange filefish	<u>Aluterus schoepfi</u>						0.27					0.06
			Pigfish	<u>Orthopristis chrysoptera</u>	2.94	1.69	0.57		21.59	13.07	6.67	8.23			9.50
			Pinfish	<u>Logodon rhomboides</u>	0.65	1.69	2.86		12.34	28.00	55.56				12.51
			Sea basses sp.	Family Serranidae						0.53					0.12
			Rock hind	<u>Epinephelus adscensionis</u>					0.26			1.90			0.23
			Sharks sp.												
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>							1.11				0.29
			Blacktip shark	<u>Carcharhinus limbatus</u>	0.33	1.69	0.96		0.51	2.13					3.53
			Bonnethead	<u>Sphyrna tiburo</u>			6.29								1.27
			Bullshark	<u>Carcharhinus leucas</u>		1.69	0.86								0.23
			Finetooth shark	<u>Carcharhinus isodon</u>						0.27					0.06
			Scalloped hammerhead	<u>Sphyrna lewini</u>			0.57								0.17
			Silver perch	<u>Bairdiella chrysoura</u>	0.33	42.37	0.57		1.03	9.07	4.44				9.61
			Silver seatrout	<u>Cynoscion nothus</u>	31.70										3.53
			Snake eels sp.	Family Ophichthidae	19.93					0.80					0.17

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide					
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre						
			Snappers sp.	Family Lutjanidae	0.98												0.17
			Dog snapper	<u>Lutjanus jocu</u>						0.27							0.06
			Gray snapper	<u>Lutjanus griseus</u>				0.26		1.60				0.63			0.46
			Red snapper	<u>Lutjanus campechanus</u>				0.26		1.07							0.29
			Snook	<u>Centropomus undecimalis</u>						0.27				1.90			0.23
			Southern kingfish	<u>Menticirrhus americanus</u>	19.61	16.95	47.14	25.45		9.60	3.33		37.97				25.07
			Spanish mackerel	<u>Scomberomorus maculatus</u>	8.50	6.78	8.00	0.26		1.07			0.63				3.71
			Spot	<u>Leiostomus xanthurus</u>		5.08											0.35
			Stingrays sp.	Family Dasyatidae													
			Atlantic stingray	<u>Dasyatis sabina</u>	2.29												0.41
			Striped burrfish	<u>Chilomycterus schoepfi</u>			0.29										0.06
			Striped mullet	<u>Mugil curema</u>				21.85									4.92
			Tarpon	<u>Megalops atlanticus</u>			0.29										0.06
			Three-eyed flounder	<u>Ancylopussetta dilecta</u>				0.26									0.06
			Tripletail	<u>Lobotes surinamensis</u>													0.06
			White mullet	<u>Mugil curema</u>	0.33		0.29										0.06
Low use																	
Weekend			Gulf kingfish	<u>Menticirrhus littoralis</u>			1.92										0.90
			Hardhead catfish	<u>Arius felis</u>	50.00					33.33	86.67						22.81
			Pigfish	<u>Orthopristis chrysoptera</u>	8.33												1.80
			Silver perch	<u>Bairdiella chrysoura</u>	4.17												0.90
			Southern kingfish	<u>Menticirrhus americanus</u>	35.50		98.08			66.67	13.33	100.00					72.73
Weekday			Gulf flounder	<u>Paralichthys albigutta</u>										4.76			1.75
			Gulf kingfish	<u>Menticirrhus littoralis</u>										9.52			3.51
			Hardhead catfish	<u>Arius felis</u>		100.00				16.00							14.04
			Ladyfish	<u>Elops saurus</u>										4.76			1.75
			Sharks sp.														
			Bonnethead	<u>Sphyrna tiburo</u>			100.00										1.75
			Southern kingfish	<u>Menticirrhus americanus</u>				100.00		84.00			80.95				77.19

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system								
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
1984-85	High use	Weekend	Alligator gar	<u>Lepisosteus spatula</u>		0.57	0.37				15.53		2.72
			Atlantic cutlassfish	<u>Trichiurus lepturus</u>	0.52								0.16
			Atlantic spadefish	<u>Chaetodipterus faber</u>		4.55							0.64
			Bony fishes sp.	<u>Class Osteichthys</u>	0.26								0.08
			Blue catfish	<u>Ictalurus furcatus</u>	5.46		9.16	1.50					3.84
			Bluefish	<u>Pomatomus saltatrix</u>	2.60		0.73	0.75	2.27				0.96
			Blue runner	<u>Caranx crysos</u>					2.27		0.49		0.32
			Channel catfish	<u>Ictalurus punctatus</u>				0.75			8.74		1.52
			Cobia	<u>Rachycentrum canadum</u>	0.26						0.49		0.16
			Crevalle jack	<u>Caranx hippos</u>	0.78	1.14	2.93	0.75		1.89			1.20
			Dolphins sp.	Family <u>Coryphaenidae</u>									
			Pompano dolphin	<u>Coryphaena equisetis</u>			0.37						0.08
			Finescale menhaden	<u>Brevoortia gunteri</u>			0.73						0.16
			Florida pompano	<u>Trachinotus carolinus</u>			0.73				0.49		0.24
			Gray triggerfish	<u>Balistes capriscus</u>	0.26	6.25	0.37						1.03
			Gulf flounder	<u>Paralichthys albigutta</u>			1.10	14.29	11.36	5.66	0.49		2.11
			Gulf kingfish	<u>Menticirrhus littoralis</u>	0.78	0.57	6.96				0.97		2.00
			Gulf toadfish	<u>Opsanus beta</u>						9.43			0.40
			Hardhead catfish	<u>Aruis felis</u>	24.54	1.70	2.56	12.03		32.08	54.85		20.00
			King mackerel	<u>Scomberomorus cavalla</u>		0.57							0.08
			Ladyfish	<u>Elops saurus</u>	0.78	6.82	5.49		2.27	5.66	1.46		2.96
			Leatherjacket	<u>Oligoplites saurus</u>			0.37						0.08
			Ocellated flounder	<u>Ancylopsetta quadrocellata</u>	0.26								0.08
			Pigfish	<u>Orthopristis chrysoptera</u>	25.74	2.84		7.52	9.09	15.09	0.49		10.16
			Pinfish	<u>Lagodon rhomboides</u>	8.32	0.57		37.59	4.55	15.09			7.44
			Sea basses sp.	Family <u>Serranidae</u>									
			Jewfish	<u>Epinephelus itajara</u>			1.47						0.32
			Rock sea bass	<u>Centropristis philadelphica</u>			0.37						0.08
			Sharks sp.										
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>		7.95	6.23						2.48
			Blacktip shark	<u>Carcharhinus limbatus</u>	1.04	1.14	5.86	1.50	4.55				2.08

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system									
					Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
			Bonnethead	<u>Sphyrna tiburo</u>	11.36	10.99						4.85	4.80	
			Finetooth shark	<u>Carcharhinus isodon</u>	7.95	3.66							1.92	
			Great hammerhead	<u>Sphyrna mokarran</u>									0.08	
			Requiem sharks	Family <u>Carcharhinidae</u>									0.08	
			Sandbar shark	<u>Carcharhinus plumbeus</u>	0.57	0.37						0.49	0.16	
			Scalloped hammerhead	<u>Sphyrna lewini</u>		0.37							0.16	
			Smalleye hammerhead	<u>Sphyrna tudes</u>		0.37							0.08	
			Spinner shark	<u>Carcharhinus brevipinna</u>		2.56							0.56	
			Silver perch	<u>Bairdiella chrysoura</u>	1.70				9.09	3.77	1.46		5.28	
			Silver seatrout	<u>Cynoscion nothus</u>									0.24	
			Snappers sp.	Family <u>Lutjanidae</u>										
			Red snapper	<u>Lutjanus campechanus</u>	5.68	0.37		6.02			0.97		1.68	
			Southern kingfish	<u>Menticirrhus americanus</u>	33.52	24.54		5.26	47.73	11.32	7.77		17.84	
			Spanish mackerel	<u>Scomberomorus maculatus</u>	1.14	0.37		9.77			0.49		1.36	
			Spot	<u>Leiostomus xanthurus</u>									0.08	
			Stingrays sp.	Family <u>Dasyatidae</u>	0.26								0.08	
			Atlantic stingray	<u>Dasyatis sabina</u>		0.73							0.16	
			Southern stingray	<u>Dasyatis americana</u>	1.70								0.24	
			Striped mullet	<u>Mugil cephalus</u>		9.16		2.26	4.55				2.48	
			Tarpon	<u>Megalops atlanticus</u>	0.57				2.27				0.16	
			Tripletail	<u>Lobotes surinamensis</u>	1.14	0.37							0.24	
			Alligator gar	<u>Lepisosteus spatula</u>	1.47						0.94		0.30	
			Atlantic cutlassfish	<u>Trichiurus lepturus</u>					2.14				1.18	
			Atlantic spadefish	<u>Chaetodipterus faber</u>	4.65								0.44	
			Bighead searobin	<u>Prionotus tribulus</u>									0.15	
			Blue catfish	<u>Ictalurus furcatus</u>	7.35								0.74	
			Bluefish	<u>Pomatomus saltatrix</u>									0.15	
			Blue runner	<u>Caranx crysos</u>					5.00				1.03	
			Cobia	<u>Rachycentrum canadum</u>	1.47	0.67		2.78	3.57	20.00	6.60		3.25	
			Crevalle jack	<u>Caranx hippos</u>	3.49								0.30	
			Florida pompano	<u>Trachinotus carolinus</u>	1.16	1.33					1.89		0.89	
			Gray triggerfish	<u>Balistes caprisicus</u>		2.00		2.78	14.29				3.55	
			Gulf flounder	<u>Paralichthys albigutta</u>					10.00	60.00	8.49		3.84	

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							
					Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
			Gulf kingfish	<u>Menticirrhus littoralis</u>	0.58			19.44			3.77	1.77
			Gulf menhaden	<u>Brevoortia patronus</u>					0.71			0.15
			Hardhead catfish	<u>Arius felis</u>	42.44	4.41	8.00	8.33	16.43	20.00	50.00	24.82
			King mackerel	<u>Scomberomorus cavalla</u>				2.78	0.71			0.30
			Ladyfish	<u>Elops saurus</u>	3.49	1.47	0.67	2.78	3.57	20.00	6.60	3.25
			Pigfish	<u>Orthopristis chrysoptera</u>	10.47	1.47	1.33	19.44	20.00		2.83	8.71
			Pinfish	<u>Lagodon rhomboides</u>	14.53	1.47	3.33	5.56	1.43			5.17
			Sea basses sp.	Family Serranidae		1.47						0.30
			Rock sea bass	<u>Centropristis philadelphica</u>				5.56				0.30
			Sharks sp.									
			Atlantic sharpnose shark	<u>Rhizoprionodon terranovae</u>		4.41	14.67					3.69
			Blacktip shark	<u>Carcharhinus limbatus</u>		7.35	3.33					1.48
			Bonnethead	<u>Sphyrna tiburo</u>	1.74	2.94	11.33					3.25
			Bull shark	<u>Carcharhinus leucas</u>		5.88	2.00	2.78				1.18
			Finetooth shark	<u>Carcharhinus isodon</u>			0.67					0.15
			Spinner shark	<u>Carcharhinus brevipinna</u>		4.41						0.44
			Silver perch	<u>Bairdiella chrysoura</u>	11.05		1.33	13.89	0.71		1.89	4.28
			Smallmouth buffalo	<u>Ictiobus bubalus</u>					5.71		0.94	7.18
			Smooth puffer	<u>Lagocephalus laevigatus</u>								0.15
			Snappers sp.	Family Lutjanidae								
			Lane snapper	<u>Lutjanus synagris</u>		1.47						0.15
			Red snapper	<u>Lutjanus campechanus</u>	0.58			11.11	2.86			1.33
			Vermilion snapper	<u>Rhomboplites aurorubens</u>					0.71			0.15
			Southern kingfish	<u>Menticirrhus americanus</u>	2.91	42.65	44.00		5.71		22.64	19.50
			Spanish mackerel	<u>Scomberomorus maculatus</u>	3.49	4.41	4.67	2.78	4.29			3.40
			Spot	<u>Leiostomus xanthurus</u>					5.00			1.03
			Stingrays sp.	Family Dasyatidae								
			Atlantic stingray	<u>Dasyatis sabina</u>		2.94						0.30
			Striped burrfish	<u>Chilomycterus schoepfi</u>	0.58							0.15
			Tarpon	<u>Megalops atlanticus</u>		2.94						0.30
			Tripletail	<u>Lobotes surinamensis</u>		1.47						0.15



Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system													
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide						
			Stringrays sp.	Family <u>Dasyatidae</u>														
			Atlantic stingray	<u>Dasyatis sabina</u>			1.15											0.19
			Southern stingray	<u>Dasyatis americana</u>			1.15											0.19
			Blue catfish	<u>Ictalurus furcatus</u>	96.15													82.81
			Channel catfish	<u>Ictalurus punctatus</u>	2.95													2.54
			Gulf flounder	<u>Paralichthys albigutta</u>				38.46			50.00	20.00						1.37
			Hardhead catfish	<u>Arius felis</u>	0.45			38.46				80.00						2.34
			Pigfish	<u>Orthopristis chrysoptera</u>				7.69			2.08							0.39
			Silver perch	<u>Bairdiella chrysoura</u>	0.23			7.69										0.20
			Smallmouth buffalo	<u>Ictiobus bubalus</u>	0.23						50.00							0.20
			Spot	<u>Leiostomus xanthurus</u>										83.33				7.81
			Southern kingfish	<u>Menticirrhus americanus</u>			100.00							10.42				1.56
			Striped mullet	<u>Mugil cephalus</u>				7.69										0.20
1985-86	High Use	Weekend	Alligator gar	<u>Lepisosteus spatula</u>														0.44
			Atlantic cutlassfish	<u>Trichiurus leporus</u>			2.66								0.52	2.80		0.61
			Atlantic spadefish	<u>Chaetodipterus faber</u>	5.51				0.96					0.42				1.49
			Atlantic threadfin	<u>Polydactylus octonemus</u>			177											0.18
			Barred grunt	<u>Conodon nobilis</u>			0.88							0.42				0.18
			Blue catfish	<u>Ictalurus furcatus</u>	3.54													0.79
			Bluefish	<u>Pomatomus saltatrix</u>					0.96									0.44
			Cobia	<u>Rachycentrum canadum</u>											0.52			0.09
			Crevalle jack	<u>Caranx hippos</u>	1.58				1.44					6.75	2.08	1.87		2.54
			Dolphins sp.	Family <u>Coryphaenidae</u>														
			Dolphin	<u>Coryphaena hippurus</u>										0.42				0.09
			Finescale Menhaden	<u>Brevoortia gunteri</u>			0.88											0.09
			Florida pompano	<u>Trachinotus carolinus</u>			1.77		1.44					0.42	4.69	0.94		1.40
			Gray triggerfish	<u>Balistes capricornus</u>					2.88					5.90				1.75
			Greater amberjack	<u>Seriola dumerilli</u>	0.39													0.09
			Gulf flounder	<u>Paralichthys albigutta</u>										1.27	1.56			0.61
			Gulf kingfish	<u>Menticirrhus littoralis</u>	1.18		6.20		12.50							0.94		3.23

Table D.22. (Cont'd.)

Year	Season	Common name	Scientific name	Bay system									
				Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
		Hardhead catfish	<u>Arius felis</u>	2.76	0.88	1.92	21.21	10.55	11.46	16.82	7.34		
		King mackerel	<u>Scomberomorus cavalla</u>	0.39							0.09		
		Ladyfish	<u>Elops saurus</u>	5.51	18.58	6.73	6.06	3.38	1.04	3.74	5.68		
		Largemouth bass	<u>Micropterus salmoides</u>	1.18							0.26		
		Little tunny	<u>Euthynnus alletteratus</u>	2.36							0.52		
		Pigfish	<u>Orthopristis chrysoptera</u>	10.24		7.21	3.03	8.44	30.21	3.74	10.84		
		Pigfish	<u>Lagodon rhomboides</u>	14.57			18.18	7.60	38.54	9.35	12.68		
		Sea basses sp.	Family Serranidae										
		Rock hind	<u>Epinephalus adscensionis</u>					0.84		0.94	0.09		
		Warsaw grouper	<u>Epinephalus nigritus</u>								0.18		
		Sharks sp.											
		Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	0.79	4.42	12.02		4.64			3.76		
		Blacktip shark	<u>Carcharhinus limbatus</u>	3.15				0.42			0.79		
		Bonnethead	<u>Sphyrna tiburo</u>	0.39	7.96	10.58		0.84			2.97		
		Bull shark	<u>Carcharhinus leucas</u>		0.88						0.09		
		Finetooth shark	<u>Carcharhinus isodon</u>		11.50	0.96					1.31		
		Hammerhead sharks	Family Sphyrnidae	0.39							0.09		
		Lemon shark	<u>Megapron bevirostris</u>		1.77						0.18		
		Requiem sharks	Family Carcharhinidae								1.84		
		Silver perch	<u>Bairdiella chrysoura</u>	1.58		10.10	9.09	1.69	5.73	5.61	3.15		
		Silver seatrout	<u>Cynoscion nothus</u>	0.79	5.31	0.96					0.18		
		Smooth puffer	<u>Lagocephalus laevigatus</u>	0.39		0.96				0.94	0.35		
		Snappers sp.	Family Lutjanidae			1.44					0.26		
		Lane snapper	<u>Lutjanus synagris</u>	0.79							1.18		
		Red snapper	<u>Lutjanus campechanus</u>	12.20				0.42			2.80		
		Southern kingfish	<u>Menticirrhus americanus</u>	13.39	23.89	21.15	18.18	6.33	3.65	46.73	16.00		
		Spanish mackerel	<u>Scomberomorus maculatus</u>	15.35	5.31	2.88	3.03	3.38			5.24		
		Spot	<u>Leiostomus xanthurus</u>	0.39						0.94	0.18		
		Star drum	<u>Stellifer lanceolatus</u>			0.48					0.09		
		Stingrays sp.	Family Dasyatidae				9.09				0.26		
		Atlantic stingray	<u>Dasyatis sabina</u>								7.43		
		Striped mullet	<u>Mugil cephalus</u>	0.39				35.44			1.14		
		Tripletail	<u>Lobotes surinamensis</u>	0.39	5.31	2.40		0.42			0.09		
		White mullet	<u>Mugil curema</u>	0.39									



Table D.22. (Cont'd.)

Year	Season	Common name	Scientific name	Bay system										Coastwide	
				Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre					
	Weekdays	Atlantic needlefish	<u>Strongylura marina</u>								0.92				0.10
		Atlantic spadefish	<u>Chaetodipterus faber</u>	0.47											0.10
		Barred grunt	<u>Conodon nobilis</u>						12.18						2.32
		Blue caffish	<u>Ictalurus furcatus</u>	34.91	15.15										9.57
		Blue runner	<u>Caranx crysos</u>						5.08						0.97
		Channel catfish	<u>Ictalurus punctatus</u>	8.96											1.84
		Cobia	<u>Rachycentrum canadum</u>	0.47											0.10
		Cownose ray	<u>Rhinoptera bonasus</u>						0.51						0.10
		Crevalle jack	<u>Caranx hippos</u>	2.83	1.21	2.25				1.84	1.35				1.26
		Drums sp.	Family Sciaenidae	0.47											0.10
		Florida pompano	<u>Trachinotus carolinus</u>	0.94	2.42	2.25	1.06		1.02	0.92					1.26
		Gray triggerfish	<u>Balistes capricus</u>		1.82		10.11		7.61						3.58
		Gulf flounder	<u>Paralichthys albigutta</u>						5.58	2.75					1.35
		Gulf kingfish	<u>Menticirrhus littoralis</u>	0.47		3.37									0.39
		Hardhead catfish	<u>Arius felis</u>	14.15		8.99	4.79		18.78	1.84	9.46				8.99
		Inshore lizardfish	<u>Synodus foetens</u>						0.51	0.92					0.19
		Ladyfish	<u>Elops saurus</u>	0.94	16.36				4.57	6.42	4.05				4.64
		Lookdown	<u>Selene vomer</u>						0.51						0.10
		Mackerels sp.	Family Scombridae	0.94											0.19
		Pigfish	<u>Orthopristis chrysoptera</u>	0.94			3.72		9.64	28.44					5.71
		Pinfish	<u>Lagodon rhomboides</u>	3.77	3.64	29.21	4.26		12.69	51.38	2.70				12.67
		Sand perch	<u>Diplectrum formosum</u>			1.12									0.10
		Sea basses sp.	Family Serranidae												
		Comb grouper	<u>Mycteroperca rubra</u>			1.12									0.10
		Snowy grouper	<u>Epinephalus niveatus</u>						0.51						0.10
		Warsaw grouper	<u>Epinephalus nigritus</u>		0.61	1.12	1.06		0.51		1.35				0.58
		Sharks sp.													
		Atlantic sharpnose shark	<u>Rhizoprionodon terryanovae</u>	0.47	19.39	5.62	3.19				1.35				4.35
		Blacktip shark	<u>Carcharhinus limbatus</u>		0.61	1.12									0.19
		Bonnethead	<u>Sphyrna tiburo</u>			4.49			0.51						0.48
		Finetooth shark	<u>Carcharhinus isodon</u>			1.12									0.10
		Requiem sharks	Family Carcharhinidae		1.82	8.99			0.51						1.16

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide	
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
			Scalloped hammerhead	<u>Sphyrna lewini</u>			1.12						0.10
			Smooth dogfish	<u>Mustelus canis</u>	4.72								0.97
			Silver perch	<u>Bairdiella chrysoura</u>	3.77	0.61	2.25	1.06	4.57		12.16		3.00
			Silver seatrout	<u>Cynoscion nothus</u>				32.98					6.00
			Smallmouth buffalo	<u>Ictiobus bubalus</u>				3.72					0.68
			Smooth puffer	<u>Lagocephalus laevigatus</u>							0.92		0.10
			Snappers sp.	Family Lutjanidae									
			Gray snapper	<u>Lutjanus griseus</u>				1.06				1.35	0.29
			Lane snapper	<u>Lutjanus synegris</u>		0.61						0.10	
			Red snapper	<u>Lutjanus campechanus</u>	11.32	6.06	7.86		2.03				4.35
			Southern kingfish	<u>Menticirrhus americanus</u>	4.24	24.48	14.61	14.36	8.63	3.67	66.22		16.05
			Spanish mackerel	<u>Scomberomorus maculatus</u>	0.47	1.21	3.37	18.62					3.97
			Spot	<u>Leiostomus xanthurus</u>					4.06				0.77
			Stingrays sp.	Family Dasyatidae									
			Atlantic stingray	<u>Dasyatis sabina</u>	0.94								0.19
			Southern stingray	<u>Dasyatis americanus</u>	0.47								0.10
			Striped mullet	<u>Mugil cephalus</u>	2.83								0.58
			Sunfishes sp.	Family Centrarchidae	0.47								0.10
Low use			Blue catfish	<u>Ictalurus furcatus</u>		4.54							1.29
Weekend			Gray triggerfish	<u>Balistes capricus</u>			1.43						0.43
			Gulf flounder	<u>Paralichthys albigutta</u>				23.08		12.20			3.45
			Hardhead catfish	<u>Arius felis</u>		30.30		7.69		21.95			15.52
			Pigfish	<u>Orthopristis chrysoptera</u>	14.29		17.14	23.08		65.85			21.55
			Pinfish	<u>Lagodon rhomboides</u>	19.05			23.08					5.60
			Sharks sp.		23.81								
			Bonnethead	<u>Sphyrna tiburo</u>				7.69					0.43
			Silver perch	<u>Bairdiella chrysoura</u>				7.69					0.43
			Snappers sp.	Family Lutjanidae									
			Red snapper	<u>Lutjanus campechanus</u>			2.86	7.69					1.29
			Southern kingfish	<u>Menticirrhus americanus</u>	42.86	65.15	78.57						50.00

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide
					Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	
Weekdays	Alligator gar	<u>Lepisosteus spatula</u>	0.33					2.33	4.00	0.45		
	Bearded brotula	<u>Brotula barbata</u>								0.22		
	Blue catfish	<u>Ictalurus furcatus</u>	72.13	100.00						49.44		
	Channel catfish	<u>Ictalurus punctatus</u>	0.66							0.45		
	Cownose ray	<u>Rhinoptera bonasus</u>			6.67					0.22		
	Diamond killifish	<u>Adinia xenica</u>						27.91		2.68		
	Freshwater drum	<u>Aplodinotus grunniens</u>	0.98							0.67		
	Gray triggerfish	<u>Balistes capriscus</u>						6.98		0.67		
	Gulf flounder	<u>Paralichthys albigutta</u>			26.67			6.98	3.45	2.01		
	Hardhead catfish	<u>Arius felis</u>						4.65		7.38		
	Inshore lizardfish	<u>Synodus foetens</u>	10.16					2.33		0.22		
	Ladyfish	<u>Elops saurus</u>							4.00	0.22		
	Largemouth bass	<u>Micropterus salmoides</u>	0.98							0.67		
	Pigfish	<u>Orthopristis chrysoptera</u>					40.00	9.30	46.55	8.28		
	Pinfish	<u>Lagodon rhomboides</u>						4.65	3.45	0.90		
	Sea basses sp.	Family Serranidae										
	Warsaw grouper	<u>Epinephalus nigritus</u>				6.67				0.22		
	Silver perch	<u>Bairdiella chrysoura</u>							46.55	6.04		
	Snappers sp.	Family Lutjanidae										
	Red snapper	<u>Lutjanus campechanus</u>	14.75					9.30		11.63		
	Southern kingfish	<u>Menticirrhus americanus</u>						25.58	92.00	7.61		

Table D.23. Percent composition of the annual residential origin of private-boat fishermen-trips in Texas bays and passes by bay system (1974-86).

Bay system Year <sup>a</sup>	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
<b>Galveston</b>				
1974-76	85	9	4	2
1976-77	92	5	2	0
1977-78	95	4	1	0
1978-79	92	0	7	0
1979-80	98	1	1	0
1980-81	98	1	1	0
1981-82	89	6	5	0
1982-83	96	2	2	0
1983-84	88	3	8	0
1984-85	92	3	5	1
1985-86	92	4	3	1
<b>Matagorda</b>				
1974-76	41	45	14	0
1976-77	48	37	15	0
1977-78	40	34	26	0
1978-79	36	32	32	0
1979-80	45	24	31	0
1980-81	52	23	25	0
1981-82	52	22	26	0
1982-83	51	26	23	0
1983-84	32	28	39	1
1984-85	47	25	26	1
1985-86	52	25	21	1
<b>San Antonio</b>				
1974-76	45	25	29	1
1976-77	44	32	24	0
1977-78	42	27	30	1
1978-79	45	31	24	0
1979-80	44	24	32	0
1980-81	42	26	30	1
1981-82	50	26	24	2
1982-83	50	29	21	1
1983-84	38	25	36	2
1984-85	41	31	27	1
1985-86	45	28	26	0

Table D.23. (Cont'd.)

Bay system Year <sup>a</sup>	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
<b>Aransas</b>				
1974-76	26	9	47	18
1976-77	21	14	60	6
1977-78	25	17	49	9
1978-79	24	9	32	35
1979-80	33	8	48	11
1980-81	30	6	39	25
1981-82	32	12	37	19
1982-83	28	15	39	18
1983-84	11	24	54	11
1984-85	18	22	45	15
1985-86	27	18	44	11
<b>Corpus Christi</b>				
1974-76	76	2	14	8
1976-77	61	4	29	7
1977-78	71	4	22	4
1978-79	49	1	15	34
1979-80	48	3	38	11
1980-81	57	1	23	19
1981-82	62	2	23	12
1982-83	56	4	30	10
1983-84	52	5	34	9
1984-85	54	6	31	9
1985-86	50	6	39	5
<b>Upper Laguna Madre</b>				
1974-76	74	2	20	4
1976-77	68	8	23	1
1977-78	72	5	21	2
1978-79	62	6	31	1
1979-80	76	4	16	4
1980-81	68	7	22	2
1981-82	69	9	16	5
1982-83	65	8	22	4
1983-84	65	7	26	2
1984-85	71	7	20	3
1985-86	72	8	17	3
<b>Lower Laguna Madre</b>				
1974-76	80	6	10	4
1976-77	76	5	11	9
1977-78	78	5	13	3
1978-79	82	4	11	3
1979-80	73	4	10	14
1980-81	71	3	11	15
1981-82	77	4	11	7
1982-83	75	5	10	10
1983-84	48	8	39	5
1984-85	68	10	16	6
1985-86	71	10	13	6

Table D.23. (Cont'd.)

Bay system Year <sup>a</sup>	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Coastwide				
1974-76	60	14	22	5
1976-77	62	13	22	3
1977-78	64	14	20	2
1978-79	56	9	16	19
1979-80	62	11	23	4
1980-81	62	10	20	9
1981-82	61	12	20	7
1982-83	62	11	20	7
1983-84	49	13	34	4
1984-85	59	14	22	5
1985-86	60	13	23	4

<sup>a</sup> Prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table D.24. Percent composition of the residential origin of private-boat fishermen-trips in Texas bays and passes during the high-use season by bay system and day type (1974-1985). Blank = no fishermen interviewed.

Bay system <sup>a</sup> Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Other states/countries
<b>Galveston</b>								
1974-75	77	13	9	0	69	25	0	6
1976	89	8	3	0				
1977	95	5	0	0				
1978	97	0	2	0				
1979	95	2	3	0	96	1	3	0
1980	97	1	2	0	97	1	2	0
1981	86	11	3	0	87	10	3	0
1982	94	3	2	0	91	4	4	0
1983	86	4	9	0	87	3	9	1
1984	91	3	5	1	91	5	3	0
1985	95	2	2	1	84	8	6	1
<b>Matagorda</b>								
1974-75	52	48	0	0	32	52	16	0
1976	50	39	10	1				
1977	45	30	24	1				
1978	37	35	28	0				
1979	42	30	28	0	43	24	32	0
1980	42	30	28	0	36	26	37	1
1981	55	25	20	0	43	30	26	1
1982	47	28	26	0	44	30	24	2
1983	31	30	40	0	32	30	37	1
1984	46	26	28	1	45	23	31	2
1985	51	29	19	1	54	20	25	1

Table D.24. (Cont'd.)

Bay system <sup>a</sup> Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states/countries
San Antonio								
1974-75	54	20	26	0	36	19	43	2
1976	49	32	19	0				
1977	45	28	27	0				
1978	42	35	22	0				
1979	45	24	30	1	41	29	30	0
1980	48	30	22	0	49	19	29	3
1981	47	24	29	0	55	23	20	1
1982	50	32	19	0	51	30	16	3
1983	32	30	37	1	42	20	35	4
1984	34	32	33	1	45	32	21	1
1985	41	32	27	0	48	24	27	1
Aransas								
1974-75	21	17	62	0	34	6	60	0
1976	19	14	64	3				
1977	17	20	57	7				
1978	33	18	45	4				
1979	38	14	46	2	29	0	71	0
1980	31	13	53	3	28	4	47	21
1981	22	19	54	5	28	7	44	21
1982	27	15	54	4	25	10	57	7
1983	10	29	56	5	10	16	56	18
1984	18	27	46	9	18	20	51	12
1985	29	19	48	4	20	19	48	13



Table D.24. (Cont'd.)

Bay system <sup>a</sup> Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties
<b>Corpus Christi</b>								
1974-75	91	2	2	5	76	0	0	24
1976	71	4	2	23				
1977	74	4	1	20				
1978	70	4	3	23				
1979	59	5	4	31	26	0	63	11
1980	67	1	3	29	22	2	39	38
1981	72	3	2	22	49	3	35	13
1982	64	6	3	27	42	4	43	10
1983	59	6	1	35	43	6	35	16
1984	57	9	2	32	43	5	36	16
1985	43	9	2	45	44	5	44	7
<b>Upper Laguna Madre</b>								
1974-75	84	1	0	15	61	3	31	5
1976	64	8	0	27				
1977	76	5	1	18				
1978	56	8	0	36				
1979	61	9	2	28	88	0	12	0
1980	59	9	1	31	68	13	15	4
1981	72	8	0	20	63	13	22	3
1982	75	7	0	18	65	10	25	0
1983	66	7	1	26	62	9	27	3
1984	72	6	1	20	63	9	24	3
1985	72	8	2	18	64	8	24	4

Table D.24. (Cont'd.)

Bay system <sup>a</sup> Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states/countries
Lower Laguna Madre								
1974-75	95	1	4	0	72	11	17	0
1976	87	5	7	2				
1977	78	9	12	2				
1978	76	7	15	2				
1979	85	2	12	1	85	4	11	0
1980	90	4	4	1	66	4	25	5
1981	88	4	7	2	68	11	20	1
1982	82	6	11	1	69	11	16	4
1983	52	6	41	1	39	12	41	7
1984	77	9	12	2	51	15	28	7
1985	74	12	11	3	67	8	19	5
Coastwide								
1974-75	65	14	21	0	50	16	31	2
1976	68	13	18	1				
1977	66	14	19	1				
1978	64	16	19	1				
1979	63	13	22	1	68	10	21	1
1980	61	15	23	1	54	10	26	10
1981	65	12	21	1	56	14	25	6
1982	67	13	19	1	56	14	26	4
1983	50	14	34	1	45	13	35	7
1984	61	15	22	2	53	14	26	6
1985	61	15	22	2	53	13	29	5

<sup>a</sup>prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table D.25. Percent composition of the residential origin of private-boat fishermen-trips in Texas bay and passes during the low-use season by bay system and day type (1974-1986). Blank = no fishermen interviewed.

Bay system <sup>a</sup> Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
<b>Galveston</b>						
1974-76	97	0	1	96	0	0
1976-77	96	2	0		4	
1977-78	95	3	0			
1978-79	95	1	1			
1979-80	99	0	0	100	0	0
1980-81	100	0	0	99	0	0
1981-82	90	1	0	94	0	0
1982-83	100	0	0	99	0	0
1983-84	100	0	0	88	0	0
1984-85	94	0	1	96	0	0
1985-86	98	0	1	100	0	0
<b>Matagorda</b>						
1974-76	40	49	0	40	30	0
1976-77	48	38	0			
1977-78	34	39	0			
1978-79	34	30	0			
1979-80	44	27	0	51	13	0
1980-81	62	18	0	66	17	0
1981-82	63	18	0	47	14	0
1982-83	59	22	0	55	24	0
1983-84	35	24	1	44	16	2
1984-85	54	25	1	53	36	1
1985-86	47	26	1	57	22	5

Table D.25. (Cont'd.)

Bay systema Year	Weekend				Weekday			
	Adjacent coastal countries	Non-adjacent coastal countries	Non- coastal countries	Other states/ countries	Adjacent coastal countries	Non-adjacent coastal countries	Non- coastal countries	Other states/ countries
<b>San Antonio</b>								
1974-76	41	33	26	0	50	29	21	0
1976-77	39	31	29	1				
1977-78	39	26	33	1				
1978-79	47	26	26	1				
1979-80	41	19	39	0	50	22	28	0
1980-81	46	29	26	0	28	28	43	0
1981-82	45	32	22	1	51	23	23	4
1982-83	47	27	25	0	51	26	22	1
1983-84	56	17	27	0	38	1	61	0
1984-85	55	27	18	0	72	15	13	0
1985-86	52	25	23	0	67	22	11	0
<b>Aransas</b>								
1974-76	26	9	37	28	23	2	30	45
1976-77	23	14	55	8				
1977-78	33	14	41	12				
1978-79	26	9	50	15				
1979-80	39	18	36	7	25	0	39	36
1980-81	47	3	33	17	13	6	24	58
1981-82	53	16	23	8	26	6	26	43
1982-83	36	31	30	4	23	4	16	57
1983-84	50	21	29	0	14	32	33	21
1984-85	16	20	45	19	20	6	16	58
1985-86	32	20	38	10	32	9	24	35

Table D.25. (Cont'd.)

Bay system <sup>a</sup> Year	Weekend				Weekday				
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-adjacent coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-adjacent coastal counties	
<b>Corpus Christi</b>									
1974-76	67	5	15	13	68	0	13	19	
1976-77	60	1	20	18					
1977-78	67	4	23	6					
1978-79	63	0	23	14					
1979-80	74	2	19	5	35	4	40	22	
1980-81	84	1	11	4	57	0	13	31	
1981-82	70	3	17	9	58	0	19	24	
1982-83	60	4	27	9	59	1	24	16	
1983-84	68	2	26	5	54	1	28	17	
1984-85	72	4	22	2	54	2	17	27	
1985-86	77	2	18	2	51	5	30	15	
<b>Upper Laguna Madre</b>									
1974-76	76	5	19	0	76	0	14	10	
1976-77	71	8	18	3					
1977-78	67	5	25	3					
1978-79	68	5	26	1					
1979-80	77	4	17	2	79	3	8	10	
1980-81	79	5	14	2	66	2	29	3	
1981-82	75	12	10	3	69	4	14	14	
1982-83	72	12	15	1	48	5	30	17	
1983-84	75	3	22	0	61	4	20	15	
1984-85	78	6	14	2	62	1	14	22	
1985-86	81	8	9	2	73	4	12	10	

Table D.25. (Cont'd.)

Bay system <sup>a</sup> Year	Weekend				Weekday				
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties	
Lower Laguna Madre									
1974-76	94	2	2	2	58	9	2	19	14
1976-77	80	3	5	12					
1977-78	78	2	15	5					
1978-79	88	1	7	3					
1979-80	91	0	3	6	32	8	6	12	48
1980-81	76	5	5	14	50	0	14	10	40
1981-82	89	1	7	3	65	1	3	10	24
1982-83	86	2	3	9	63	2 <sub>1</sub>	9	10	25
1983-84	70	4	22	5	44	3	5	26	28
1984-85	76	3	10	10	57	10	10	5	27
1985-86	82	5	7	5	57	4	5	9	29
Coastwide									
1974-76	62	15	18	5	61	9	5	17	13
1976-77	64	10	18	8					
1977-78	61	14	22	3					
1978-79	64	11	22	4					
1979-80	64	11	22	2	53	10	2	25	12
1980-81	71	9	14	6	62	4	6	15	19
1981-82	70	12	15	3	53	10	3	19	18
1982-83	68	10	17	5	56	9	5	17	19
1983-84	65	10	24	2	49	8	2	29	13
1984-85	64	13	18	5	57	12	5	11	21
1985-86	71	11	16	3	56	8	3	17	19

<sup>a</sup>Prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table D.26. Mean fishing-party size (No. of fishermen) and mean trip length (h) for private-boat fishermen in Texas bays and passes by bay system, season day type (1974-1986).

Bay system Year	Mean fishing-party size						Mean trip length					
	High-use season		Low-use season		Annual	Annual	High-use season		Low-use season		Annual	
	Weekend	Weekday	Weekend	Weekday			Weekend	Weekday	Weekend	Weekday		
<b>Galveston</b>												
1974-76	2.7	2.2	2.6	2.3	2.5	4.2	3.6	4.9	5.8	4.8		
1976-77	2.5		2.4		2.5	4.9		4.3		4.7		
1977-78	2.6		2.7		2.6	5.5		5.5		5.5		
1978-79	2.6		2.7		2.6	6.4		5.2		6.1		
1979-80	2.7	2.5	2.9	1.9	2.7	6.1	5.4	6.0	5.6	6.0		
1980-81	2.7	2.1	2.3	2.1	2.4	5.8	6.1	7.2	5.0	5.9		
1981-82	2.7	2.3	2.3	2.2	2.4	7.9	6.3	5.6	4.9	6.8		
1982-83	2.7	2.5	2.0	2.1	2.6	5.9	5.5	5.0	4.5	5.6		
1983-84	2.6	2.3	2.6	1.7	2.4	5.9	6.3	4.8	4.9	5.8		
1984-85	2.6	2.4	2.8	1.9	2.5	5.7	5.7	4.8	4.4	5.6		
1985-86	2.7	2.3	2.8	1.9	2.5	5.8	5.0	6.2	4.8	5.6		
<b>Matagorda</b>												
1974-76	2.5	1.9	2.5	2.0	2.4	5.7	6.0	5.1	6.2	5.5		
1976-77	2.9		2.6		2.8	4.8		3.8		4.6		
1977-78	2.7		2.9		2.8	6.1		6.8		6.4		
1978-79	3.0		2.8		3.0	7.2		5.5		6.9		
1979-80	3.0	1.9	2.8	2.3	2.9	6.3	13.8	5.8	7.8	6.4		
1980-81	2.9	2.4	2.5	2.1	2.7	8.7	9.2	7.1	4.9	8.6		
1981-82	2.8	2.4	2.6	2.4	2.6	6.5	6.3	6.5	6.9	6.4		
1982-83	2.8	2.5	2.7	2.5	2.7	8.2	6.7	6.2	5.1	7.2		
1983-84	2.7	2.4	2.6	2.2	2.6	7.3	6.0	7.4	5.9	6.7		
1984-85	3.0	2.4	2.9	2.1	2.7	8.3	6.2	5.4	5.5	7.0		
1985-86	2.7	2.3	2.6	2.0	2.5	7.9	7.0	6.6	5.3	7.3		
<b>San Antonio</b>												
1974-76	2.6	2.5	2.5	2.1	2.5	5.3	5.8	5.0	5.3	5.3		
1976-77	2.7		2.5		2.6	5.4		6.6		5.8		
1977-78	2.7		2.7		2.7	6.4		6.6		6.5		
1978-79	2.8		2.7		2.8	7.8		5.1		6.9		
1979-80	2.7	2.1	2.8	2.5	2.7	6.7	5.5	6.2	6.2	6.4		
1980-81	2.8	2.2	2.6	2.3	2.6	7.0	7.2	6.8	6.1	7.0		
1981-82	2.6	2.4	2.5	2.2	2.5	8.1	6.0	5.8	6.7	6.7		
1982-83	2.6	2.4	2.8	2.3	2.5	8.5	7.4	4.9	6.4	7.5		
1983-84	2.7	2.4	2.6	2.4	2.5	6.7	6.4	6.2	4.7	6.5		
1984-85	2.8	2.3	2.7	1.9	2.6	6.5	6.3	5.0	4.3	6.1		
1985-86	2.7	2.3	1.8	2.2	2.4	7.2	6.3	6.9	4.5	6.8		

Table D.26. (Cont'd.)

Bay system Year	Mean fishing-party size					Mean trip length				
	High-use season		Low-use season		Annual	High-use season		Low-use season		Annual
	Weekend	Weekday	Weekend	Weekday		Weekend	Weekday	Weekend	Weekday	
<b>Aransas</b>										
1974-76	3.1	2.8	2.5	2.2	2.7	5.0	3.5	3.7	3.8	4.1
1976-77	2.7		2.8		2.7	5.8		4.7		5.4
1977-78	2.7		2.6		2.7	5.9		5.9		5.9
1978-79	2.9		2.6		2.8	5.4		5.7		5.5
1979-80	2.8	2.8	2.4	2.5	2.7	6.7	4.2	4.0	4.5	5.8
1980-81	2.7	2.2	2.4	2.0	2.4	5.5	4.6	4.1	5.0	5.0
1981-82	2.8	2.3	2.5	2.2	2.5	5.8	4.5	4.5	4.7	5.0
1982-83	2.7	2.5	2.5	2.3	2.5	5.9	5.2	6.5	4.0	5.4
1983-84	2.8	2.6	2.3	2.2	2.7	5.8	4.8	4.3	4.1	5.2
1984-85	2.6	2.3	2.6	2.0	2.5	4.8	4.6	4.9	3.8	4.6
1985-86	2.7	2.4	2.1	1.7	2.4	5.6	4.6	5.1	4.8	5.1
<b>Corpus Christi</b>										
1974-76	2.5	1.9	2.5	2.3	2.4	4.0	3.7	3.7	4.0	3.8
1976-77	2.7		2.6		2.6	4.3		4.4		4.3
1977-78	2.4		2.6		2.5	5.3		4.8		5.1
1978-79	2.6		2.5		2.6	4.9		4.8		4.8
1979-80	2.6	2.7	2.7	2.1	2.6	4.2	5.2	4.3	4.4	4.3
1980-81	2.5	2.3	2.7	2.2	2.4	4.5	4.4	4.0	3.9	4.3
1981-82	2.5	2.3	2.6	2.2	2.4	4.6	4.5	4.0	4.2	4.5
1982-83	2.7	2.4	2.6	2.1	2.5	4.9	4.8	4.4	3.9	4.7
1983-84	2.8	2.4	2.8	2.1	2.6	4.8	4.7	3.2	4.0	4.6
1984-85	2.6	2.4	2.7	2.3	2.5	4.6	4.4	4.9	3.9	4.5
1985-86	2.6	2.3	2.1	1.8	2.3	5.0	4.7	5.4	4.8	5.0
<b>Upper Laguna Madre</b>										
1974-76	2.6	2.4	2.5	2.1	2.5	3.7	4.2	10.3	3.5	7.1
1976-77	2.6		2.4		2.5	7.4		10.6		8.5
1977-78	2.6		2.6		2.6	7.1		8.8		8.0
1978-79	2.7		2.8		2.7	8.7		5.8		7.7
1979-80	2.8	2.3	2.5	2.0	2.6	6.9	4.6	7.0	5.0	6.7
1980-81	2.9	2.4	2.7	2.4	2.7	13.8	9.1	11.2	10.4	12.4
1981-82	2.9	2.5	2.7	2.3	2.7	13.5	10.2	8.5	6.9	11.5
1982-83	2.8	2.5	2.5	2.2	2.6	10.6	10.8	6.9	8.5	10.1
1983-84	2.7	2.5	2.8	2.1	2.6	10.9	11.3	8.1	7.0	10.9
1984-85	2.7	2.6	2.8	2.6	2.7	9.0	8.7	5.6	8.2	8.1
1985-86	2.7	2.4	2.3	2.3	2.5	11.3	8.1	9.6	6.5	10.0



Table D.26. (Cont'd.)

Bay system Year	Mean fishing-party size				Mean trip length				
	High-use season		Low-use season		High-use season		Low-use season		
	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	
<b>Lower Laguna Madre</b>									
1974-76	2.5	2.3	2.7	2.3	7.2	4.9	5.1	4.9	5.8
1976-77	2.6		2.4		6.1		4.2		5.3
1977-78	2.6		2.6		7.9		7.8		7.8
1978-79	2.6		2.7		7.0		5.8		6.6
1979-80	2.6	2.2	2.7	2.3	5.4	5.6	5.5	4.8	5.4
1980-81	2.6	2.3	2.8	2.7	6.2	7.4	4.8	5.2	6.1
1981-82	2.7	2.5	2.7	2.5	6.2	5.7	5.4	5.8	5.9
1982-83	2.1	2.4	2.5	2.4	7.1	6.8	4.9	5.5	6.4
1983-84	2.6	2.4	2.3	2.1	6.6	7.0	5.4	4.5	6.5
1984-85	2.6	2.4	2.6	2.7	6.0	5.4	5.2	5.2	5.6
1985-86	2.6	2.3	2.6	2.1	6.8	5.6	5.3	5.2	6.2
<b>Coastwide</b>									
1974-76	2.6	2.4	2.5	2.2	5.1	4.8	5.7	4.8	5.3
1976-77	2.6		2.5		5.5		5.2		5.4
1977-78	2.6		2.7		6.2		6.7		6.4
1978-79	2.7		2.7		6.9		5.4		6.5
1979-80	2.7	2.3	2.7	2.3	6.1	6.2	5.7	5.5	5.9
1980-81	2.8	2.2	2.6	2.2	7.7	6.6	6.3	5.6	7.1
1981-82	2.7	2.4	2.6	2.3	7.5	5.9	5.9	5.6	6.5
1982-83	2.7	2.5	2.6	2.3	7.4	6.8	5.2	5.3	6.7
1983-84	2.7	2.4	2.5	2.1	7.5	6.9	5.8	4.8	7.0
1984-85	2.7	2.4	2.7	2.1	6.4	5.7	5.2	4.9	5.9
1985-86	2.7	2.3	2.3	1.9	7.5	5.8	6.8	5.1	6.7

Appendix E: Total number of recreational licenses sold in Texas.

Table E.1. Total number of recreational fishing licenses sold in Texas by fiscal year (1955-1986).<sup>a</sup> FY 1958 was the first year a fishing license was required to fish in salt water in Texas.

Fiscal year (1 Sep-31 Aug)	Type of license				Total
	Fishing <sup>b</sup>	Resident combination hunting and fishing	3-day saltwater sport fishing	Fishing exempt for blind	
1956	458,404				458,404
1957	465,168				465,168
1958	782,402				782,402
1959	825,729				825,729
1960	846,632				846,632
1961	872,236				872,236
1962	832,913				832,913
1963	882,111				882,111
1964	902,671				902,671
1965	927,210				927,210
1966	1,017,336				1,017,336
1967	1,139,969				1,139,969
1968	1,231,134				1,231,134
1969	1,369,646				1,369,646
1970	1,447,167				1,447,167
1971	1,494,707				1,494,707
1972	1,541,693				1,541,693
1973	1,599,905				1,599,905
1974	1,195,306	414,850	23,070	52	1,633,278
1975	1,142,088	467,342	30,055	67	1,639,552
1976	1,088,687	442,197	32,608	106	1,563,598
1977	1,090,807	430,186	35,684	152	1,556,829
1978	978,976	447,567	55,177		1,482,821
1979	1,011,530	518,403	70,024		1,602,044
1980	1,100,281	569,165	73,073		1,745,119
1981	1,101,346	612,959	81,881		1,799,447
1982	1,217,728	671,581	18,268		1,910,906
1983	1,271,334	719,630	56		1,994,791
1984	1,130,546	680,730			1,814,973
1985	980,494	668,937			1,652,893
1986	1,259,832	670,786			1,934,808

<sup>a</sup>From 1 January 1986-31 August 1986, 251,897 Saltwater Fishing Stamps were sold. This was the first year for the stamp and was a partial year.

<sup>b</sup>Resident, nonresident and temporary (5- and 14-day) nonresident licenses included in total.

Table E.2. Total number of sport oyster dredge licenses, sport shrimp trawl licenses, fish guide and boat registrations sold in Texas by fiscal year (1958-1986).

Fiscal year (1 Sep-31 Aug)	Sport oyster dredge license	Sport shrimp trawl license	Fish guide license	Boat registration
1959	60			
1960	17	8,837		
1961	58	7,399		
1962	39	6,249		
1963	45	7,003		
1964	52	6,367		
1965	80	7,034		
1966	66	7,144		
1967	42	7,324	340	
1968	44	7,508	380	
1969	35	8,553	515	
1970	38	9,662	606	
1971	35	9,947	692	
1972	28	9,296	702	
1973	25	9,537	728	
1974	24	10,521	522	
1975	31	9,281	516	
1976	48	8,866	486	485,977
1977	68	9,707	488	515,476
1978	91	9,982	517	536,712
1979	136	10,349	562	542,368
1980	178	8,926	581	546,040
1981	235	8,729	628	561,657
1982	218	7,433	773	580,055
1983	402	6,110	1,058	598,900
1984	323	5,339	931	603,761
1985	265	4,547	612	593,174
1986	243	4,147	1,014	607,119

Appendix F: Estimates for party-boat fishing in Texas bays and passes.

Table F.1. Number of days surveyed and number of party-boat fishermen interviewed ( ) in Texas bays and passes by season, day type and bay system (1983-1986). WE = weekend days. WD = weekdays.

Year Season Day type	Bay System										
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower		
			Galveston	Matagorda			Laguna Madre	Laguna Madre			
1983-84											
High use											
WE	32 (7)	31 (28)	26 (11)	31 (37)	31 (10)	31 (4)	31 (108)	213 (205)			
WD	63 (20)	63 (14)	45 (7)	66 (63)	64 (20)	66 (0)	66 (232)	433 (356)			
Low use											
WE	12 (0)	13 (0)	12 (0)	12 (0)	12 (0)	12 (0)	12 (17)	85 (17)			
WD	24 (0)	23 (0)	24 (0)	24 (0)	24 (5)	24 (2)	24 (37)	167 (44)			
Annual	131 (27)	130 (42)	107 (18)	133 (100)	131 (35)	133 (6)	133 (394)	898 (622)			
1984-85											
High use											
WE	31 (0)	31 (4)	26 (3)	31 (13)	31 (35)	31 (0)	31 (83)	212 (138)			
WD	65 (23)	65 (5)	46 (7)	65 (10)	66 (9)	66 (2)	66 (180)	439 (236)			
Low use											
WE	12 (0)	12 (0)	12 (0)	12 (3)	12 (0)	12 (0)	12 (42)	84 (45)			
WD	24 (0)	24 (0)	24 (0)	24 (6)	24 (0)	24 (29)	24 (29)	168 (35)			
Annual	132 (23)	132 (9)	108 (10)	132 (32)	133 (44)	133 (2)	133 (334)	903 (454)			
1985-86											
High use											
WE	31 (0)	31 (0)	26 (8)	31 (46)	31 (11)	31 (11)	31 (183)	212 (259)			
WD	66 (16)	66 (12)	46 (10)	66 (66)	66 (47)	66 (11)	66 (124)	442 (286)			
Low use											
WE	12 (0)	12 (4)	12 (0)	12 (14)	12 (0)	12 (0)	12 (12)	84 (30)			
WD	24 (0)	24 (3)	24 (3)	24 (8)	24 (14)	24 (27)	24 (25)	168 (80)			
Annual	133 (16)	133 (19)	108 (21)	133 (134)	133 (72)	133 (49)	133 (344)	906 (655)			

Table F.2. Pressure estimates (man-h X 1000)  $\pm$  1 SE for party-boat fishermen in Texas bays and passes by season, day type and bay system (1983-1986).

Bay system Year	High-use season		Low-use season		Annual <sup>a</sup>
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1983-84	7.2 $\pm$ 5.0	14.6 $\pm$ 9.1	0.0	0.0	21.8 $\pm$ 10.4
1984-85	0.0	10.4 $\pm$ 6.2	0.0	0.0	10.4 $\pm$ 6.2
1985-86	0.0	10.7 $\pm$ 9.0	0.0	0.0	10.7 $\pm$ 9.0
Matagorda					
1983-84	11.7 $\pm$ 6.2	9.2 $\pm$ 6.0	0.0	0.0	20.9 $\pm$ 8.6
1984-85	0.1 $\pm$ 0.1	0.8 $\pm$ 0.7	0.0	0.0	0.9 $\pm$ 0.7
1985-86	0.0	4.0 $\pm$ 3.5	0.4 $\pm$ 0.4	1.0 $\pm$ 1.0	5.3 $\pm$ 3.7
San Antonio					
1983-84	1.4 $\pm$ 0.8	7.2 $\pm$ 5.1	0.0	0.0	8.6 $\pm$ 5.1
1984-85	0.1 $\pm$ 0.1	0.5 $\pm$ 0.5	0.0	0.0	0.6 $\pm$ 0.5
1985-86	2.1 $\pm$ 2.0	2.2 $\pm$ 1.7	0.0	2.2 $\pm$ 2.2	6.5 $\pm$ 3.4
Aransas					
1983-84	12.9 $\pm$ 6.2	25.4 $\pm$ 11.2	0.0	0.0	38.4 $\pm$ 12.8
1984-85	3.5 $\pm$ 2.5	9.0 $\pm$ 6.4	0.8 $\pm$ 0.8	4.3 $\pm$ 4.3	17.7 $\pm$ 8.2
1985-86	11.6 $\pm$ 4.6	17.1 $\pm$ 6.2	7.3 $\pm$ 4.7	9.8 $\pm$ 5.8	45.7 $\pm$ 10.7
Corpus Christi					
1983-84	4.6 $\pm$ 2.8	52.1 $\pm$ 43.7	0.0	5.8 $\pm$ 5.8	62.4 $\pm$ 44.2
1984-85	18.2 $\pm$ 9.6	3.9 $\pm$ 3.2	0.0	0.0	22.0 $\pm$ 10.2
1985-86	2.1 $\pm$ 1.2	14.5 $\pm$ 7.2	0.0	15.8 $\pm$ 11.9	32.4 $\pm$ 13.9
Upper Laguna Madre					
1983-84	0.1 $\pm$ 0.1	0.0	0.0	0.3 $\pm$ 0.3	0.4 $\pm$ 0.3
1984-85	0.0	0.4 $\pm$ 0.4	0.0	0.0	0.4 $\pm$ 0.4
1985-86	1.2 $\pm$ 0.7	1.4 $\pm$ 0.7	0.0	40.0 $\pm$ 38.2	42.7 $\pm$ 38.3
Lower Laguna Madre					
1983-84	14.0 $\pm$ 3.7	45.2 $\pm$ 11.0	10.3 $\pm$ 5.8	27.9 $\pm$ 18.6	97.4 $\pm$ 22.7
1984-85	13.0 $\pm$ 4.8	29.8 $\pm$ 10.1	15.8 $\pm$ 10.2	17.0 $\pm$ 10.8	75.6 $\pm$ 18.6
1985-86	35.6 $\pm$ 8.7	26.6 $\pm$ 8.3	8.3 $\pm$ 5.1	11.0 $\pm$ 5.2	81.4 $\pm$ 14.1
Coastwide <sup>a</sup>					
1983-84	51.9 $\pm$ 11.1	153.8 $\pm$ 48.0	10.3 $\pm$ 5.8	34.0 $\pm$ 19.5	249.9 $\pm$ 53.3
1984-85	34.9 $\pm$ 11.0	54.7 $\pm$ 13.9	16.6 $\pm$ 10.2	21.3 $\pm$ 11.6	127.6 $\pm$ 23.6
1985-86	52.6 $\pm$ 10.2	76.6 $\pm$ 16.0	15.9 $\pm$ 6.9	79.8 $\pm$ 40.9	224.8 $\pm$ 45.6

<sup>a</sup>Due to rounding of numbers these totals may not exactly equal individual totals.

Table F.3. Annual estimated landings of fishes (No. X 1000)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes by species and bay system (1983-1986).

Species Year	Bay system							Coastwide <sup>a</sup>
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
<b>Atlantic croaker</b>								
1983-84	0.1 $\pm$ 0.1	0.0	0.0	6.9 $\pm$ 6.9	11.6 $\pm$ 10.9	0.0	0.2 $\pm$ 0.1	18.8 $\pm$ 12.9
1984-85	<.1 $\pm$ <.1	0.0	0.0	0.0	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1	0.2 $\pm$ 0.1
1985-86	0.0	0.2 $\pm$ 0.2	0.0	<.1 $\pm$ <.1	0.0	0.0	0.0	0.2 $\pm$ 0.2
<b>Black drum</b>								
1983-84	<.1 $\pm$ <.1	0.0	0.0	0.1 $\pm$ 0.1	2.5 $\pm$ 1.8	0.0	2.5 $\pm$ 1.5	5.1 $\pm$ 2.4
1984-85	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.2 $\pm$ 0.2	0.0	0.5 $\pm$ 0.4	0.8 $\pm$ 0.5
1985-86	0.0	0.5 $\pm$ 0.5	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1	0.2 $\pm$ 0.2	1.0 $\pm$ 0.5
<b>Gafftopsail catfish</b>								
1983-84	0.0	0.3 $\pm$ 0.3	0.0	0.0	2.5 $\pm$ 2.3	0.0	<.1 $\pm$ <.1	2.9 $\pm$ 2.3
1984-85	0.0	0.0	0.0	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.0	0.1 $\pm$ 0.1
1985-86	0.0	0.0	0.0	0.0	0.1 $\pm$ 0.1	0.0	0.0	0.1 $\pm$ 0.1
<b>Red drum</b>								
1983-84	0.2 $\pm$ 0.2	2.5 $\pm$ 1.8	0.5 $\pm$ 0.3	1.4 $\pm$ 1.0	1.8 $\pm$ 1.5	0.0	5.6 $\pm$ 1.5	12.1 $\pm$ 3.0
1984-85	0.3 $\pm$ 0.2	0.2 $\pm$ 0.1	0.0	4.8 $\pm$ 2.7	2.6 $\pm$ 1.3	0.0	5.9 $\pm$ 1.6	13.7 $\pm$ 3.4
1985-86	<.1 $\pm$ <.1	0.2 $\pm$ 0.1	0.8 $\pm$ 0.7	0.2 $\pm$ 0.1	4.9 $\pm$ 2.9	0.3 $\pm$ 0.2	8.8 $\pm$ 2.0	23.6 $\pm$ 4.4
<b>Sand seatrout</b>								
1983-84	<.1 $\pm$ <.1	6.8 $\pm$ 6.8	0.1 $\pm$ 0.1	3.1 $\pm$ 1.9	9.5 $\pm$ 7.6	0.0	0.1 $\pm$ 0.1	19.6 $\pm$ 10.4
1984-85	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.5 $\pm$ 0.5	0.0	0.4 $\pm$ 0.4	0.0	0.0	1.0 $\pm$ 0.6
1985-86	2.5 $\pm$ 2.5	0.0	0.0	0.0	0.0	<.1 $\pm$ <.1	1.3 $\pm$ 0.8	3.9 $\pm$ 2.7
<b>Sheepshead</b>								
1983-84	0.0	0.0	0.0	0.4 $\pm$ 0.4	1.8 $\pm$ 1.3	0.0	0.6 $\pm$ 0.3	2.8 $\pm$ 1.3
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.3 $\pm$ 0.2	0.3 $\pm$ 0.2
1985-86	0.0	0.0	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1	0.1 $\pm$ 0.1
<b>Southern flounder</b>								
1983-84	0.2 $\pm$ 0.1	0.2 $\pm$ 0.1	0.1 $\pm$ 0.1	0.3 $\pm$ 0.2	1.0 $\pm$ 0.9	0.0	2.5 $\pm$ 0.8	4.2 $\pm$ 1.2
1984-85	0.0	0.0	0.0	0.2 $\pm$ 0.2	0.3 $\pm$ 0.2	<.1 $\pm$ <.1	0.6 $\pm$ 0.3	1.2 $\pm$ 0.4
1985-86	0.7 $\pm$ 0.6	0.1 $\pm$ 0.1	0.2 $\pm$ 0.2	0.1 $\pm$ <.1	<.1 $\pm$ <.1	0.9 $\pm$ 0.6	2.1 $\pm$ 0.7	6.6 $\pm$ 1.6



Table F.3. (Cont'd.)

Species Year	Bay system														
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide <sup>a</sup>
<b>Spotted seatrout</b>															
1983-84	13.6 ±	6.8	10.5 ±	5.2	8.4 ±	7.3	45.1 ±	20.8	41.0 ±	37.4	0.0	74.9 ±	13.8	193.5 ±	46.4
1984-85	4.0 ±	2.6	<.1	<.1	0.4 ±	0.4	0.7 ±	0.4	2.6 ±	1.3	0.0	42.2 ±	12.9	50.0 ±	13.2
1985-86	5.2 ±	4.2	6.4 ±	6.2	0.4 ±	0.3	0.3 ±	0.2	9.9 ±	4.3	2.2 ±	28.1 ±	6.6	68.0 ±	12.5
<b>Other species</b>															
1983-84	0.0		0.3		<.1		0.8		1.0		0.0	0.6		2.8	
1984-85	0.1		0.0		<.1		0.0		0.0		0.0	<.1		0.2	
1985-86	0.0		0.0		0.0		0.0		0.3		0.1	0.3		0.7	
<b>All species combined<sup>a</sup></b>															
1983-84	14.2 ±	7.0	20.6 ±	10.6	9.1 ±	7.3	58.1 ±	23.3	72.9 ±	52.3	0.0	86.9 ±	15.1	261.8 ±	61.0
1984-85	4.6 ±	2.8	0.2 ±	0.1	1.0 ±	1.0	5.9 ±	2.9	6.2 ±	2.8	<.1	49.6 ±	14.1	67.6 ±	15.0
1985-86	10.7 ±	9.0	7.4 ±	6.8	1.3 ±	0.9	0.6 ±	0.2	15.3 ±	6.2	3.6 ±	40.9 ±	8.3	104.0 ±	15.8

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table F.4. Estimated landings of fishes (No. X 1000) ± 1 SE caught by party-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1985).

Species Year	Bay system											Coastwide <sup>a</sup>	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre						
<b>Atlantic croaker</b>													
1983													
Weekend	0.0	0.0	0.0	6.9 ± 6.9	11.6 ± 10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5 ± 12.9
Weekday	0.1 ± 0.1	0.0	0.0	<.1 ± <.1	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.1	0.0	0.0	0.3 ± 0.2
1984													
Weekend	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 ± 0.1
Weekday	<.1 ± <.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1 ± <.1	0.0	0.0	0.1 ± 0.1
1985													
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	<.1 ± <.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1 ± <.1
<b>Black drum</b>													
1983													
Weekend	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.1 ± 0.1	0.2 ± 0.1
Weekday	<.1 ± <.1	0.0	0.0	0.0	2.5 ± 1.8	0.0	0.0	0.0	0.0	0.2 ± 0.1	0.0	0.2 ± 0.1	2.8 ± 1.8
1984													
Weekend	0.0	<.1 ± <.1	<.1 ± <.1	0.0	0.2 ± 0.2	0.0	0.0	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1	0.3 ± 0.2
Weekday	<.1 ± <.1	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.4 ± 0.4	0.0	0.4 ± 0.4	0.6 ± 0.4
1985													
Weekend	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.2	0.0	0.2 ± 0.2	0.3 ± 0.2
Weekday	0.0	0.5 ± 0.5	0.0	0.0	0.0	0.0	0.0	0.0	<.1 ± <.1	0.0	0.0	0.0	0.5 ± 0.5
<b>Gafftopsail catfish</b>													
1983													
Weekend	0.0	0.3 ± 0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3 ± 0.3
Weekday	0.0	0.0	0.0	0.0	2.2 ± 2.2	0.0	0.0	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1	2.3 ± 2.2
1984													
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.1 ± 0.1	<.1 ± <.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 ± 0.1
1985													
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1

Table F.4. (Cont'd.)

Species Year	Bay system									
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower	
							Laguna Madre	Laguna Madre	Laguna Madre	Coastwide <sup>a</sup>
<b>Red drum</b>										
1983										
Weekend	0.0	0.4 ± 0.2	0.3 ± 0.2	0.1 ± 0.1	0.0	0.0	0.0	0.6 ± 0.3	1.4 ± 0.5	
Weekday	0.2 ± 0.2	2.2 ± 1.8	0.2 ± 0.2	1.3 ± 1.0	1.8 ± 1.5	0.0	0.0	4.0 ± 1.2	9.7 ± 2.8	
1984										
Weekend	0.0	<.1 ± <.1	0.0	2.1 ± 1.7	2.1 ± 1.3	0.0	0.0	1.0 ± 0.4	5.2 ± 2.2	
Weekday	0.3 ± 0.2	0.1 ± 0.1	0.0	0.6 ± 0.6	0.5 ± 0.3	0.0	0.0	2.8 ± 1.1	4.3 ± 1.3	
1985										
Weekend	0.0	0.0	0.0	3.2 ± 1.4	0.5 ± 0.5	0.1 ± 0.1	0.1	3.8 ± 1.3	7.6 ± 2.0	
Weekday	0.1 ± 0.1	0.1 ± 0.1	<.1 ± <.1	5.0 ± 5.0	1.0 ± 0.5	0.2 ± 0.1	0.1	2.2 ± 1.0	8.7 ± 2.3	
<b>Sand seatrout</b>										
1983										
Weekend	0.0	6.8 ± 6.8	0.1 ± 0.1	0.2 ± 0.2	2.0 ± 1.6	0.0	0.0	0.0	9.1 ± 7.0	
Weekday	<.1 ± <.1	0.0	0.0	2.9 ± 1.9	7.5 ± 7.5	0.0	0.0	0.1 ± 0.1	10.5 ± 7.7	
1984										
Weekend	0.0	0.0	0.0	0.0	0.4 ± 0.4	0.0	0.0	0.0	0.4 ± 0.4	
Weekday	<.1 ± <.1	<.1 ± <.1	0.5 ± 0.5	0.0	<.1 ± <.1	0.0	0.0	0.0	0.6 ± 0.5	
1985										
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4 ± 0.3	0.4 ± 0.3	
Weekday	2.5 ± 2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9 ± 0.7	3.4 ± 2.6	
<b>Sheepshead</b>										
1983										
Weekend	0.0	0.0	0.0	0.4 ± 0.4	0.0	0.0	0.0	0.1 ± 0.1	0.5 ± 0.4	
Weekday	0.0	0.0	0.0	0.0	1.8 ± 1.3	0.0	0.0	0.4 ± 0.2	2.2 ± 1.3	
1984										
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1	
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.1	0.2 ± 0.1	
1985										
Weekend	0.0	0.0	0.0	<.1 ± <.1	0.0	0.0	0.0	0.0	<.1 ± <.1	
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1	

Table F.4. (Cont'd.)

Species Year	Bay system											Coastwide <sup>a</sup>
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower			
							Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
Southern flounder												
1983												
Weekend	0.0	0.1 ± 0.1	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.8 ± 0.4	1.0 ± 0.4		0.4
Weekday	0.2 ± 0.1	<.1	0.0	0.3 ± 0.2	1.0 ± 0.9	0.0	0.0	0.0	1.6 ± 0.7	3.1 ± 1.1		1.1
1984												
Weekend	0.0	0.0	0.0	<.1	<.1	0.1 ± 0.1	0.0	0.0	0.0	0.2 ± 0.1		0.1
Weekday	0.0	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2	0.2 ± 0.2	<.1	<.1	0.3 ± 0.2	0.7 ± 0.3		0.3
1985												
Weekend	0.0	0.0	0.1 ± 0.1	0.2 ± 0.1	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1	0.5 ± 0.2	0.9 ± 0.3		0.3
Weekday	0.7 ± 0.6	<.1	0.0	1.1 ± 1.0	<.1	<.1	0.3 ± 0.2	0.2	1.4 ± 0.6	3.6 ± 1.3		1.3
Spotted seatrout												
1983												
Weekend	7.2 ± 6.0	4.6 ± 2.5	0.7 ± 0.5	13.0 ± 7.6	0.1 ± 0.1	0.0	0.0	0.0	14.3 ± 3.8	39.9 ± 10.7		10.7
Weekday	6.4 ± 3.4	5.9 ± 4.6	7.7 ± 7.2	32.1 ± 19.4	40.9 ± 37.4	0.0	0.0	0.0	42.4 ± 9.5	135.4 ± 44.2		44.2
1984												
Weekend	0.0	<.1	0.0	0.1 ± 0.1	1.1 ± 0.6	0.0	0.0	0.0	8.7 ± 4.9	9.9 ± 5.0		5.0
Weekday	4.0 ± 2.6	0.0	0.4 ± 0.4	0.6 ± 0.4	1.5 ± 1.2	0.0	0.0	0.0	12.4 ± 4.2	19.0 ± 5.1		5.1
1985												
Weekend	0.0	0.0	<.1	2.3 ± 1.2	0.6 ± 0.5	0.3 ± 0.3	0.3 ± 0.3	0.3 ± 0.3	7.5 ± 2.4	10.8 ± 2.7		2.7
Weekday	5.2 ± 4.2	6.2 ± 6.2	0.1 ± 0.1	3.4 ± 1.5	7.1 ± 4.0	0.7 ± 0.3	0.7 ± 0.3	0.7 ± 0.3	9.0 ± 2.8	31.8 ± 9.1		9.1
Other species												
1983												
Weekend	0.0	0.2	<.1	0.4	0.7	0.0	0.0	0.0	0.0	1.4		1.4
Weekday	0.0	<.1	0.0	0.4	0.3	0.0	0.0	0.0	0.2	1.0		1.0
1984												
Weekend	0.0	0.0	<.1	0.0	0.0	0.0	0.0	0.0	0.0	<.1		<.1
Weekday	0.1	0.0	<.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2		0.2
1985												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	<.1	<.1	0.2	0.2		0.2
Weekday	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.1	0.5		0.5

Table F.4. (Cont'd.)

Species Year	Bay system														
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide <sup>a</sup>
	Day type	Year	Day type	Year	Day type	Year	Day type	Year	Day type	Year	Day type	Year	Day type	Year	
All species combined <sup>a</sup>															
1983															
Weekend	7.2 ±	6.0	12.5 ±	8.5	1.2 ±	0.8	21.0 ±	10.9	14.4 ±	11.7	0.0	16.0 ±	4.3	72.3 ±	19.6
Weekday	7.0 ±	3.6	8.1 ±	6.3	7.9 ±	7.3	37.1 ±	20.6	58.2 ±	51.0	0.0	49.0 ±	10.3	167.3 ±	56.9
1984															
Weekend	0.0		0.1 ±	0.1	<.1 ±	<.1	2.3 ±	1.7	4.0 ±	2.2	0.0	9.7 ±	5.0	16.1 ±	5.7
Weekday	4.6 ±	2.8	0.2 ±	0.1	1.0 ±	1.0	1.6 ±	1.1	2.2 ±	1.6	<.1 ±	16.2 ±	5.4	25.7 ±	6.4
1985															
Weekend	0.0		0.0		0.1 ±	0.1	5.8 ±	2.3	1.2 ±	0.7	0.6 ±	12.6 ±	3.7	20.4 ±	4.4
Weekday	8.5 ±	6.0	6.8 ±	6.8	0.2 ±	0.2	9.6 ±	3.8	8.6 ±	4.7	1.2 ±	13.6 ±	4.2	48.8 ±	11.7

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.









Table F.5. (Cont'd.)

Species Year	Bay system										Coastwide <sup>a</sup>		
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower				
							Laguna	Madre	Laguna	Madre			
All species combined <sup>a</sup>													
1983-84													
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1 ±	8.5	13.1 ±	8.5	
Weekday	0.0	0.0	0.0	0.0	0.0	0.3 ±	0.3	0.0	8.8 ±	5.6	9.1 ±	5.6	
1984-85													
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7 ±	7.5	9.7 ±	7.5	
Weekday	0.0	0.0	0.0	2.1 ±	2.1	0.0	0.0	0.0	13.9 ±	9.5	16.0 ±	9.7	
1985-86													
Weekend	0.0	0.1 ±	0.1	0.0	2.5 ±	1.4	0.0	0.0	4.4 ±	3.3	7.0 ±	3.6	
Weekday	0.0	0.4 ±	0.4	0.8 ±	0.8	9.2 ±	5.8	5.5 ±	4.1	1.8 ±	1.8	27.9 ±	9.0

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual species totals.

Table F.6. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes by species and bay system (1983-1986).

Species Year	Bay system															
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
<b>Atlantic croaker</b>																
1983-84	0.01 $\pm$ 0.01	0.00	0.00	0.18 $\pm$ 0.18	0.19 $\pm$ 0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07 $\pm$ 0.05
1984-85	<0.01 $\pm$ <0.01	0.00	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01
1985-86	0.00	0.03 $\pm$ 0.03	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01
<b>Black drum</b>																
1983-84	<0.01 $\pm$ <0.01	0.00	0.00	<0.01 $\pm$ <0.01	0.04 $\pm$ 0.03	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02 $\pm$ 0.01
1984-85	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 $\pm$ <0.01
1985-86	0.00	0.09 $\pm$ 0.09	0.00	0.01 $\pm$ <0.01	0.00	0.00	0.00	0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01
<b>Gafftopsail catfish</b>																
1983-84	0.00	0.01 $\pm$ 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04 $\pm$ 0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01 $\pm$ 0.01
1984-85	0.00	0.00	0.00	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.00	0.00	0.01 $\pm$ 0.01	<0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01
1985-86	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01
<b>Red drum</b>																
1983-84	0.01 $\pm$ 0.01	0.12 $\pm$ 0.09	0.06 $\pm$ 0.04	0.04 $\pm$ 0.03	0.03 $\pm$ 0.03	0.00	0.00	0.04 $\pm$ 0.03	0.03 $\pm$ 0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05 $\pm$ 0.02
1984-85	0.03 $\pm$ 0.03	0.19 $\pm$ 0.17	0.00	0.27 $\pm$ 0.18	0.12 $\pm$ 0.07	0.00	0.00	0.12 $\pm$ 0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11 $\pm$ 0.03
1985-86	<0.01 $\pm$ <0.01	0.04 $\pm$ 0.04	0.12 $\pm$ 0.11	0.18 $\pm$ 0.07	0.15 $\pm$ 0.10	0.00	0.00	0.18 $\pm$ 0.07	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.11 $\pm$ 0.03
<b>Sand seatrout</b>																
1983-84	<0.01 $\pm$ <0.01	0.33 $\pm$ 0.33	0.01 $\pm$ 0.01	0.08 $\pm$ 0.05	0.15 $\pm$ 0.14	0.00	0.00	0.08 $\pm$ 0.05	0.02 $\pm$ 0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.08 $\pm$ 0.04
1984-85	<0.01 $\pm$ <0.01	0.01 $\pm$ 0.01	0.82 $\pm$ 0.82	0.00	0.02 $\pm$ 0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 $\pm$ <0.01
1985-86	0.24 $\pm$ 0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	<0.01 $\pm$ <0.01	0.02 $\pm$ 0.01
<b>Sheepshead</b>																
1983-84	0.00	0.00	0.00	0.01 $\pm$ 0.01	0.03 $\pm$ 0.02	0.00	0.00	0.01 $\pm$ 0.01	0.03 $\pm$ 0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01 $\pm$ 0.01
1984-85	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	<0.01 $\pm$ <0.01
1985-86	0.00	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	<0.01 $\pm$ <0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01 $\pm$ <0.01
<b>Southern flounder</b>																
1983-84	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02 $\pm$ 0.01
1984-85	0.00	0.00	0.00	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.06 $\pm$ 0.06	0.00	0.00	0.00	0.00	0.00	0.01 $\pm$ <0.01
1985-86	0.07 $\pm$ 0.07	0.02 $\pm$ 0.02	0.03 $\pm$ 0.03	0.05 $\pm$ 0.03	0.00	0.00	0.00	0.05 $\pm$ 0.03	0.00	0.02 $\pm$ 0.02	0.00	0.00	0.00	0.00	0.00	0.03 $\pm$ 0.01

Table F.6. (Cont'd.)

Species Year	Bay system														
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper		Lower		Coastwide
											Laguna	Madre	Laguna	Madre	
<b>Spotted seatrout</b>															
1983-84	0.62 ± 0.41	0.50 ± 0.31	0.98 ± 0.90	1.17 ± 0.64	0.66 ± 0.63	0.00	0.77 ± 0.23	0.77 ± 0.24							
1984-85	0.39 ± 0.30	0.03 ± 0.03	0.71 ± 0.71	0.04 ± 0.03	0.12 ± 0.08	0.00	0.56 ± 0.21	0.39 ± 0.12							
1985-86	0.48 ± 0.46	1.20 ± 1.18	0.06 ± 0.05	0.35 ± 0.15	0.31 ± 0.18	0.05 ± 0.05	0.35 ± 0.10	0.30 ± 0.08							
<b>Other species</b>															
1983-84	0.00	0.01	<.01	0.02	0.02	0.00	0.01	0.01							
1984-85	0.01	0.00	0.07	0.00	0.00	0.00	0.00	<.01							
1985-86	0.00	0.00	0.00	0.00	0.01	<.01	<.01	<.01							
<b>All species combined<sup>a</sup></b>															
1983-84	0.65 ± 0.42	0.99 ± 0.62	1.06 ± 0.93	1.51 ± 0.76	1.17 ± 1.02	0.00	0.89 ± 0.26	1.05 ± 0.33							
1984-85	0.44 ± 0.34	0.24 ± 0.21	1.61 ± 1.60	0.34 ± 0.21	0.28 ± 0.17	0.06 ± 0.06	0.66 ± 0.24	0.53 ± 0.15							
1985-86	0.80 ± 0.74	1.38 ± 1.33	0.20 ± 0.15	0.59 ± 0.21	0.47 ± 0.27	0.08 ± 0.08	0.50 ± 0.13	0.46 ± 0.12							

<sup>a</sup>Due to rounding of numbers these totals may not exactly equal individual totals.

Table F.7. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1985). Blank = no fishermen interviewed.

Species Year Day type	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Atlantic croaker								
1983								
Weekend	0.00	0.00	0.00	0.53 $\pm$ 0.53	2.53 $\pm$ 2.44	0.00	0.00	0.36 $\pm$ 0.25
Weekday	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1984								
Weekend		0.00	0.00	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
Weekday	<.01 $\pm$ <.01	0.00	0.00	0.00	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985								
Weekend			0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	<.01 $\pm$ <.01	0.00	0.00	0.00	<.01 $\pm$ 0.01
Black drum								
1983								
Weekend	0.00	0.00	0.00	<.01 $\pm$ <.01	0.00	0.00	0.01 $\pm$ 0.01	<.01 $\pm$ <.01
Weekday	<.01 $\pm$ <.01	0.00	0.00	0.00	0.05 $\pm$ 0.04	0.00	<.01 $\pm$ <.01	0.02 $\pm$ 0.01
1984								
Weekend		0.04 $\pm$ 0.04	0.07 $\pm$ 0.07	0.00	0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01	0.01 $\pm$ 0.01
Weekday	<.01 $\pm$ <.01	0.00	0.00	0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
1985								
Weekend			0.00	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
Weekday	0.00	0.12	0.00	0.00	0.00	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ 0.01
Gafftopsail catfish								
1983								
Weekend	0.00	0.03 $\pm$ 0.03	0.00	0.00	0.00	0.00	0.00	0.01 $\pm$ 0.01
Weekday	0.00	0.00	0.00	0.00	0.04 $\pm$ 0.04	0.00	0.00	0.01 $\pm$ 0.01
1984								
Weekend		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1985								
Weekend			0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01

Table F.7. (Cont'd.)

Species Year	Bay system										
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide
							Laguna Madre	Laguna Madre			
Red drum											
1983											
Weekend	0.00	0.03 ± 0.02	0.24 ± 0.19	0.01 ± 0.01	0.00	0.00	0.00	0.04 ± 0.02	0.03 ± 0.01		
Weekday	0.01 ± 0.01	0.24 ± 0.21	0.02 ± 0.02	0.05 ± 0.04	0.03 ± 0.03			0.09 ± 0.03	0.06 ± 0.03		
1984											
Weekend		0.31 ± 0.31	0.00	0.60 ± 0.54	0.11 ± 0.08			0.07 ± 0.04	0.15 ± 0.07		
Weekday	0.03 ± 0.03	0.18 ± 0.17	0.00	0.06 ± 0.06	0.12 ± 0.11	0.00	0.00	0.09 ± 0.05	0.08 ± 0.03		
1985											
Weekend		0.03 ± 0.03	0.00	0.28 ± 0.16	0.27 ± 0.27	0.11 ± 0.10		0.11 ± 0.04	0.14 ± 0.05		
Weekday	<.01 ± <.01	0.03 ± 0.03	0.04 ± 0.04	0.29 ± 0.15	0.07 ± 0.05	0.12 ± 0.09		0.08 ± 0.04	0.11 ± 0.04		
Sand seatrout											
1983											
Weekend	0.00	0.58 ± 0.58	0.06 ± 0.06	0.01 ± 0.01	0.43 ± 0.38	0.00		0.00	0.17 ± 0.14		
Weekday	<.01 ± <.01	0.00	0.00	0.12 ± 0.08	0.14 ± 0.14			<.01 ± <.01	0.07 ± 0.05		
1984											
Weekend		0.00	0.00	0.00	0.00	0.02 ± 0.02	0.00	0.00	0.01 ± 0.01		
Weekday	<.01 ± <.01	0.01 ± 0.01	0.97 ± 0.97	0.00	<.01 ± <.01			0.00	0.01 ± 0.01		
1985											
Weekend		0.24 ± 0.24	0.00	0.00	0.00	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01		
Weekday			0.00	0.00	0.00	0.00	0.00	0.03 ± 0.03	0.04 ± 0.04		
Sheepshead											
1983											
Weekend	0.00	0.00	0.00	0.03 ± 0.03	0.00	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01		
Weekday	0.00	0.00	0.00	0.00	0.03 ± 0.03			0.01 ± <.01	0.01 ± <.01		
1984											
Weekend		0.00	0.00	0.00	0.00	0.00		<.01 ± <.01	<.01 ± <.01		
Weekday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 ± 0.01	<.01 ± <.01		
1985											
Weekend			0.00	<.01 ± <.01	0.00	0.00	0.00	0.00	<.01 ± <.01		
Weekday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<.01 ± <.01	<.01 ± <.01		

Table F.7. (Cont'd.)

Species Year	Bay system											
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide	
							Laguna	Madre	Laguna	Madre		
Southern flounder												
1983												
Weekend	0.00	0.01 ± 0.01	0.06 ± 0.06	0.00	0.00	0.00	0.00	0.06 ± 0.03	0.02 ± 0.01			
Weekday	0.01 ± 0.01	<0.01 ± <0.01	0.00	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.02	0.06 ± 0.06	0.04 ± 0.02	0.02 ± 0.01			
1984												
Weekend		0.00	0.00	0.01 ± 0.01	0.01 ± 0.01	0.01 ± <0.01		0.00	<0.01 ± <0.01			
Weekday	0.00	0.00	0.00	0.02 ± 0.02	0.05 ± 0.05	0.05 ± 0.05	0.06 ± 0.06	0.01 ± 0.01	0.01 ± 0.01			
1985												
Weekend			0.86 ± 0.86	0.02 ± 0.01	0.00	0.00	0.10 ± 0.10	0.01 ± 0.01	0.02 ± 0.01			
Weekday	0.07 ± 0.07	<0.01 ± <0.01	0.00	0.07 ± 0.06	<0.01 ± <0.01	<0.01 ± <0.01	0.21 ± 0.17	0.05 ± 0.03	0.05 ± 0.02			
Spotted seatrout												
1983												
Weekend	0.99 ± 0.91	0.40 ± 0.28	0.53 ± 0.42	1.01 ± 0.70	0.02 ± 0.02	0.02 ± 0.02	0.00	1.02 ± 0.37	0.77 ± 0.26			
Weekday	0.44 ± 0.33	0.64 ± 0.56	1.07 ± 1.03	1.26 ± 0.88	0.79 ± 0.77	0.79 ± 0.77		0.94 ± 0.31	0.88 ± 0.39			
1984												
Weekend		0.23 ± 0.23	0.00	0.03 ± 0.03	0.06 ± 0.04	0.06 ± 0.04		0.67 ± 0.43	0.28 ± 0.16			
Weekday	0.39 ± 0.30	0.00	0.84 ± 0.84	0.07 ± 0.06	0.39 ± 0.37	0.39 ± 0.37	0.00	0.42 ± 0.19	0.35 ± 0.13			
1985												
Weekend			0.01 ± 0.01	0.20 ± 0.12	0.29 ± 0.25	0.29 ± 0.25	0.27 ± 0.23	0.21 ± 0.08	0.21 ± 0.06			
Weekday	0.48 ± 0.46	1.57 ± 1.57	0.13 ± 0.13	0.20 ± 0.11	0.49 ± 0.34	0.49 ± 0.34	0.47 ± 0.31	0.34 ± 0.14	0.42 ± 0.14			
Other species												
1983												
Weekend	0.00	0.02	0.01	0.03	0.15	0.15	0.00	0.00	0.03			
Weekday	0.00	<0.01	0.00	0.02	0.01	0.01		<0.01	0.01			
1984												
Weekend		0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00			
Weekday	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.00	<0.01			
1985												
Weekend			0.00	0.00	0.00	0.00	0.04 ± 0.03	0.01 ± <0.01	<0.01 ± <0.01			
Weekday	0.00	0.00	0.00	0.00	0.02	0.02	0.04 ± 0.03	<0.01 ± <0.01	0.01 ± <0.01			

Table F.7. (Cont'd.)

Species Year	Bay system									
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
All species combined <sup>a</sup>										
1983										
Weekend	0.99 ± 0.91	1.07 ± 0.84	0.89 ± 0.69	1.63 ± 1.08	3.14 ± 2.78	0.00	1.14 ± 0.42	1.39 ± 0.47		
Weekday	0.48 ± 0.36	0.88 ± 0.78	1.09 ± 1.05	1.46 ± 0.97	1.12 ± 1.08		1.08 ± 0.34	1.09 ± 0.49		
1984										
Weekend		0.58 ± 0.58	0.15 ± 0.15	0.64 ± 0.57	0.22 ± 0.16		0.75 ± 0.45	0.46 ± 0.21		
Weekday	0.44 ± 0.34	0.19 ± 0.18	1.87 ± 1.87	0.18 ± 0.16	0.57 ± 0.53	0.06 ± 0.06	0.54 ± 0.25	0.47 ± 0.16		
1985										
Weekend			0.09 ± 0.09	0.50 ± 0.27	0.56 ± 0.42	0.53 ± 0.42	0.35 ± 0.13	0.39 ± 0.11		
Weekday	0.80 ± 0.74	1.73 ± 1.72	0.16 ± 0.16	0.56 ± 0.29	0.59 ± 0.41	0.84 ± 0.55	0.51 ± 0.22	0.64 ± 0.20		

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table F.8. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes during the low-use season by species, day type and bay system (1983-1986). Blank = no fishermen interviewed.

Species Year	Bay system										
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide
							Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	
<b>Atlantic croaker</b>											
1983-84											
Weekend									0.00		0.00
Weekday						0.00		0.00	0.00		0.00
1984-85											
Weekend					0.00						<.01 $\pm$ <.01
Weekday					0.00				0.00		0.00
1985-86											
Weekend					0.00				0.00		0.00
Weekday				0.00	0.00			0.00	0.00		<.01 $\pm$ <.01
<b>Black drum</b>											
1983-84											
Weekend									0.16 $\pm$ 0.15		0.16 $\pm$ 0.15
Weekday						0.00		0.00	0.02 $\pm$ 0.02		0.01 $\pm$ 0.01
1984-85											
Weekend					0.00				0.00		0.00
Weekday					0.00				0.00		0.00
1985-86											
Weekend					0.01 $\pm$ 0.01				0.00		<.01 $\pm$ <.01
Weekday				0.00	0.02 $\pm$ 0.02			0.00	0.00		<.01 $\pm$ <.01
<b>Gafftopsail catfish</b>											
1983-84											
Weekend									0.00		0.00
Weekday								0.05 $\pm$ 0.05	0.00		0.01 $\pm$ 0.01
1984-85											
Weekend					0.00				0.00		0.00
Weekday					0.00				0.00		0.00
1985-86											
Weekend					0.00				0.00		0.00
Weekday				0.00	0.00			0.00	0.00		0.00



Table F.8. (Cont'd.)

Species Year	Bay system									
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower	
							Laguna Madre	Laguna Madre		Coastwide
Red drum										
1983-84										
Weekend								0.00	0.00	
Weekday						0.00	0.00	0.04 ± 0.03	0.03 ± 0.03	
1984-85										
Weekend					0.00					
Weekday					0.48 ± 0.48			0.04 ± 0.03	0.04 ± 0.03	
1985-86								0.08 ± 0.07	0.16 ± 0.13	
Weekend					0.04 ± 0.03			0.06 ± 0.06	0.06 ± 0.04	
Weekday					0.00	0.21 ± 0.20	0.00	0.21 ± 0.13	0.08 ± 0.05	
Sand seatrout										
1983-84										
Weekend								0.00	0.00	
Weekday						0.00	0.00	0.00	0.00	
1984-85										
Weekend					0.00			0.00	0.00	
Weekday					0.00			0.00	0.00	
1985-86										
Weekend					0.00			0.00	0.00	
Weekday					0.00	0.21 ± 0.20	<.01 ± <.01	0.00	<.01 ± <.01	
Sheepshead										
1983-84										
Weekend								0.00	0.00	
Weekday						0.00	0.00	<.01 ± <.01	<.01 ± <.01	
1984-85										
Weekend					0.00			0.01 ± <.01	0.01 ± <.01	
Weekday					0.00			0.00	0.00	
1985-86										
Weekend					0.00			0.00	0.00	
Weekday					0.00	0.00	0.00	0.00	0.00	



Table F.8. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>								
1983-84								
Weekend							1.27 ± 0.99	1.27 ± 0.99
Weekday					0.05 ± 0.05	0.00	0.31 ± 0.26	0.27 ± 0.20
1984-85								
Weekend				0.00			0.62 ± 0.54	0.59 ± 0.51
Weekday				0.48 ± 0.48			0.82 ± 0.68	0.75 ± 0.56
1985-86								
Weekend		0.30 ± 0.30		0.34 ± 0.27			0.53 ± 0.45	0.44 ± 0.28
Weekday		0.42 ± 0.42	0.35 ± 0.35	0.94 ± 0.73	0.35 ± 0.31	0.04 ± 0.04	0.44 ± 0.61	0.35 ± 0.20

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table F.9. Mean catch rates of fishes (No./man-h) caught by party-boat fishermen in Texas bays and passes during June-August by species and bay system (1979-1985)<sup>a</sup>. ND = no data. Number in parenthesis indicates number of interviews.

Bay system Year	Spotted seatrout	Other	Total
<b>Galveston</b>			
1979 ( 2)	0.88 ± 0.01	0.19 ± 0.19	1.07 ± 0.18
1981 (13)	1.14 ± 0.26	0.15 ± 0.07	1.29 ± 0.24
1982 ( 8)	1.49 ± 0.37	0.35 ± 0.31	1.83 ± 0.42
1983 ( 3)	0.99 ± 0.88	0.00	0.99 ± 0.88
1984 ( 5)	0.36 ± 0.31	0.06	0.42 ± 0.35
1985 ( 3)	0.46 ± 0.46	0.08	0.54 ± 0.54
<b>Matagorda<sup>b</sup></b>			
1979 ( 0)	ND	ND	ND
1981 ( 0)	ND	ND	ND
1982 (13)	1.16 ± 0.41	0.25 ± 0.10	1.43 ± 0.48
1983 ( 6)	0.40 ± 0.29	0.74	1.14 ± 0.92
1984 ( 3)	0.03 ± 0.03	0.21	0.24 ± 0.21
1985 ( 1)	0.00	0.00	0.00
<b>San Antonio<sup>b</sup></b>			
1979 ( 0)	ND	ND	ND
1981 ( 0)	ND	ND	ND
1982 (13)	1.16 ± 0.41	0.25 ± 0.10	1.43 ± 0.48
1983 ( 2)	0.23 ± 0.22	0.07	0.30 ± 0.29
1984 ( 2)	0.84 ± 0.84	1.03	1.87 ± 1.87
1985 ( 5)	0.06 ± 0.06	0.06	0.12 ± 0.10
<b>Aransas<sup>c</sup></b>			
1979 ( 6)	1.03 ± 0.37	0.13 ± 0.08	1.17 ± 0.38
1981 (30)	2.07 ± 0.23	0.10 ± 0.04	2.17 ± 0.22
1982 (35)	1.49 ± 0.20	0.37 ± 0.13	1.86 ± 0.21
1983 (15)	1.49 ± 0.98	0.17	1.66 ± 1.06
1984 ( 1)	0.00	11.11	11.11 ± 1.11
1985 (23)	0.22 ± 0.11	0.28	0.50 ± 0.24
<b>Corpus Christi<sup>c</sup></b>			
1979 ( 6)	1.03 ± 0.37	0.13 ± 0.08	1.17 ± 0.38
1981 (30)	2.07 ± 0.23	0.10 ± 0.04	2.17 ± 0.22
1982 (35)	1.49 ± 0.20	0.37 ± 0.13	1.86 ± 0.21
1983 ( 4)	0.86 ± 0.85	0.30	1.16 ± 1.15
1984 ( 7)	0.13 ± 0.10	0.11	0.24 ± 0.19
1985 (14)	0.41 ± 0.31	0.14	0.55 ± 0.39
<b>Upper Laguna Madre<sup>c</sup></b>			
1979 ( 6)	1.03 ± 0.37	0.13 ± 0.08	1.17 ± 0.38
1981 (30)	2.07 ± 0.23	0.10 ± 0.04	2.17 ± 0.22
1982 (35)	1.49 ± 0.20	0.37 ± 0.13	1.86 ± 0.21
1983 ( 1)	0.00	0.00	0.00
1984 ( 1)	0.00	0.06	0.06 ± 0.06
1985 ( 4)	0.30 ± 0.24	0.28	0.58 ± 0.43

Table F.9. (Cont'd.)

Bay system Year	Spotted seatrout	Other	Total
Lower Laguna Madre			
1979 (10)	1.26 ± 0.29	0.04 ± 0.02	1.31 ± 0.28
1981 (24)	1.78 ± 0.23	0.05 ± 0.01	1.83 ± 0.22
1982 (39)	2.04 ± 0.23	0.11 ± 0.04	2.14 ± 0.23
1983 (48)	0.76 ± 0.32	0.12	0.88 ± 0.35
1984 (46)	0.61 ± 0.31	0.08	0.68 ± 0.34
1985 (48)	0.26 ± 0.10	0.18	0.44 ± 0.16
Coastwide <sup>d</sup>			
1979 (18)	1.14 ± 0.31	0.09 ± 0.08	1.24 ± 0.31
1981 (67)	1.79 ± 0.24	0.09 ± 0.04	1.88 ± 0.23
1982 (95)	1.67 ± 0.27	0.24 ± 0.13	1.91 ± 0.29
1983 (79)	0.91 ± 0.49	0.24	1.15 ± 0.63
1984 (65)	0.46 ± 0.19	0.12	0.58 ± 0.22
1985 (98)	0.29 ± 0.09	0.18	0.47 ± 0.13

<sup>a</sup> 1979-1982 data from McEachron (1984).

<sup>b</sup> Matagorda and San Antonio data were combined during 1979-1982.

<sup>c</sup> Aransas, Corpus Christi, and Upper Laguna Madre data were combined during 1979-1982.

<sup>d</sup> For 1979-1982 coastwide means, Matagorda/San Antonio and Aransas/Corpus Christi/Upper Laguna Madre means are used as means for one combined area mean.

Table F.10. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes by species and bay system (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Bay system																				
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi		Upper		Lower											
						Christi	Madre	Laguna	Madre	Laguna	Madre	Coastwide									
Atlantic croaker																					
1983-84	0.24				0.46 $\pm$ <.01		0.30 $\pm$ 0.02							0.40 $\pm$ 0.02						0.36 $\pm$ 0.01	
1984-85	0.14						0.31							0.42 $\pm$ 0.08						0.33 $\pm$ 0.17	
1985-86					0.20															0.20	
Black drum																					
1983-84	1.21				1.03		0.80							2.05 $\pm$ 0.21						1.41 $\pm$ 0.52	
1984-85	2.53		1.07	1.11	1.11		1.79							2.01 $\pm$ 0.03						1.84 $\pm$ 0.74	
1985-86			0.64		0.72				0.95					3.06 $\pm$ 0.10						1.10 $\pm$ 0.57	
Gafftopsail catfish																					
1983-84			0.70				1.76 $\pm$ 0.01							3.60						1.65 $\pm$ 0.09	
1984-85					0.72		0.67													0.72	
1985-86							0.55													0.55	
Red drum																					
1983-84	0.84		1.44 $\pm$ 0.19	1.59 $\pm$ 0.22	1.31 $\pm$ 0.18		1.22 $\pm$ 0.51							1.44 $\pm$ 0.12						1.39 $\pm$ 0.21	
1984-85	2.99 $\pm$ 0.30		2.17 $\pm$ 0.27		2.24 $\pm$ 0.57		2.52 $\pm$ 0.31							2.12 $\pm$ 0.09						2.26 $\pm$ 0.31	
1985-86	1.55		1.71 $\pm$ 0.60	1.17 $\pm$ 0.16	1.80 $\pm$ 0.12		2.05 $\pm$ 0.34		1.85 $\pm$ 0.10					2.22 $\pm$ 0.20						1.98 $\pm$ 0.21	
Sand seatrout																					
1983-84	0.47		0.27	0.26	0.23 $\pm$ 0.02		0.34 $\pm$ 0.01							0.23						0.30 $\pm$ 0.10	
1984-85	0.23		0.41				0.32 $\pm$ 0.03													0.31 $\pm$ 0.06	
1985-86	0.28								0.51					0.27 $\pm$ 0.05						0.28 $\pm$ 0.20	
Sheepshead																					
1983-84					0.68		0.96 $\pm$ 0.17							0.62 $\pm$ 0.08						0.85 $\pm$ 0.22	
1984-85														0.97 $\pm$ 0.20						0.97 $\pm$ 0.20	
1985-86					0.98									0.69						0.85	
Southern flounder																					
1983-84	0.45 $\pm$ 0.16				0.32 $\pm$ 0.10		0.55 $\pm$ 0.06							0.72 $\pm$ 0.05						0.64 $\pm$ 0.06	
1984-85					0.62 $\pm$ 0.08		1.55							0.57 $\pm$ 0.08						0.84 $\pm$ 0.47	
1985-86	0.27 $\pm$ 0.01		0.50	0.56	0.58 $\pm$ 0.03		0.20		0.59 $\pm$ 0.07				0.52 $\pm$ 0.07							0.52 $\pm$ 0.07	

Table F.10. (Cont'd.)

Species Year	Bay system									
	Day type	San			Corpus Christi	Upper		Lower		Coastwide
		Galveston	Matagorda	Antonio		Aransas	Laguna Madre	Laguna Madre		
Spotted seatrout										
1983-84	1.06 ± 0.18	0.45 ± 0.02	0.45 ± 0.04	0.45 ± 0.03	0.75 ± 0.20			0.79 ± 0.07	0.69 ± 0.09	
1984-85	0.92 ± 0.01	1.19		0.66 ± 0.07	0.91 ± 0.16			0.63 ± 0.03	0.67 ± 0.03	
1985-86	0.57 ± 0.03	0.73	0.48 ± 0.02	1.70 ± 0.04	0.69 ± 0.04	0.63 ± 0.04		0.81 ± 0.05	0.73 ± 0.11	
All species combined <sup>a</sup>										
1983-84	0.93 ± 0.16	0.45 ± 0.08	0.47 ± 0.14	0.48 ± 0.08	0.60 ± 0.12			0.78 ± 0.06	0.63 ± 0.09	
1984-85	1.27 ± 0.27	1.52 ± 0.21	1.10	1.76 ± 0.55	1.42 ± 0.23			0.90 ± 0.09	1.05 ± 0.17	
1985-86	0.43 ± 0.09	0.80 ± 0.00	0.99 ± 0.13	1.10 ± 0.10	0.94 ± 0.10	0.75 ± 0.10		1.19 ± 0.15	1.02 ± 0.10	

<sup>a</sup>Includes "other" species

Table F.11. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year Day type	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Upper		Lower	
					Christi	Laguna Madre		
Atlantic croaker								
1983								
Weekend				0.47	0.30 $\pm$ 0.02			0.36 $\pm$ 0.19
Weekday	0.24			0.40			0.40 $\pm$ 0.02	0.34 $\pm$ 0.14
1984								
Weekend					0.31			0.31
Weekday	0.14						0.33	0.22 $\pm$ 0.22
1985								
Weekend								
Weekday				0.20				0.20
Black drum								
1983								
Weekend				1.03			0.21	0.43 $\pm$ 0.43
Weekday	1.21				0.80		1.97 $\pm$ 0.41	0.88 $\pm$ 0.78
1984								
Weekend		1.07	1.11		1.79		1.88	1.77 $\pm$ 1.77
Weekday	2.53			1.11			2.02	1.87 $\pm$ 0.32
1985								
Weekend				0.72			3.06 $\pm$ 0.10	2.25 $\pm$ 0.31
Weekday		0.64				0.95		0.65
Gafftopsail catfish								
1983								
Weekend								0.70
Weekday		0.70			1.75		3.60	1.76 $\pm$ 1.76
1984								
Weekend								
Weekday				0.72	0.67			0.72 $\pm$ 0.72
1985								
Weekend								
Weekday					0.55			0.55



Table F.11. (Cont'd.)

Species Year	Bay system															
	Day type	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper		Lower		
												Laguna	Madre	Laguna	Madre	Coastwide
Red drum																
1983																
Weekend			1.10		1.70 ± 0.15		1.90 ± 0.19							0.98 ± 0.08		1.24 ± 0.37
Weekday	0.84		1.54 ± 0.18		0.78		1.28 ± 0.21			1.22 ± 0.51				0.76 ± 0.09		1.41 ± 0.25
1984																
Weekend			2.41				1.41			2.30 ± 0.48				1.97 ± 0.08		1.88 ± 0.80
Weekday	2.99 ± 0.30		1.51 ± 0.32				3.27			2.88				2.21 ± 0.08		2.46 ± 0.84
1985																
Weekend							1.90 ± 0.27			1.72		2.13 ± 0.34		2.34 ± 0.36		2.11 ± 0.42
Weekday	1.55		1.71 ± 0.60		1.60		1.72 ± 0.10			2.27 ± 0.52		1.68 ± 0.17		2.00 ± 0.16		1.86 ± 0.20
Sand seatrout																
1983																
Weekend							0.44			0.36 ± 0.02				0.29 ± 0.22		0.29 ± 0.22
Weekday	0.47		0.27		0.26		0.22 ± 0.01			0.33				0.23		0.30 ± 0.24
1984																
Weekend										0.30						0.30
Weekday	0.23		0.41							0.40						0.30 ± 0.30
1985																
Weekend														0.19 ± 0.00		0.19 ± 0.00
Weekday	0.28													0.31 ± 0.07		0.29 ± 0.22
Sheepshead																
1983																
Weekend							0.68							1.04		0.77 ± 0.77
Weekday										0.96 ± 0.17				0.59 ± 0.06		0.90 ± 0.15
1984																
Weekend														1.62		1.62
Weekday														0.80 ± 0.09		0.80 ± 0.09
1985																
Weekend							0.98									0.98
Weekday														0.69		0.69

Table F.11. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
Southern flounder										
1983										
Weekend									0.72 ± 0.09	0.72 ± 0.09
Weekday	0.45 ± 0.16				0.55 ± 0.06				0.73 ± 0.06	0.62 ± 0.07
1984										
Weekend					1.55				0.57 ± 0.08	1.35 ± 1.35
Weekday				0.73						0.57 ± 0.29
1985										
Weekend			0.56			0.48			0.58 ± 0.07	0.57 ± 0.23
Weekday	0.27 ± 0.01	0.50		0.62 ± 0.10	0.20	0.52 ± 0.03			0.48 ± 0.09	0.47 ± 0.06
				0.59 ± 0.04						
Spotted seatrout										
1983										
Weekend			0.38	0.46 ± 0.08					0.78 ± 0.08	0.63 ± 0.08
Weekday	0.78 ± 0.06	0.44 ± 0.02	0.50 ± 0.03	0.45 ± 0.02	0.75 ± 0.20				0.76 ± 0.09	0.68 ± 0.11
1984										
Weekend		1.19		0.70	1.09 ± 0.15				0.58 ± 0.03	0.64 ± 0.06
Weekday	0.92 ± 0.01			0.64 ± 0.12	0.72 ± 0.10				0.61 ± 0.04	0.69 ± 0.04
1985										
Weekend			0.47	0.68 ± 0.10	0.52	0.52 ± 0.02			0.76 ± 0.07	0.72 ± 0.10
Weekday	0.57 ± 0.03	0.73		0.71 ± 0.07	0.70 ± 0.05	0.70 ± 0.06			0.80 ± 0.06	0.71 ± 0.10
All species combined <sup>a</sup>										
1983										
Weekend	0.74 ± 0.07	0.38 ± 0.04	0.52 ± 0.37	0.47 ± 0.10	0.28 ± 0.03				0.73 ± 0.08	0.50 ± 0.07
Weekday	1.07 ± 0.24	0.80 ± 0.18	0.42 ± 0.04	0.49 ± 0.12	0.72 ± 0.12				0.75 ± 0.08	0.68 ± 0.11
1984										
Weekend	1.27 ± 0.27	1.70 ± 1.70	1.10	1.20 ± 1.20	1.49 ± 0.26				0.83 ± 0.18	1.05 ± 0.35
Weekday		1.00 ± <.01		1.14 ± 0.76	1.33 ± 0.57				0.96 ± 0.12	1.06 ± 0.23
1985										
Weekend	0.43 ± 0.09	0.80 ± 0.00	0.50	1.21 ± 0.22	1.14 ± 0.60	0.85 ± 0.25			1.34 ± 0.21	1.27 ± 0.24
Weekday			1.20	1.13 ± 0.13	0.92 ± 0.12	0.81 ± 0.17			0.93 ± 0.12	0.86 ± 0.11

<sup>a</sup>Includes "other" species.

Table F.12. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes during the low-use season by species, day type and bay system (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Bay system								
		Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
Atlantic croaker										
	1983-84									
	Weekend									
	Weekday									
	1984-85									
	Weekend									
	Weekday								0.50	0.50
	1985-86									
	Weekend									
	Weekday									
Black drum										
	1983-84									
	Weekend									
	Weekday									
	1984-85									
	Weekend									
	Weekday									
	1985-86									
	Weekend									
	Weekday									
Gafftopsail catfish										
	1983-84									
	Weekend									
	Weekday									
	1984-85									
	Weekend									
	Weekday									
	1985-86									
	Weekend									
	Weekday									

2.30  $\pm$  0.02    2.30  $\pm$  0.02  
 1.62  $\pm$  0.38    1.62  $\pm$  0.38

1.77

1.77



Table F.12. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1983-84							0.50	0.50
Weekend								
Weekday								
1984-85								
Weekend								
Weekday								
1985-86								
Weekend							1.09	1.09
Weekday				0.50		0.74	0.47	0.60 ± 0.60
Spotted seatrout								
1983-84								
Weekend							1.07 ± 0.07	1.07 ± 0.07
Weekday							0.72 ± 0.07	0.72 ± 0.07
1984-85								
Weekend							0.68 ± 0.03	0.68 ± 0.03
Weekday							0.78 ± 0.13	0.78 ± 0.13
1985-86								
Weekend			0.56	0.76 ± 0.08			0.71 ± 0.11	0.72 ± 0.10
Weekday				0.65 ± 0.02	0.70 ± 0.02	0.58	0.96 ± 0.22	0.77 ± 0.13
All species combined <sup>a</sup>								
1983-84								
Weekend							1.18 ± 0.13	1.18 ± 0.13
Weekday					1.70 ± 1.70		0.83 ± 0.03	0.86 ± 0.09
1984-85								
Weekend							0.67 ± 0.07	0.67 ± 0.07
Weekday							1.00 ± 0.33	1.23 ± 0.65
1985-86								
Weekend			0.90	0.86 ± 0.08			1.16 ± 0.05	1.05 ± 0.06
Weekday				0.54 ± 0.05	0.94 ± 0.34	0.60	1.47 ± 0.19	0.98 ± 0.22

<sup>a</sup>Includes "other" species.

Table F.13. Annual mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes by species and bay system (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Bay system										
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre		Coastwide	
<b>Atlantic croaker</b>											
1983-84	265			326 $\pm$ 1	281 $\pm$ 7				310 $\pm$ 8	298 $\pm$ 20	
1984-85	226				287				315 $\pm$ 20	289 $\pm$ 102	
1985-86				250						250	
<b>Black drum</b>											
1983-84	442			419	375				516 $\pm$ 23	445 $\pm$ 137	
1984-85	565	425	429	430	503				511 $\pm$ 1	499 $\pm$ 139	
1985-86		354		370		408			602 $\pm$ 7	404 $\pm$ 299	
<b>Gafftopsail catfish</b>											
1983-84			424		566 $\pm$ 1				710	551 $\pm$ 50	
1984-85				430	420					429 $\pm$ 376	
1985-86					395					395	
<b>Red drum</b>											
1983-84	430		520 $\pm$ 25	486 $\pm$ 18	476 $\pm$ 70				501 $\pm$ 13	495 $\pm$ 20	
1984-85	647 $\pm$ 19	502 $\pm$ 16	581 $\pm$ 26	583 $\pm$ 51	609 $\pm$ 27				570 $\pm$ 8	584 $\pm$ 19	
1985-86	526	536 $\pm$ 64	476 $\pm$ 20	543 $\pm$ 11	561 $\pm$ 26	552 $\pm$ 17			576 $\pm$ 16	557 $\pm$ 18	
<b>Sand seatrout</b>											
1983-84	352	293	290	278 $\pm$ 6	315 $\pm$ 4				281	301 $\pm$ 107	
1984-85	281	336			309 $\pm$ 9					308 $\pm$ 22	
1985-86	296					361			290 $\pm$ 15	294 $\pm$ 202	
<b>Sheepshead</b>											
1983-84				337	376 $\pm$ 20				325 $\pm$ 14	359 $\pm$ 52	
1984-85									374 $\pm$ 26	374 $\pm$ 26	
1985-86				385					341	365	
<b>Southern flounder</b>											
1983-84	336 $\pm$ 40			300 $\pm$ 35	361 $\pm$ 13				390 $\pm$ 8	375 $\pm$ 8	
1984-85				374 $\pm$ 16	506				363 $\pm$ 16	404 $\pm$ 97	
1985-86	288 $\pm$ 4	352	364	362 $\pm$ 7	265	363 $\pm$ 15			346 $\pm$ 18	348 $\pm$ 28	

Table F.13. (Cont'd.)

Species Year	Bay system														
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide
Spotted seatrout															
1983-84	474 ± 24	364 ± 4	362 ± 11	359 ± 8	410 ± 34	421 ± 11	402 ± 11								
1984-85	450 ± 4	499		412 ± 14	451 ± 26	401 ± 4	408 ± 3								
1985-86	392 ± 6	424	373 ± 5	413 ± 7	412 ± 6	432 ± 8	420 ± 47								
All species combined <sup>a</sup>															
1983-84	454 ± 19	435 ± 44	378 ± 19	363 ± 13	367 ± 27	420 ± 9	394 ± 14								
1984-85	478 ± 31	510 ± 30	368	532 ± 55	497 ± 31	434 ± 9	450 ± 12								
1985-86	353 ± 15	415	455 ± 16	461 ± 12	449 ± 9	468 ± 12	448 ± 11								

<sup>a</sup>Includes "other" species

Table F.14. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year Day type	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower
						Laguna	Madre	Coastwide
Atlantic croaker								
1983								
Weekend				326	281 $\pm$ 7			298 $\pm$ 92
Weekday	265			312			310 $\pm$ 8	293 $\pm$ 29
1984					287			287
Weekend								
Weekday	226						295	255 $\pm$ 180
1985								
Weekend								
Weekday				250				250
Black drum								
1983								
Weekend				419			245	292 $\pm$ 169
Weekday	442				375		515 $\pm$ 34	385 $\pm$ 331
1984								
Weekend		425	429		503		512	483 $\pm$ 452
Weekday	565			430			511 $\pm$ 0	501 $\pm$ 57
1985								
Weekend				370			602 $\pm$ 7	522 $\pm$ 132
Weekday		354				408		356
Gafftopsail catfish								
1983								
Weekend		424						424
Weekday					565		710	568
1984								
Weekend								
Weekday				430	420			429 $\pm$ 376
1985								
Weekend								
Weekday					395			395



Table F.14. (Cont'd.)

Species Year	Bay system										Coastwide	
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower			
							Laguna Madre	Laguna Madre				
Red drum												
1983												
Weekend		469		532 ± 16	562 ± 19					446 ± 12		479 ± 92
Weekday	430	512 ± 14	420	482 ± 22		476 ± 70				509 ± 15		496 ± 29
1984												
Weekend			605		509					561 ± 8		553 ± 194
Weekday	647 ± 19	517 ± 38			663	639				578 ± 8		600 ± 101
1985												
Weekend					550 ± 24	540		577 ± 30		581 ± 29		565 ± 64
Weekday	526	536 ± 64	531	539 ± 10	572 ± 43		536 ± 18			559 ± 15		548 ± 25
Sand seatrout												
1983												
Weekend		293		290	344	320 ± 4						300 ± 189
Weekday	352				275 ± 5	309			281			299 ± 223
1984												
Weekend						304						304
Weekday	281	336				335						302 ± 244
1985												
Weekend										262 ± 0		262 ± 0
Weekday	296									306 ± 20		298 ± 226
Sheepshead												
1983												
Weekend					337					392		351 ± 278
Weekday						376 ± 20				320 ± 11		366 ± 16
1984												
Weekend										458		458
Weekday										356 ± 14		356 ± 14
1985												
Weekend					385							385
Weekday										341		341

Table F.14. (Cont'd.)

Species Year	Bay system										Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Southern flounder												
1983												
Weekend												480 ± 15
Weekday	336 ± 40			300 ± 35	361 ± 13						390 ± 15	369 ± 10
1984												
Weekend				398	506							470 ± 273
Weekday				363							364 ± 18	363 ± 105
1985												
Weekend			364									
Weekday	288 ± 4	352		376 ± 21		345					363 ± 14	363 ± 128
				362 ± 9	265	348 ± 10					338 ± 23	336 ± 16
Spotted seatrout												
1983												
Weekend	435 ± 11	362 ± 3	343	359 ± 20							425 ± 15	396 ± 15
Weekday	504 ± 24	376 ± 4	374 ± 4	359 ± 6	410 ± 34						415 ± 16	400 ± 14
1984												
Weekend				419	480 ± 23						392 ± 7	403 ± 8
Weekday	450 ± 4	499		406 ± 24	418 ± 14						397 ± 6	410 ± 4
1985												
Weekend												
Weekday	392 ± 6	424	370	411 ± 18	381	381 ± 4					422 ± 12	416 ± 34
				415 ± 11	413 ± 7	415 ± 8					432 ± 9	417 ± 93
All species combined <sup>a</sup>												
1983												
Weekend	435 ± 11	438 ± 58	382 ± 50	361 ± 21	286 ± 6						422 ± 14	381 ± 18
Weekday	468 ± 31	420 ± 23	375 ± 6	364 ± 18	401 ± 22						412 ± 12	398 ± 14
1984												
Weekend				478	506 ± 41						430 ± 22	457 ± 59
Weekday	478 ± 31	542	368	453 ± 84	484 ± 66						437 ± 12	450 ± 15
1985												
Weekend												
Weekday	353 ± 15	415	364	471 ± 2	466 ± 79	413 ± 36					476 ± 20	471 ± 28
				466 ± 18	448 ± 7	433 ± 19					441 ± 15	428 ± 16

<sup>a</sup>Includes "other" species

Table F.15. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in Texas bays and passes during the low-use season by species, day type and bay system (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Bay system							Coastwide
		Galveston	Matagorda	San Antonio	Aransas	Upper		Lower	
						Corpus Christi	Laguna Madre		
<b>Atlantic croaker</b>									
	1983-84								
	Weekend								
	Weekday								
	1984-85								
	Weekend							335	335
	Weekday								
	1985-86								
	Weekend								
	Weekday								
<b>Black drum</b>									
	1983-84								
	Weekend							543 $\pm$ 1	543 $\pm$ 1
	Weekday							482 $\pm$ 43	482 $\pm$ 43
	1984-85								
	Weekend								
	Weekday								
	1985-86								
	Weekend								
	Weekday								
<b>Gafftopsail catfish</b>									
	1983-84								
	Weekend								
	Weekday								
	1984-85								
	Weekend								
	Weekday								
	1985-86								
	Weekend								
	Weekday								

569

569



Table F.15. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1983-84							353	353
Weekend								
Weekday								
1984-85								
Weekend								
Weekday								
1985-86							352	452
Weekend							345	369
Weekday				350		394		
Spotted seatrout								
1983-84								
Weekend							465 ± 10	465 ± 10
Weekday							414 ± 14	414 ± 14
1984-85								
Weekend							411 ± 4	411 ± 4
Weekday							428 ± 20	428 ± 20
1985-86								
Weekend				418 ± 12			419 ± 20	419 ± 17
Weekday			392	408 ± 5	418 ± 3	393	455 ± 32	427 ± 40
All species combined <sup>a</sup>								
1983-84								
Weekend							474 ± 6	474 ± 6
Weekday					569		428 ± 6	432 ± 14
1984-85								
Weekend							411 ± 8	411 ± 8
Weekday				636			456 ± 36	480 ± 4
1985-86								
Weekend			454	435 ± 12			473 ± 0	459 ± 5
Weekday				395 ± 15	449 ± 41	392	512 ± 24	451 ± 59

<sup>a</sup>Includes "other" species



Table F.16. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							
					Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
1985-86	High use	Weekend	Atlantic cutlass fish	<u>Trichiurus lepturus</u>							30.00	11.11
			Black drum	<u>Pogonias cromis</u>						33.33		3.70
			Crevalle jack	<u>Caranx hippos</u>						33.33		3.70
			Florida pompano	<u>Trachinotus carolinus</u>							10.00	3.70
			Gray triggerfish	<u>Balistes capriscus</u>			78.57					40.74
			Ladyfish	<u>Elops saurus</u>							20.00	7.41
			Sea basses sp.	Family Serranidae								3.70
			Snappers sp.	Family Lutjanidae			7.14					
			Gray snapper	<u>Lutjanus griseus</u>							10.00	3.70
			Southern kingfish	<u>Menticirrhus americanus</u>							30.00	11.11
			Stingrays sp.	Family Dasyatidae						33.33		
			Atlantic stingray	<u>Dasyatis sabina</u>								3.70
			Toadfishes sp.	Family Batrachoididae			14.29					7.41
	Weekday		Atlantic cutlass fish	<u>Trichiurus lepturus</u>						50.00		12.50
			Crevalle jack	<u>Caranx hippos</u>						25.00		6.25
			Florida pompano	<u>Trachinotus carolinus</u>						25.00		6.25
			Greater barracuda	<u>Sphyræna barracuda</u>							33.33	6.25
			Ladyfish	<u>Elops saurus</u>					88.89		66.67	62.50
			Sharks sp.									
			Bonnethead	<u>Sphyrna tiburo</u>					11.11			6.25

Table F.17. Percent composition of the annual residential origin of party-boat fishermen-trips in Texas bays and passes by bay system (1983-86).

Bay system Year	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1983-84	85	0	15	0
1984-85	100	0	0	0
1985-86	100	0	0	0
Matagorda				
1983-84	31	48	21	0
1984-85	11	44	0	44
1985-86	63	11	26	0
San Antonio				
1983-84	28	44	28	0
1984-85	0	70	30	0
1985-86	33	24	43	0
Aransas				
1983-84	10	28	60	3
1984-85	19	19	53	9
1985-86	19	11	66	3
Corpus Christi				
1983-84	14	9	77	0
1984-85	18	0	82	0
1985-86	31	22	47	0
Upper Laguna Madre				
1983-84	33	0	67	0
1984-85	50	0	0	50
1985-86	41	8	46	4
Lower Laguna Madre				
1983-84	22	22	46	10
1984-85	32	21	37	9
1985-86	31	24	40	6
Coastwide				
1983-84	23	23	47	7
1984-85	32	19	40	9
1985-86	32	19	45	4



Table F.18. Percent composition of the residential origin of party-boat fishermen-trips in Texas bays and passes during the high-use season by bay system and day type (1983-1985). Blank = no fishermen interviewed.

Bay system Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
<b>Galveston</b>						
1983	100	0	0	80	0	20
1984				100	0	0
1985	0	0	0	100	0	0
<b>Matagorda</b>						
1983	21	64	14	50	14	36
1984	0	100	0	20	0	0
1985	0	0	0	83	0	17
<b>San Antonio</b>						
1983	36	18	45	14	86	0
1984	0	0	100	0	100	0
1985	12	38	50	50	20	30
<b>Aransas</b>						
1983	1	24	74	14	30	51
1984	23	0	77	0	60	10
1985	17	4	78	21	17	61
<b>Corpus Christi</b>						
1983	0	20	80	10	5	85
1984	20	0	80	11	0	89
1985	18	45	36	23	17	60
<b>Upper Laguna Madre</b>						
1983	50	0	50			
1984				50	0	50
1985	55	9	36	100	0	0
<b>Lower Laguna Madre</b>						
1983	18	33	47	24	21	47
1984	42	18	39	28	25	34
1985	27	24	45	36	27	32

Table F.18. (Cont 'd.)

Bay system Year	Weekend			Weekday		
	Adjacent coastal countries	Non-adjacent coastal countries	Other states/countries	Adjacent coastal countries	Non-adjacent coastal countries	Other states/countries
Coastwide						
1983	19	33	1	25	21	6
1984	33	14	1	33	25	13
1985	25	21	3	39	19	2

Table F.19. Percent composition of the residential origin of party-boat fishermen-trips in Texas bays and passes during the low-use season by bay system and day type (1983-1986). Blank = no fishermen interviewed.

Bay system Year	Weekend						Weekday					
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galveston												
1983-84												
1984-85												
1985-86	0	0	0	0	0	0	0	0	0	0	0	0
Matagorda												
1983-84												
1984-85												
1985-86	25	0	75	0	0	0	33	67	0	0	0	0
San Antonio												
1983-84												
1984-85												
1985-86	0	0	0	0	0	0	33	0	0	67	0	0
Aransas												
1983-84												
1984-85	33	0	67	0	0	0	33	0	0	67	0	0
1985-86	14	7	79	0	0	0	25	12	25	25	38	0
Corpus Christi												
1983-84												
1984-85												
1985-86	0	0	0	0	0	0	60	0	0	40	0	0
Upper Laguna Madre												
1983-84												
1984-85												
1985-86	0	0	0	0	0	0	11	11	0	70	8	0
Lower Laguna Madre												
1983-84	41	12	47	0	0	0	14	0	0	35	51	0
1984-85	29	17	45	10	0	0	34	14	10	41	10	0
1985-86	42	0	58	0	0	0	28	16	0	24	32	0

Table F.19. (Cont 'd.)

Bay system Year	Weekend			Weekday		
	Adjacent coastal countries	Non-adjacent coastal countries	Non- coastal countries	Adjacent coastal countries	Non-adjacent coastal countries	Other states/ countries
Coastwide						
1983-84	41	12	47	18	0	43
1984-85	29	16	47	34	11	9
1985-86	27	3	70	29	16	16

Table F.20. Mean fishing-party size (No. of fishermen) and mean trip length (h) for party-boat fishermen in Texas bays and passes by bay system, season and day type (1983-1986). Blank = no fishermen interviewed.

Bay system Year	Mean fishing-party size			Mean trip length		
	High-use season		Low-use season	High-use season		Low-use season
	Weekend	Weekday	Weekend	Weekend	Weekday	Annual
Galveston						
1983-84	3.5	3.3		6.8	7.2	7.1
1984-85		3.8			7.4	7.4
1985-86		4.0			9.0	9.0
Matagorda						
1983-84	4.7	3.5		5.8	4.1	5.2
1984-85	4.0	2.5		6.5	6.0	6.2
1985-86		4.0	3.0		5.7	5.2
						4.0
San Antonio						
1983-84	3.7	3.5		9.2	6.5	8.1
1984-85	3.0	3.5		4.5	4.5	4.5
1985-86	4.0	3.3	3.0	5.2	5.2	5.9
						9.5
Aransas						
1983-84	3.5	4.2		5.0	4.9	4.9
1984-85	3.2	3.3	3.0	5.0	6.3	5.4
1985-86	3.3	3.1	2.3	6.2	6.3	6.7
						4.5
						8.3
Corpus Christi						
1983-84	2.5	3.3	5.0	5.9	7.8	6.7
1984-85	3.9	3.0		5.9	6.8	6.2
1985-86	3.7	3.1	2.3	5.5	6.5	6.5
Upper Laguna Madre						
1983-84	4.0		2.0	2.0		2.0
1984-85		2.0			8.0	8.0
1985-86	2.8	2.8	5.9	7.0	8.9	9.4
						12.0
Lower Laguna Madre						
1983-84	3.4	3.2	3.4	7.4	6.2	6.2
1984-85	3.5	3.8	3.8	5.4	5.6	5.5
1985-86	3.8	3.6	4.0	5.5	5.5	5.6
						7.3
						6.0

Table F.20. (Cont'd.)

Bay system Year	Mean fishing-party size			Mean trip length								
	High-use season		Low-use season	High-use season		Low-use season						
	Weekend	Weekday	Weekend	Weekend	Weekday	Weekend						
Coastwide												
1983-84	3.5	3.4	3.4	2.9	3.4	3.4	6.7	6.1	5.6	3.8	6.1	6.1
1984-85	3.5	3.6	3.8	3.2	3.6	3.6	5.5	5.9	5.0	5.3	5.9	5.7
1985-86	3.6	3.4	3.0	2.7	3.4	3.4	5.8	6.2	7.7	7.3	6.2	6.3

Appendix G: Estimates for headboat fishing in Texas bays and passes.

Table G.1. Number of days surveyed and number of headboat fishermen interviewed ( ) in Texas bays and passes by season, day type and area (1983-1986). WE = weekend days. WD = weekend days. WD = weekdays.

Year Season Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
1983-84				
High use				
WE	8 (315)	7 (321)	6 (152)	21 (788)
WD	12 (413)	14 (217)	15 (185)	41 (815)
Low use				
WE	7 (99)	7 (174)	7 (88)	21 (361)
WD	14 (206)	14 (136)	14 (153)	42 (495)
Annual	41 (1033)	42 (848)	42 (578)	125 (2459)
1984-85				
High use				
WE	7 (332)	7 (206)	7 (116)	21 (654)
WD	14 (492)	14 (211)	14 (250)	42 (953)
Low use				
WE	7 (329)	7 (172)	7 (67)	21 (568)
WD	14 (258)	14 (161)	14 (166)	42 (585)
Annual	42 (1411)	42 (750)	42 (599)	126 (2760)
1985-86				
High use				
WE	7 (354)	7 (123)	7 (180)	21 (657)
WD	14 (508)	14 (297)	14 (341)	42 (1146)
Low use				
WE	7 (227)	7 (86)	7 (84)	21 (397)
WD	14 (421)	14 (190)	14 (160)	42 (771)
Annual	42 (1510)	42 (696)	42 (765)	126 (2971)



Table G.2. Pressure estimates (man-h x 1000)  $\pm$  1 SE for headboat fishermen in Texas bays and passes by season, day type and area (1983-1986).

Area Year	High-use season		Low-use season		Annual <sup>a</sup>
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1983-84	31.6 $\pm$ 15.0	31.7 $\pm$ 11.0	5.7 $\pm$ 2.1	4.4 $\pm$ 2.5	73.4 $\pm$ 18.9
1984-85	35.2 $\pm$ 19.7	16.2 $\pm$ 3.7	6.6 $\pm$ 2.2	3.4 $\pm$ 1.2	61.3 $\pm$ 20.2
1985-86	73.8 $\pm$ 37.9	21.3 $\pm$ 4.4	7.2 $\pm$ 2.9	4.9 $\pm$ 1.6	107.1 $\pm$ 38.3
Corpus Christi					
1983-84	40.9 $\pm$ 11.9	27.1 $\pm$ 9.3	9.2 $\pm$ 1.4	4.0 $\pm$ 1.3	81.2 $\pm$ 15.2
1984-85	15.5 $\pm$ 3.6	17.3 $\pm$ 5.6	8.0 $\pm$ 3.0	2.9 $\pm$ 0.9	43.7 $\pm$ 7.3
1985-86	22.4 $\pm$ 5.4	33.5 $\pm$ 9.8	2.7 $\pm$ 1.2	6.8 $\pm$ 1.9	65.5 $\pm$ 11.5
Lower Laguna Madre					
1983-84	10.4 $\pm$ 3.3	18.0 $\pm$ 4.3	1.3 $\pm$ 0.6	4.6 $\pm$ 1.3	34.3 $\pm$ 5.6
1984-85	4.6 $\pm$ 1.6	14.9 $\pm$ 3.2	3.1 $\pm$ 1.2	6.5 $\pm$ 2.1	29.0 $\pm$ 4.3
1985-86	10.6 $\pm$ 4.2	18.0 $\pm$ 4.2	2.3 $\pm$ 1.0	6.1 $\pm$ 1.7	36.9 $\pm$ 6.2
Coastwide <sup>a</sup>					
1983-84	82.9 $\pm$ 19.4	76.8 $\pm$ 15.0	16.2 $\pm$ 2.6	13.0 $\pm$ 3.1	188.9 $\pm$ 24.9
1984-85	55.2 $\pm$ 20.1	48.3 $\pm$ 7.4	17.6 $\pm$ 3.9	12.8 $\pm$ 2.6	134.0 $\pm$ 21.9
1985-86	106.8 $\pm$ 38.6	72.8 $\pm$ 11.5	12.2 $\pm$ 3.3	12.8 $\pm$ 3.0	209.6 $\pm$ 40.5

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.3. Annual estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes by species and area (1983-1986).

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker				
1983-84	22.3 $\pm$ 10.4	0.6 $\pm$ 0.3	0.9 $\pm$ 0.4	23.8 $\pm$ 10.4
1984-85	12.2 $\pm$ 4.4	<.1 $\pm$ <.1	0.2 $\pm$ 0.1	12.4 $\pm$ 4.4
1985-86	20.7 $\pm$ 5.7	1.1 $\pm$ 0.5	0.7 $\pm$ 0.4	22.5 $\pm$ 5.7
Black drum				
1983-84	2.6 $\pm$ 0.8	0.3 $\pm$ 0.2	<.1 $\pm$ <.1	2.9 $\pm$ 0.8
1984-85	1.3 $\pm$ 0.5	0.1 $\pm$ <.1	0.0	1.3 $\pm$ 0.5
1985-86	1.2 $\pm$ 0.4	0.2 $\pm$ 0.1	0.0	1.4 $\pm$ 0.4
Gafftopsail catfish				
1983-84	0.7 $\pm$ 0.5	0.9 $\pm$ 0.3	0.0	1.6 $\pm$ 0.6
1984-85	0.2 $\pm$ 0.1	0.9 $\pm$ 0.4	0.0	1.1 $\pm$ 0.4
1985-86	1.5 $\pm$ 0.8	0.4 $\pm$ 0.1	0.0	1.9 $\pm$ 0.8
Red drum				
1983-84	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
1984-85	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
1985-86	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
Sand seatrout				
1983-84	26.7 $\pm$ 10.6	40.4 $\pm$ 8.5	8.8 $\pm$ 2.4	75.9 $\pm$ 13.8
1984-85	23.7 $\pm$ 10.5	6.0 $\pm$ 2.0	19.1 $\pm$ 4.6	48.8 $\pm$ 11.6
1985-86	118.5 $\pm$ 50.6	37.6 $\pm$ 9.8	21.7 $\pm$ 5.1	177.8 $\pm$ 51.8
Sheepshead				
1983-84	0.1 $\pm$ <.1	0.0	0.3 $\pm$ 0.1	0.3 $\pm$ 0.1
1984-85	<.1 $\pm$ <.1	0.0	1.0 $\pm$ 0.9	1.1 $\pm$ 0.9
1985-86	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
Southern flounder				
1983-84	0.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	0.1 $\pm$ <.1
1984-85	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.1 $\pm$ <.1
1985-86	0.2 $\pm$ <.1	0.6 $\pm$ 0.4	<.1 $\pm$ <.1	0.9 $\pm$ 0.4
Spotted seatrout				
1983-84	0.0	4.5 $\pm$ 3.6	0.2 $\pm$ 0.1	4.7 $\pm$ 3.6
1984-85	0.0	0.2 $\pm$ 0.2	0.3 $\pm$ 0.1	0.4 $\pm$ 0.2
1985-86	<.1 $\pm$ <.1	1.5 $\pm$ 0.9	0.6 $\pm$ 0.5	2.2 $\pm$ 1.1
Other species				
1983-84	12.1	3.4	6.5	22.0
1984-85	3.1	1.5	4.7	9.3
1985-86	3.8	3.6	7.0	18.9

Table G.3. (Cont'd.)

Species Year	Area			Coastwide <sup>a</sup>
	Galveston	Corpus Christi	Lower Laguna Madre	
All species combined <sup>a</sup>				
1983-84	64.6 ± 17.9	50.2 ± 8.9	16.6 ± 3.8	131.3 ± 20.4
1984-85	40.6 ± 13.6	8.7 ± 2.1	25.3 ± 5.4	74.6 ± 14.7
1985-86	152.5 ± 57.5	49.4 ± 11.5	30.1 ± 6.3	232.0 ± 59.0

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.4. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the high-use season by species, day type and area (1983-1985).

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker						
1983						
	Weekend		16.8 $\pm$ 10.3	0.2 $\pm$ 0.1	0.2 $\pm$ 0.1	17.2 $\pm$ 10.3
	Weekday		4.5 $\pm$ 1.5	0.4 $\pm$ 0.2	0.7 $\pm$ 0.4	5.6 $\pm$ 1.5
1984						
	Weekend		6.6 $\pm$ 4.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	6.7 $\pm$ 4.0
	Weekday		5.2 $\pm$ 1.7	0.0	0.1 $\pm$ 0.1	5.3 $\pm$ 1.7
1985						
	Weekend		7.3 $\pm$ 4.4	0.0	0.4 $\pm$ 0.3	7.7 $\pm$ 4.4
	Weekday		11.7 $\pm$ 3.2	1.1 $\pm$ 0.5	0.3 $\pm$ 0.2	13.1 $\pm$ 3.2
Black drum						
1983						
	Weekend		1.4 $\pm$ 0.6	0.1 $\pm$ 0.1	0.0	1.5 $\pm$ 0.6
	Weekday		1.0 $\pm$ 0.5	0.0	<.1 $\pm$ <.1	1.0 $\pm$ 0.5
1984						
	Weekend		0.3 $\pm$ 0.3	0.0	0.0	0.3 $\pm$ 0.3
	Weekday		0.4 $\pm$ 0.2	0.0	0.0	0.4 $\pm$ 0.2
1985						
	Weekend		0.3 $\pm$ 0.3	0.0	0.0	0.3 $\pm$ 0.3
	Weekday		0.4 $\pm$ 0.2	<.1 $\pm$ <.1	0.0	0.4 $\pm$ 0.2
Gafftopsail catfish						
1983						
	Weekend		0.0	0.2 $\pm$ 0.1	0.0	0.2 $\pm$ 0.1
	Weekday		0.5 $\pm$ 0.5	0.6 $\pm$ 0.3	0.0	1.1 $\pm$ 0.6
1984						
	Weekend		<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1
	Weekday		<.1 $\pm$ <.1	0.4 $\pm$ 0.3	0.0	0.5 $\pm$ 0.3
1985						
	Weekend		1.1 $\pm$ 0.8	<.1 $\pm$ <.1	0.0	1.1 $\pm$ 0.8
	Weekday		0.3 $\pm$ 0.2	0.3 $\pm$ 0.1	0.0	0.7 $\pm$ 0.2
Red drum						
1983						
	Weekend		<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
	Weekday		0.0	0.0	0.0	0.0
1984						
	Weekend		0.0	0.0	0.0	0.0
	Weekday		0.0	0.0	0.0	0.0
1985						
	Weekend		<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
	Weekday		0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1

Table G.4. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Year				
Day type				
Sand seatrout				
1983				
Weekend	6.0 ± 2.5	25.6 ± 7.3	4.1 ± 1.7	35.7 ± 7.9
Weekday	19.6 ± 10.2	12.8 ± 4.0	3.9 ± 1.7	36.3 ± 11.1
1984				
Weekend	10.2 ± 7.4	2.8 ± 1.6	3.6 ± 2.1	16.6 ± 7.8
Weekday	13.3 ± 7.4	2.7 ± 1.1	12.8 ± 3.7	28.8 ± 8.4
1985				
Weekend	89.9 ± 49.9	7.3 ± 4.2	5.0 ± 2.7	102.2 ± 50.2
Weekday	28.1 ± 8.4	28.3 ± 8.7	13.0 ± 4.1	69.5 ± 12.8
Sheepshead				
1983				
Weekend	<.1 ± <.1	0.0	0.1 ± 0.1	0.1 ± 0.1
Weekday	<.1 ± <.1	0.0	0.1 ± 0.1	0.1 ± 0.1
1984				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0
1985				
Weekend	0.0	<.1 ± <.1	0.0	<.1 ± <.1
Weekday	0.0	0.0	0.0	0.0
Southern flounder				
1983				
Weekend	0.1 ± <.1	0.0	0.0	0.1 ± <.1
Weekday	0.0	<.1 ± <.1	0.0	<0.1 ± <.1
1984				
Weekend	<.1 ± <.1	0.0	0.0	<.1 ± <.1
Weekday	0.0	<.1 ± <.1	0.0	<.1 ± <.1
1985				
Weekend	<.1 ± <.1	0.6 ± 0.4	0.0	0.6 ± 0.4
Weekday	0.1 ± 0.1	<.1 ± <.1	<.1 ± <.1	0.2 ± <.1
Spotted seatrout				
1983				
Weekend	0.0	0.1 ± 0.1	<.1 ± <.1	0.1 ± 0.1
Weekday	0.0	4.4 ± 3.6	0.1 ± 0.1	4.6 ± 3.6
1984				
Weekend	0.0	0.2 ± 0.2	<.1 ± <.1	0.2 ± 0.2
Weekday	0.0	0.0	0.2 ± 0.1	0.2 ± 0.1
1985				
Weekend	0.0	0.3 ± 0.2	0.6 ± 0.5	0.9 ± 0.6
Weekday	<.1 ± <.1	0.8 ± 0.8	<.1 ± <.1	0.9 ± 0.8

Table G.4. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Other species				
1983				
Weekend	1.9	1.7	1.8	5.3
Weekday	10.1	1.4	3.9	15.4
1984				
Weekend	2.3	0.4	0.8	3.6
Weekday	0.7	0.7	1.3	2.7
1985				
Weekend	4.2	1.7	1.9	7.8
Weekday	3.1	1.6	2.1	6.8
All species combined <sup>a</sup>				
1983				
Weekend	26.1 ± 11.7	27.8 ± 7.6	6.2 ± 2.5	60.1 ± 14.2
Weekday	35.7 ± 13.5	19.6 ± 4.4	8.8 ± 2.8	64.1 ± 14.4
1984				
Weekend	19.6 ± 11.1	3.6 ± 1.7	4.5 ± 2.4	27.7 ± 11.5
Weekday	19.6 ± 7.8	3.8 ± 1.0	14.5 ± 3.9	37.9 ± 8.8
1985				
Weekend	103.0 ± 56.5	10.2 ± 4.1	7.9 ± 3.3	121.1 ± 56.7
Weekday	45.7 ± 10.8	36.4 ± 10.6	15.6 ± 4.8	97.7 ± 15.9

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.5. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the low-use season by species, day type and area (1983-1986).

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Year				
Day type				
Atlantic croaker				
1983-84				
Weekend	1.0 $\pm$ 0.6	0.0	0.0	1.0 $\pm$ 0.6
Weekday	0.1 $\pm$ <.1	0.0	0.1 $\pm$ 0.1	0.1 $\pm$ 0.1
1984-85				
Weekend	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
Weekday	0.3 $\pm$ 0.3	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.4 $\pm$ 0.3
1985-86				
Weekend	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
Weekday	1.6 $\pm$ 1.6	<.1 $\pm$ <.1	0.0	1.7 $\pm$ 1.6
Black drum				
1983-84				
Weekend	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1
Weekday	0.2 $\pm$ 0.1	0.1 $\pm$ 0.1	0.0	0.3 $\pm$ 0.1
1984-85				
Weekend	0.4 $\pm$ 0.3	<.1 $\pm$ <.1	0.0	0.4 $\pm$ 0.3
Weekday	0.1 $\pm$ 0.1	0.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1
1985-86				
Weekend	0.3 $\pm$ 0.2	<.1 $\pm$ <.1	0.0	0.3 $\pm$ 0.2
Weekday	0.2 $\pm$ 0.1	0.2 $\pm$ 0.1	0.0	0.4 $\pm$ 0.2
Gafftopsail catfish				
1983-84				
Weekend	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1
Weekday	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1
1984-85				
Weekend	<.1 $\pm$ <.1	0.3 $\pm$ 0.3	0.0	0.3 $\pm$ 0.3
Weekday	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.1 $\pm$ 0.1
1985-86				
Weekend	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
Weekday	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
Red drum				
1983-84				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0
1984-85				
Weekend	0.0	0.0	0.0	0.0
Weekday	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
1985-86				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0

Table G.5. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Sand seatrout				
1983-84				
Weekend	1.1 ± 1.1	1.7 ± 1.7	<.1 ± <.1	2.8 ± 2.0
Weekday	0.0	0.3 ± 0.3	0.7 ± 0.4	1.1 ± 0.5
1984-85				
Weekend	0.1 ± 0.1	0.5 ± 0.5	0.4 ± 0.3	0.9 ± 0.6
Weekday	0.1 ± 0.1	<.1 ± <.1	2.4 ± 1.7	2.4 ± 1.7
1985-86				
Weekend	<.1 ± <.1	<.1 ± <.1	1.1 ± 0.4	1.2 ± 0.4
Weekday	0.6 ± 0.3	1.9 ± 1.5	2.5 ± 1.4	5.0 ± 2.1
Sheepshead				
1983-84				
Weekend	0.1 ± <.1	0.0	0.0	<.1 ± <.1
Weekday	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1
1984-85				
Weekend	<.1 ± <.1	0.0	0.9 ± 0.9	0.9 ± 0.9
Weekday	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1
1985-86				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0
Southern flounder				
1983-84				
Weekend	0.0	0.0	0.0	0.0
Weekday	<.1 ± <.1	0.0	0.0	<.1 ± <.1
1984-85				
Weekend	0.0	<.1 ± <.1	0.0	<.1 ± <.1
Weekday	0.0	0.0	<.1 ± <.1	<.1 ± <.1
1985-86				
Weekend	0.0	<.1 ± <.1	0.0	<.1 ± <.1
Weekday	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
Spotted seatrout				
1983-84				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0
1984-85				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	<.1 ± <.1	<.1 ± <.1
1985-86				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.4 ± 0.3	<.1 ± <.1	0.4 ± 0.3



Table G.5. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Other species				
1983-84				
Weekend	<.1	0.2	0.2	0.4
Weekday	0.1	0.2	0.6	0.9
1984-85				
Weekend	<.1	0.4	0.6	1.0
Weekday	0.1	<.1	1.9	1.9
1985				
Weekend	<.1	<.1	1.1	1.2
Weekday	0.9	0.2	1.9	2.9
All species combined <sup>a</sup>				
1983-84				
Weekend	2.2 ± 1.4	2.0 ± 1.7	0.2 ± 0.1	4.4 ± 2.2
Weekday	0.5 ± 0.3	0.7 ± 0.6	1.4 ± 0.5	2.7 ± 0.8
1984-85				
Weekend	0.6 ± 0.3	1.2 ± 0.7	1.9 ± 1.2	3.6 ± 1.4
Weekday	0.7 ± 0.4	0.2 ± 0.1	4.4 ± 2.5	5.3 ± 2.5
1985				
Weekend	0.5 ± 0.3	0.2 ± 0.1	2.2 ± 0.9	2.8 ± 1.0
Weekday	3.4 ± 2.1	2.7 ± 1.5	4.5 ± 2.0	10.5 ± 3.2

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.6. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes by species and area (1983-1986).

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Atlantic croaker				
1983-84	0.30 $\pm$ 0.16	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.13 $\pm$ 0.06
1984-85	0.20 $\pm$ 0.09	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.09 $\pm$ 0.04
1985-86	0.19 $\pm$ 0.08	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.11 $\pm$ 0.03
Black drum				
1983-84	0.04 $\pm$ 0.01	<.01 $\pm$ <.01	<0.01 $\pm$ <.01	0.01 $\pm$ <.01
1984-85	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
1985-86	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
Gafftopsail catfish				
1983-84	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
1984-85	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
1985-86	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
Red drum				
1983-84	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1984-85	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1985-86	0.00	0.00	<.01 $\pm$ <.01	0.00
Sand seatrout				
1983-84	0.36 $\pm$ 0.17	0.50 $\pm$ 0.14	0.26 $\pm$ 0.08	0.40 $\pm$ 0.09
1984-85	0.39 $\pm$ 0.21	0.14 $\pm$ 0.05	0.66 $\pm$ 0.19	0.36 $\pm$ 0.10
1985-86	1.11 $\pm$ 0.59	0.57 $\pm$ 0.18	0.59 $\pm$ 0.17	0.85 $\pm$ 0.29
Sheepshead				
1983-84	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01	<.01 $\pm$ <.01
1984-85	0.00	0.00	0.04 $\pm$ 0.03	0.01 $\pm$ 0.01
1985-86	0.00	<.01 $\pm$ <.01	0.00	0.00
Southern flounder				
1983-84	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1984-85	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
Spotted seatrout				
1983-84	0.00	0.06 $\pm$ 0.04	<.01 $\pm$ <.01	0.02 $\pm$ 0.02
1984-85	0.00	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86	0.00	0.02 $\pm$ 0.01	0.02 $\pm$ 0.01	0.01 $\pm$ <.01
Other species				
1983-84	0.16	0.04	0.19	0.12
1984-85	0.05	0.03	0.16	0.07
1985-86	0.07	0.06	0.19	0.09

Table G.6. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>				
1983-84	0.88 ± 0.33	0.62 ± 0.16	0.48 ± 0.13	0.70 ± 0.14
1984-85	0.66 ± 0.30	0.20 ± 0.06	0.87 ± 0.22	0.56 ± 0.14
1985-86	1.42 ± 0.72	0.76 ± 0.22	0.82 ± 0.22	1.11 ± 0.35

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.7. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the high-use season by species, day type and area (1983-1985).

Species	Year	Area			Coastwide
		Galveston	Corpus Christi	Lower Laguna Madre	
Day type					
Atlantic croaker					
1983					
Weekend		0.53 $\pm$ 0.38	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.21 $\pm$ 0.13
Weekday		0.14 $\pm$ 0.06	0.02 $\pm$ 0.01	0.04 $\pm$ 0.02	0.07 $\pm$ 0.02
1984					
Weekend		0.19 $\pm$ 0.14	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.12 $\pm$ 0.08
Weekday		0.32 $\pm$ 0.13	0.00	0.01 $\pm$ 0.01	0.11 $\pm$ 0.04
1985					
Weekend		0.10 $\pm$ 0.07	0.00	0.04 $\pm$ 0.03	0.07 $\pm$ 0.05
Weekday		0.55 $\pm$ 0.18	0.03 $\pm$ 0.02	0.02 $\pm$ 0.01	0.18 $\pm$ 0.05
Black drum					
1983					
Weekend		0.04 $\pm$ 0.03	<0.01 $\pm$ <.01	0.00	0.02 $\pm$ 0.01
Weekday		0.03 $\pm$ 0.02	0.00	<.01 $\pm$ <.01	0.01 $\pm$ 0.01
1984					
Weekend		0.01 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ 0.01
Weekday		0.02 $\pm$ 0.01	0.00	0.00	0.01 $\pm$ <.01
1985					
Weekend		<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
Weekday		0.02 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
Gafftopsail catfish					
1983					
Weekend		0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
Weekday		0.02 $\pm$ 0.02	0.02 $\pm$ 0.01	0.00	0.01 $\pm$ 0.01
1984					
Weekend		<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
Weekday		<.01 $\pm$ <.01	0.02 $\pm$ 0.02	0.00	0.01 $\pm$ 0.01
1985					
Weekend		0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ 0.01
Weekday		0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
Red drum					
1983					
Weekend		<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend		0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1985					
Weekend		<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
Weekday		0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01

Table G.7. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Day type					
Sand seatrout					
1983					
	Weekend	0.19 ± 0.11	0.63 ± 0.25	0.40 ± 0.20	0.43 ± 0.14
	Weekday	0.62 ± 0.37	0.47 ± 0.21	0.22 ± 0.10	0.47 ± 0.17
1984					
	Weekend	0.29 ± 0.24	0.18 ± 0.11	0.78 ± 0.51	0.30 ± 0.17
	Weekday	0.82 ± 0.49	0.15 ± 0.08	0.86 ± 0.30	0.60 ± 0.19
1985					
	Weekend	1.22 ± 0.85	0.33 ± 0.20	0.48 ± 0.29	0.96 ± 0.56
	Weekday	1.32 ± 0.47	0.85 ± 0.35	0.73 ± 0.28	0.96 ± 0.23
Sheepshead					
1983					
	Weekend	<.01 ± <.01	0.00	0.01 ± 0.01	<.01 ± <.01
	Weekday	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01
1984					
	Weekend	0.00	0.00	0.00	0.00
	Weekday	0.00	0.00	0.00	0.00
1985					
	Weekend	0.00	<.01 ± <.01	0.00	<.01 ± <.01
	Weekday	0.00	0.00	0.00	0.00
Southern flounder					
1983					
	Weekend	<.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	0.00	<.01 ± <.01
1984					
	Weekend	<.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	0.00	<.01 ± <.01
1985					
	Weekend	<.01 ± <.01	0.03 ± 0.02	0.00	<.01 ± <.01
	Weekday	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
Spotted seatrout					
1983					
	Weekend	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
	Weekday	0.00	0.16 ± 0.14	0.01 ± <.01	0.06 ± 0.05
1984					
	Weekend	0.00	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01
	Weekday	0.00	0.00	0.01 ± 0.01	<.01 ± <.01
1985					
	Weekend	0.00	0.02 ± 0.01	0.05 ± 0.05	0.01 ± 0.01
	Weekday	<.01 ± <.01	0.02 ± 0.02	<.01 ± <.01	0.01 ± 0.01

Table G.7. (Cont'd.)

Species Year Day type	Area			Coastwide
	Galveston	Corpus Christi	Lower Laguna Madre	
Other species				
1983				
Weekend	0.06	0.04	0.17	0.06
Weekday	0.32	0.05	0.22	0.20
1984				
Weekend	0.07	0.03	0.18	0.06
Weekday	0.04	0.04	0.09	0.06
1985				
Weekend	0.06	0.08	0.18	0.07
Weekday	0.15	0.05	0.12	0.10
All species combined <sup>a</sup>				
1983				
Weekend	0.83 ± 0.51	0.68 ± 0.27	0.59 ± 0.29	0.72 ± 0.24
Weekday	1.13 ± 0.56	0.72 ± 0.29	0.49 ± 0.19	0.83 ± 0.25
1984				
Weekend	0.56 ± 0.41	0.23 ± 0.12	0.98 ± 0.61	0.50 ± 0.27
Weekday	1.22 ± 0.54	0.22 ± 0.09	0.97 ± 0.33	0.78 ± 0.22
1985				
Weekend	1.40 ± 0.97	0.46 ± 0.21	0.74 ± 0.41	1.13 ± 0.64
Weekday	2.14 ± 0.67	1.09 ± 0.44	0.87 ± 0.33	1.34 ± 0.30

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.8. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the low-use season by species, day type and area (1983-1986).

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84					
	Weekend	0.17 $\pm$ 0.12	0.00	0.00	0.06 $\pm$ 0.04
	Weekday	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
1984-85					
	Weekend	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01
	Weekday	0.10 $\pm$ 0.10	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.03 $\pm$ 0.03
1985-86					
	Weekend	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
	Weekday	0.34 $\pm$ 0.33	<.01 $\pm$ <.01	0.00	0.09 $\pm$ 0.09
Black drum					
1983-84					
	Weekend	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
	Weekday	0.04 $\pm$ 0.03	0.03 $\pm$ 0.02	0.00	0.02 $\pm$ 0.01
1984-85					
	Weekend	0.06 $\pm$ 0.04	<.01 $\pm$ <.01	0.00	0.02 $\pm$ 0.02
	Weekday	0.04 $\pm$ 0.03	0.02 $\pm$ 0.01	0.00	0.02 $\pm$ 0.01
1985-86					
	Weekend	0.04 $\pm$ 0.03	<.01 $\pm$ <.01	0.00	0.02 $\pm$ 0.02
	Weekday	0.04 $\pm$ 0.03	0.02 $\pm$ 0.02	0.00	0.02 $\pm$ 0.01
Gafftopsail catfish					
1983-84					
	Weekend	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
	Weekday	0.03 $\pm$ 0.02	<.01 $\pm$ <.01	0.00	0.01 $\pm$ 0.01
1984-85					
	Weekend	<.01 $\pm$ <.01	0.04 $\pm$ 0.03	0.00	0.02 $\pm$ 0.02
	Weekday	0.02 $\pm$ 0.02	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
1985-86					
	Weekend	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
	Weekday	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
Red drum					
1983-84					
	Weekend	0.00	0.00	0.00	0.00
	Weekday	0.00	0.00	0.00	0.00
1984-85					
	Weekend	0.00	0.00	0.00	0.00
	Weekday	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01
1985-86					
	Weekend	0.00	0.00	0.00	0.00
	Weekday	0.00	0.00	0.00	0.00

Table G.8. (Con't.d)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Sand seatrout				
1983-84				
Weekend	0.19 ± 0.19	0.18 ± 0.18	0.02 ± 0.02	0.17 ± 0.12
Weekday	0.00	0.09 ± 0.09	0.15 ± 0.10	0.08 ± 0.04
1984-85				
Weekend	0.01 ± 0.01	0.06 ± 0.06	0.12 ± 0.11	0.05 ± 0.03
Weekday	0.02 ± 0.02	0.01 ± 0.01	0.36 ± 0.28	0.19 ± 0.14
1985-86				
Weekend	<.01 ± <.01	0.01 ± 0.01	0.48 ± 0.26	0.10 ± 0.04
Weekday	0.12 ± 0.07	0.28 ± 0.22	0.41 ± 0.24	0.28 ± 0.12
Sheepshead				
1983-84				
Weekend	<.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday	0.00	0.00	0.03 ± 0.02	0.01 ± 0.01
1984-85				
Weekend	<.01 ± <.01	0.00	0.30 ± 0.30	0.05 ± 0.05
Weekday	0.00	0.00	0.02 ± 0.02	0.01 ± 0.01
1985-86				
Weekend	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00
Southern flounder				
1983-84				
Weekend	0.00	0.00	0.00	0.00
Weekday	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1984-85				
Weekend	0.00	<.01 ± <.01	0.00	<.01 ± <.01
Weekday	0.00	0.00	<.01 ± <.01	<.01 ± <.01
1985-86				
Weekend	0.00	<.01 ± <.01	0.00	<.01 ± <.01
Weekday	0.00	<.01 ± <.01	0.01 ± 0.01	<.01 ± <.01
Spotted seatrout				
1983-84				
Weekend	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00
1984-85				
Weekend	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	<.01 ± <.01	<.01 ± <.01
1985-86				
Weekend	0.00	0.00	0.00	0.00
Weekday	0.00	0.05 ± 0.05	<.01 ± <.01	0.02 ± 0.02



Table G.8. (Con't.d)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Other species				
1983-84				
Weekend	<.01	0.02	0.17	0.02
Weekday	0.02	0.06	0.12	0.07
1984-85				
Weekend	<.01	0.05	0.20	0.06
Weekday	0.02	0.01	0.29	0.15
1985-86				
Weekend	0.01	0.03	0.47	0.10
Weekday	0.18	0.02	0.31	0.16
All species combined <sup>a</sup>				
1983-84				
Weekend	0.38 ± 0.26	0.22 ± 0.19	0.18 ± 0.13	0.27 ± 0.14
Weekday	0.11 ± 0.08	0.18 ± 0.15	0.31 ± 0.14	0.21 ± 0.08
1984-85				
Weekend	0.09 ± 0.05	0.14 ± 0.10	0.61 ± 0.43	0.21 ± 0.09
Weekday	0.21 ± 0.14	0.06 ± 0.03	0.68 ± 0.43	0.42 ± 0.21
1985-86				
Weekend	0.06 ± 0.04	0.06 ± 0.04	0.95 ± 0.56	0.23 ± 0.10
Weekday	0.69 ± 0.46	0.39 ± 0.24	0.73 ± 0.37	0.59 ± 0.21

<sup>a</sup> Due to rounding of numbers, these totals may not exactly equal individual totals.

Table G.9. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes by species, season and area (1978-1986)<sup>a</sup>. Number in parenthesis indicates number of surveys.

Area	Year	Sand seatrout	Atlantic croaker	Other	All species combined
	Season				
Galveston					
	1978-79				
	High use (12)	1.85 $\pm$ 0.66	0.59 $\pm$ 0.25	0.16	2.59 $\pm$ 0.71
	Low use (8)	0.00	0.00	0.14	0.14 $\pm$ 0.08
	1981-82				
	High use (15)	0.52 $\pm$ 0.23	0.52 $\pm$ 0.16	0.32	1.35 $\pm$ 0.28
	Low use (3)	0.00	0.02 $\pm$ 0.02	0.08	0.09 $\pm$ 0.04
	1983-84				
	High use (16)	0.40 $\pm$ 0.20	0.34 $\pm$ 0.19	0.24	0.98 $\pm$ 0.39
	Low use (10)	0.11 $\pm$ 0.11	0.10 $\pm$ 0.07	0.06	0.27 $\pm$ 0.16
	1984-85				
	High use (19)	0.46 $\pm$ 0.26	0.23 $\pm$ 0.12	0.07	0.76 $\pm$ 0.38
	Low use (15)	0.02 $\pm$ 0.01	0.04 $\pm$ 0.03	0.08	0.13 $\pm$ 0.06
	1985-86				
	High use (21)	1.24 $\pm$ 0.70	0.20 $\pm$ 0.10	0.10	1.56 $\pm$ 0.84
	Low use (21)	0.05 $\pm$ 0.03	0.14 $\pm$ 0.13	0.13	0.32 $\pm$ 0.19
Corpus Christi					
	1978-79				
	High use (19)	1.32 $\pm$ 0.33	0.02 $\pm$ 0.01	0.25	1.58 $\pm$ 0.33
	Low use (5)	0.12 $\pm$ 0.10	0.00	0.16	0.29 $\pm$ 0.19
	1981-82				
	High use (13)	1.10 $\pm$ 0.40	0.04 $\pm$ 0.01	0.11	1.25 $\pm$ 0.40
	Low use (6)	0.11 $\pm$ 0.05	0.00	0.15	0.25 $\pm$ 0.07
	1983-84				
	High use (19)	0.56 $\pm$ 0.17	0.01 $\pm$ 0.01	0.12	0.70 $\pm$ 0.20
	Low use (15)	0.15 $\pm$ 0.13	0.00	0.05	0.20 $\pm$ 0.14
	1984-85				
	High use (19)	0.17 $\pm$ 0.07	<.01 $\pm$ <.01	0.06	0.22 $\pm$ 0.08
	Low use (13)	0.04 $\pm$ 0.04	0.00	0.08	0.12 $\pm$ 0.07
	1985-86				
	High use (20)	0.64 $\pm$ 0.21	0.02 $\pm$ 0.01	0.10	0.83 $\pm$ 0.26
	Low use (21)	0.20 $\pm$ 0.16	<.01 $\pm$ <.01	0.08	0.30 $\pm$ 0.17

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

Area	Year Season	Sand seatrout	Atlantic croaker	Other	All species combined
Lower Laguna Madre					
1978-79					
	High use (14)	0.52 ± 0.19	0.01 ± 0.01	0.19	0.71 ± 0.20
	Low use (5)	0.08 ± 0.08	<.01	0.08	0.16 ± 0.07
1981-82					
	High use (10)	0.60 ± 0.20	0.01 ± 0.01	0.22	0.90 ± 0.19
	Low use (6)	0.13 ± 0.11	0.00	0.33	0.46 ± 0.17
1983-84					
	High use (18)	0.28 ± 0.10	0.03 ± 0.01	0.21	0.52 ± 0.16
	Low use (14)	0.13 ± 0.08	0.01 ± 0.01	0.15	0.29 ± 0.12
1984-85					
	High use (20)	0.84 ± 0.26	0.01 ± <.01	0.12	0.98 ± 0.29
	Low use (16)	0.29 ± 0.19	<.01 ± <.01	0.37	0.66 ± 0.33
1985-86					
	High use (21)	0.64 ± 0.21	0.02 ± 0.01	0.16	0.82 ± 0.26
	Low use (20)	0.43 ± 0.19	0.00	0.36	0.79 ± 0.31
Coastwide Total					
1978-79					
	High use (45)	1.21 ± 0.24	0.34 ± 0.08	0.19	2.02 ± 0.22
	Low use (18)	0.06 ± 0.03	<.01	0.12	0.19 ± 0.04
1981-82					
	High use (38)	0.73 ± 0.17	0.26 ± 0.05	0.22	1.25 ± 0.12
	Low use (15)	0.10 ± 0.05	0.01 ± 0.01	0.11	0.27 ± 0.04
1983-84					
	High use (53)	0.45 ± 0.11	0.14 ± 0.07	0.18	0.78 ± 0.17
	Low use (39)	0.13 ± 0.07	0.04 ± 0.02	0.07	0.24 ± 0.09
1984-85					
	High use (58)	0.44 ± 0.14	0.12 ± 0.05	0.08	0.63 ± 0.19
	Low use (44)	0.11 ± 0.06	0.01 ± 0.01	0.17	0.29 ± 0.01
1985-86					
	High use (62)	0.96 ± 0.35	0.12 ± 0.04	0.11	1.22 ± 0.42
	Low use (63)	0.20 ± 0.08	0.09 ± 0.09	0.18	0.44 ± 0.13

<sup>a</sup>1978-1982 data from McEachron (1984).

Table G.10. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes by species and area (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker				
1983-84	0.12 $\pm$ 0.01	0.20 $\pm$ 0.05	0.26 $\pm$ 0.05	0.12 $\pm$ 0.02
1984-85	0.12 $\pm$ 0.01	0.13 $\pm$ 0.07	0.14 $\pm$ 0.02	0.12 $\pm$ 0.01
1985-86	0.12 $\pm$ 0.01	0.12 $\pm$ 0.03	0.12 $\pm$ 0.02	0.12 $\pm$ 0.01
Black drum				
1983-84	2.54 $\pm$ 0.99	7.66 $\pm$ 2.01	0.46	2.99 $\pm$ 1.08
1984-85	3.52 $\pm$ 0.83	11.01 $\pm$ 1.34		3.96 $\pm$ 0.86
1985-86	5.81 $\pm$ 0.92	8.62 $\pm$ 0.69		6.22 $\pm$ 0.89
Gafftopsail catfish				
1983-84	0.76 $\pm$ 0.30	1.44 $\pm$ 0.20		1.14 $\pm$ 0.24
1984-85	0.94 $\pm$ 0.25	0.75 $\pm$ 0.19		0.78 $\pm$ 0.20
1985-86	0.68 $\pm$ 0.13	0.81 $\pm$ 0.21		0.71 $\pm$ 0.15
Red drum				
1983-84	0.71			0.71
1984-85	3.83			3.83
1985-86	0.81		1.12	0.92
Sand seatrout				
1983-84	0.23 $\pm$ 0.01	0.24 $\pm$ 0.01	0.27 $\pm$ 0.02	0.24 $\pm$ 0.01
1984-85	0.23 $\pm$ 0.01	0.23 $\pm$ 0.01	0.23 $\pm$ 0.01	0.23 $\pm$ 0.01
1985-86	0.18 $\pm$ 0.01	0.20 $\pm$ 0.01	0.23 $\pm$ 0.01	0.19 $\pm$ 0.01
Sheepshead				
1983-84	1.15 $\pm$ 0.14		0.55 $\pm$ 0.03	0.67 $\pm$ 0.06
1984-85	0.85		0.63 $\pm$ 0.02	0.64 $\pm$ 0.03
1985-86		0.72		0.72
Southern flounder				
1983-84	0.50 $\pm$ 0.16	0.56		0.51 $\pm$ 0.26
1984-85	0.41 $\pm$ 0.07	0.39 $\pm$ 0.30	0.43	0.41 $\pm$ 0.23
1985-86	0.41 $\pm$ 0.07	0.43 $\pm$ 0.08	0.36 $\pm$ 0.09	0.42 $\pm$ 0.08
Spotted seatrout				
1983-84		0.34 $\pm$ 0.03	0.41 $\pm$ 0.06	0.34 $\pm$ 0.03
1984-85		0.29	0.39 $\pm$ 0.02	0.35 $\pm$ 0.13
1985-86	0.58 $\pm$ 0.20	0.59 $\pm$ 0.02	0.25 $\pm$ 0.06	0.49 $\pm$ 0.04
All species combined <sup>a</sup>				
1983-84	0.55 $\pm$ 0.14	0.36 $\pm$ 0.04	0.32 $\pm$ 0.02	0.45 $\pm$ 0.09
1984-85	0.40 $\pm$ 0.10	0.51 $\pm$ 0.18	0.21 $\pm$ 0.01	0.35 $\pm$ 0.08
1985-86	0.34 $\pm$ 0.12	0.27 $\pm$ 0.08	0.18 $\pm$ 0.01	0.30 $\pm$ 0.10

<sup>a</sup>Includes "other" species.

Table G.11. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the high-use season by species, day type and area (1983-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area			Coastwide
		Galveston	Corpus Christi	Lower Laguna Madre	
Atlantic croaker					
	1983				
	Weekend	0.11 $\pm$ 0.02	0.14 $\pm$ 0.05	0.11 $\pm$ 0.02	0.11 $\pm$ 0.02
	Weekday	0.13 $\pm$ 0.02	0.22 $\pm$ 0.06	0.30 $\pm$ 0.04	0.16 $\pm$ 0.03
	1984				
	Weekend	0.13 $\pm$ 0.01	0.20	0.09 $\pm$ 0.09	0.13 $\pm$ 0.02
	Weekday	0.12 $\pm$ 0.01		0.16 $\pm$ 0.02	0.12 $\pm$ 0.01
	1985				
	Weekend	0.11 $\pm$ 0.01		0.09 $\pm$ 0.01	0.11 $\pm$ 0.01
	Weekday	0.12 $\pm$ 0.01	0.12 $\pm$ 0.04	0.14 $\pm$ 0.02	0.12 $\pm$ 0.01
Black drum					
	1983				
	Weekend	0.54 $\pm$ 0.08	1.63		0.59 $\pm$ 0.16
	Weekday	1.19 $\pm$ 0.42		0.46	1.16 $\pm$ 0.42
	1984				
	Weekend	2.41 $\pm$ 0.24			2.41 $\pm$ 0.24
	Weekday	1.54 $\pm$ 0.13			1.54 $\pm$ 0.13
	1985				
	Weekend	2.75 $\pm$ 0.33			2.75 $\pm$ 0.33
	Weekday	1.42 $\pm$ 0.25	1.72		1.45 $\pm$ 0.39
Gafftopsail catfish					
	1983				
	Weekend		0.74 $\pm$ 0.05		0.74 $\pm$ 0.05
	Weekday	0.31 $\pm$ 0.03	1.43 $\pm$ 0.25		0.91 $\pm$ 0.15
	1984				
	Weekend	0.53	0.43 $\pm$ 0.10		0.45 $\pm$ 0.18
	Weekday	1.52 $\pm$ 0.33	0.86 $\pm$ 0.34		0.92 $\pm$ 0.34
	1985				
	Weekend	0.47 $\pm$ 0.09	0.32 $\pm$ 0.18		0.46 $\pm$ 0.10
	Weekday	0.48 $\pm$ 0.05	0.85 $\pm$ 0.24		0.66 $\pm$ 0.14
Red drum					
	1983				
	Weekend	0.71			0.71
	Weekday				
	1984				
	Weekend				
	Weekday				
	1985				
	Weekend	0.81			0.81
	Weekday			1.12	1.12

Table G.11. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Sand seatrout				
1983				
Weekend	0.26 ± 0.02	0.23 ± 0.02	0.27 ± 0.03	0.24 ± 0.02
Weekday	0.22 ± 0.01	0.25 ± 0.01	0.24 ± 0.02	0.23 ± 0.01
1984				
Weekend	0.20 ± 0.02	0.21 ± 0.01	0.23 ± 0.01	0.21 ± 0.02
Weekday	0.24 ± 0.02	0.23 ± 0.02	0.24 ± 0.01	0.24 ± 0.01
1985				
Weekend	0.19 ± 0.01	0.17 ± 0.01	0.20 ± 0.01	0.19 ± 0.01
Weekday	0.17 ± 0.01	0.20 ± 0.01	0.22 ± 0.01	0.19 ± 0.01
Sheepshead				
1983				
Weekend	1.13		0.56	0.71 ± 0.71
Weekday	0.92		0.75 ± 0.07	0.78 ± 0.25
1984				
Weekend				
Weekday				
1985				
Weekend		0.72		0.72
Weekday				
Southern flounder				
1983				
Weekend	0.62 ± 0.08			0.62 ± 0.08
Weekday		0.56		0.56
1984				
Weekend	0.41 ± 0.07			0.41 ± 0.07
Weekday		0.85		0.85
1985				
Weekend	0.40 ± 0.40	0.37 ± 0.08		0.37 ± 0.11
Weekday	0.42 ± 0.10	0.14 ± 0.14	0.19	0.34 ± 0.12
Spotted seatrout				
1983				
Weekend		0.35 ± 0.02	0.27	0.33 ± 0.10
Weekday		0.34 ± 0.04	0.44 ± 0.06	0.34 ± 0.04
1984				
Weekend		0.29	0.42	0.32 ± 0.32
Weekday			0.41 ± 0.01	0.41 ± 0.01
1985				
Weekend		0.56 ± 0.07	0.21 ± 0.03	0.34 ± 0.04
Weekday	0.58 ± 0.19	0.57	0.56	0.57 ± 0.56

Table G.11. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>				
1983				
Weekend	0.25 ± 0.05	0.28 ± 0.02	0.34 ± 0.03	0.27 ± 0.04
Weekday	0.50 ± 0.16	0.33 ± 0.03	0.30 ± 0.03	0.42 ± 0.10
1984				
Weekend	0.21 ± 0.09	0.18 ± 0.02	0.20 ± <.01	0.20 ± 0.06
Weekday	0.22 ± 0.04	0.22 ± 0.02	0.20 ± <.01	0.21 ± 0.02
1985				
Weekend	0.17 ± 0.05	0.28 ± 0.16	0.16 ± 0.03	0.18 ± 0.06
Weekday	0.13 ± 0.02	0.14 ± 0.02	0.16 ± 0.02	0.14 ± 0.02

<sup>a</sup>Includes "other" species.

Table G.12. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the low-use season by species, day type and area (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area			Coastwide
		Galveston	Corpus Christi	Lower Laguna Madre	
	Day type				
Atlantic croaker					
	1983-84				
	Weekend	0.08 $\pm$ 0.00			0.08 $\pm$ 0.00
	Weekday	0.08 $\pm$ 0.01		0.23	0.15 $\pm$ 0.12
	1984-85				
	Weekend	0.06			0.06
	Weekday	0.09	0.06	0.08	0.09 $\pm$ 0.09
	1985-86				
	Weekend	0.08			0.08
	Weekday	0.09 $\pm$ 0.01	0.12 $\pm$ 0.00		0.09 $\pm$ 0.01
Black drum					
	1983-84				
	Weekend	0.72 $\pm$ 0.27	11.35		6.73 $\pm$ 6.54
	Weekday	6.17 $\pm$ 0.68	7.12 $\pm$ 1.38		6.54 $\pm$ 0.95
	1984-85				
	Weekend	3.94 $\pm$ 1.31	12.03		4.15 $\pm$ 1.59
	Weekday	5.10 $\pm$ 1.84	10.90 $\pm$ 1.48		6.94 $\pm$ 1.72
	1985-86				
	Weekend	6.04 $\pm$ 0.30	8.92		6.11 $\pm$ 0.51
	Weekday	7.75 $\pm$ 0.14	9.09 $\pm$ 0.40		8.34 $\pm$ 0.25
Gafftopsail catfish					
	1983-84				
	Weekend	1.03	2.06		1.82 $\pm$ 1.82
	Weekday	1.19 $\pm$ 0.03	1.64		1.25 $\pm$ 0.24
	1984-85				
	Weekend	3.94 $\pm$ 1.31	0.40 $\pm$ 0.42		0.52 $\pm$ 0.41
	Weekday	5.10 $\pm$ 1.84	1.20 $\pm$ 0.44		0.84 $\pm$ 0.20
	1985-86				
	Weekend	0.47			0.47
	Weekday	1.09 $\pm$ 0.21	1.36 $\pm$ 1.04		1.20 $\pm$ 0.54
Red drum					
	1983-84				
	Weekend				
	Weekday				
	1984-85				
	Weekend				
	Weekday	3.83			3.83
	1985-86				
	Weekend				
	Weekday				



Table G.12. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Sand seatrout				
1983-84				
Weekend	0.23	0.32	0.23 ± 0.01	0.29 ± 0.28
Weekday		0.26	0.31 ± 0.05	0.29 ± 0.12
1984-85				
Weekend	0.22	0.30	0.26 ± 0.02	0.27 ± 0.18
Weekday	0.33	0.12	0.23 ± 0.02	0.23 ± 0.03
1985-86				
Weekend	0.32 ± 0.04	0.21 ± 0.07	0.29 ± 0.02	0.29 ± 0.02
Weekday	0.21 ± 0.04	0.23 ± 0.01	0.27 ± 0.01	0.25 ± 0.01
Sheepshead				
1983-84				
Weekend	1.41			1.41
Weekday			0.52 ± 0.02	0.52 ± 0.02
1984-85				
Weekend	0.85		0.62	0.63 ± 0.63
Weekday			0.69 ± 0.09	0.69 ± 0.09
1985-86				
Weekend				
Weekday				
Southern flounder				
1983-84				
Weekend				
Weekday	0.12			0.12
1984-85				
Weekend		0.17		0.17
Weekday			0.43 ± 0.43	0.43
1985-86				
Weekend		0.87		0.87
Weekday		0.56	0.39 ± 0.08	0.42 ± 0.17
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday			0.24	0.24
1985-86				
Weekend				
Weekday		0.61 ± 0.01	0.42	0.60 ± 0.03

Table G.12. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>				
1983-84				
Weekend	0.25 ± 0.06	0.82 ± 0.58	0.18 ± 0.07	0.50 ± 0.29
Weekday	3.84 ± 0.72	1.57 ± 1.17	0.36 ± 0.05	1.34 ± 0.48
1984-85				
Weekend	2.29 ± 1.11	0.52 ± 0.04	0.36 ± 0.15	0.72 ± 0.27
Weekday	2.56 ± 1.27	4.64 ± 2.12	0.20 ± 0.03	0.66 ± 0.26
1985-86				
Weekend	4.73 ± 1.27	1.67	0.23 ± 0.02	1.04 ± 0.32
Weekday	1.59 ± 1.00	0.68 ± 0.50	0.21 ± 0.01	0.77 ± 0.45

<sup>a</sup>Includes "other" species.

Table G.13. Annual mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes by species and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
<b>Atlantic croaker</b>				
1983-84	206 $\pm$ 7	238 $\pm$ 22	266 $\pm$ 18	209 $\pm$ 8
1984-85	208 $\pm$ 4	213 $\pm$ 41	224 $\pm$ 12	210 $\pm$ 4
1985-86	208 $\pm$ 4	205 $\pm$ 17	210 $\pm$ 10	208 $\pm$ 5
<b>Black drum</b>				
1983-84	479 $\pm$ 74	783 $\pm$ 88	320	507 $\pm$ 77
1984-85	587 $\pm$ 45	910 $\pm$ 29		610 $\pm$ 42
1985-86	714 $\pm$ 50	837 $\pm$ 31		732 $\pm$ 47
<b>Gafftopsail catfish</b>				
1983-84	400 $\pm$ 53	514 $\pm$ 25		464 $\pm$ 24
1984-85	446 $\pm$ 36	398 $\pm$ 33		407 $\pm$ 18
1985-86	402 $\pm$ 21	405 $\pm$ 36		402 $\pm$ 24
<b>Red drum</b>				
1983-84	408			408
1984-85	704			704
1985-86	425		473	442
<b>Sand seatrout</b>				
1983-84	275 $\pm$ 5	280 $\pm$ 5	291 $\pm$ 8	279 $\pm$ 5
1984-85	278 $\pm$ 6	276 $\pm$ 5	279 $\pm$ 3	278 $\pm$ 4
1985-86	254 $\pm$ 4	265 $\pm$ 3	278 $\pm$ 3	259 $\pm$ 4
<b>Sheepshead</b>				
1983-84	405 $\pm$ 17		312 $\pm$ 6	335 $\pm$ 5
1984-85	366		328 $\pm$ 2	330 $\pm$ 4
1985-86		345		345
<b>Southern flounder</b>				
1983-84	330 $\pm$ 42	365		342 $\pm$ 98
1984-85	330 $\pm$ 17	304 $\pm$ 76	336	323 $\pm$ 89
1985-86	324 $\pm$ 18	325 $\pm$ 21	311 $\pm$ 25	324 $\pm$ 21
<b>Spotted seatrout</b>				
1983-84		331 $\pm$ 8	351 $\pm$ 17	332 $\pm$ 8
1984-85		318	349 $\pm$ 6	337 $\pm$ 82
1985-86	393 $\pm$ 43	395 $\pm$ 4	295 $\pm$ 20	366 $\pm$ 9
<b>All species combined<sup>a</sup></b>				
1983-84	278 $\pm$ 12	288 $\pm$ 5	289 $\pm$ 4	283 $\pm$ 8
1984-85	288 $\pm$ 13	304 $\pm$ 13	283 $\pm$ 3	288 $\pm$ 7
1985-86	265 $\pm$ 10	276 $\pm$ 6	280 $\pm$ 3	269 $\pm$ 8

<sup>a</sup>Includes "other" species.

Table G.14. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the high-use season by species, day type and area (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Area				
	Year	Galveston	Corpus	Lower	Coastwide
			Christi	Laguna Madre	
Day type					
Atlantic croaker					
1983					
Weekend	205 $\pm$ 10	212 $\pm$ 27	207 $\pm$ 12	205 $\pm$ 10	
Weekday	213 $\pm$ 13	245 $\pm$ 25	281 $\pm$ 14	224 $\pm$ 12	
1984					
Weekend	213 $\pm$ 8	253	198	213 $\pm$ 10	
Weekday	207 $\pm$ 5		234 $\pm$ 9	207 $\pm$ 5	
1985					
Weekend	202 $\pm$ 6		197 $\pm$ 5	201 $\pm$ 6	
Weekday	210 $\pm$ 5	204 $\pm$ 19	224 $\pm$ 8	210 $\pm$ 6	
Black drum					
1983					
Weekend	320 $\pm$ 11	488		331 $\pm$ 34	
Weekday	394 $\pm$ 33		320	390 $\pm$ 40	
1984					
Weekend	515 $\pm$ 28			515 $\pm$ 28	
Weekday	454 $\pm$ 20			454 $\pm$ 20	
1985					
Weekend	561 $\pm$ 32			561 $\pm$ 32	
Weekday	440 $\pm$ 31	497		445 $\pm$ 76	
Gafftopsail catfish					
1983					
Weekend		423 $\pm$ 1		423 $\pm$ 1	
Weekday	321 $\pm$ 9	513 $\pm$ 34		426 $\pm$ 14	
1984					
Weekend	389	361 $\pm$ 24		370 $\pm$ 51	
Weekday	537 $\pm$ 37	423 $\pm$ 47		436 $\pm$ 24	
1985					
Weekend	358 $\pm$ 12	322 $\pm$ 56		356 $\pm$ 15	
Weekday	370 $\pm$ 12	415 $\pm$ 42		392 $\pm$ 27	
Red drum					
1983					
Weekend	408			408	
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend	425			425	
Weekday			473	473	

Table G.14. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Sand seatrout				
1983				
Weekend	288 ± 9	275 ± 9	292 ± 10	279 ± 8
Weekday	270 ± 4	282 ± 5	280 ± 6	275 ± 4
1984				
Weekend	262 ± 10	298	277 ± 3	271 ± 6
Weekday	280 ± 7	227	281 ± 5	275 ± 4
1985				
Weekend	257 ± 4	251 ± 3	266 ± 2	257 ± 4
Weekday	251 ± 6	264 ± 4	273 ± 4	260 ± 5
Sheepshead				
1983				
Weekend	404		313 ± 131	343 ± 194
Weekday	376		349 ± 12	358 ± 50
1984				
Weekend				
Weekday				
1985				
Weekend		345		345
Weekday				
Southern flounder				
1983				
Weekend	365 ± 8			365 ± 8
Weekday		365		365
1984				
Weekend	330 ± 17			330 ± 17
Weekday		417		417
1985				
Weekend	326	313 ± 25		314 ± 49
Weekday	323 ± 26	235	258	299 ± 93
Spotted seatrout				
1983				
Weekend		337 ± 6	310	328 ± 75
Weekday		331 ± 9	361 ± 16	332 ± 9
1984				
Weekend		318	356	326 ± 273
Weekday			353 ± 3	353 ± 3
1985				
Weekend		390 ± 16	282 ± 9	323 ± 12
Weekday	393 ± 43	395	390	394 ± 378

Table G.14. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>				
1983				
Weekend	250 ± 20	279 ± 7	287 ± 6	267 ± 11
Weekday	275 ± 6	286 ± 5	287 ± 4	280 ± 5
1984				
Weekend	274 ± 28	278 ± 6	279 ± 3	275 ± 18
Weekday	269 ± 16	293 ± 12	282 ± 4	276 ± 8
1985				
Weekend	260 ± 9	268 ± 11	271 ± 8	262 ± 9
Weekday	244 ± 6	265 ± 4	274 ± 3	257 ± 5

<sup>a</sup>Includes "other" species.

Table G.15. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by headboat fishermen in Texas bays and passes during the low-use season by species, day type and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Atlantic croaker				
1983-84				
Weekend	188 $\pm$ 1			188 $\pm$ 1
Weekday	184 $\pm$ 9		261	223 $\pm$ 90
1984-85				
Weekend	167			167
Weekday	196	172	190	192 $\pm$ 188
1985-86				
Weekend	188			188
Weekday	188 $\pm$ 8	213 $\pm$ 2		188 $\pm$ 8
Black drum				
1983-84				
Weekend	366 $\pm$ 49	928		741 $\pm$ 349
Weekday	745 $\pm$ 34	784 $\pm$ 62		758 $\pm$ 32
1984-85				
Weekend	623 $\pm$ 73	950		659 $\pm$ 93
Weekday	688 $\pm$ 91	906 $\pm$ 32		797 $\pm$ 55
1985-86				
Weekend	752 $\pm$ 14	860		754 $\pm$ 35
Weekday	817 $\pm$ 5	860 $\pm$ 10		835 $\pm$ 7
Gafftopsail catfish				
1983-84				
Weekend	480	589		553 $\pm$ 319
Weekday	475 $\pm$ 2	555		502 $\pm$ 66
1984-85				
Weekend	598 $\pm$ 25	306 $\pm$ 116		348 $\pm$ 57
Weekday	404 $\pm$ 13	467 $\pm$ 83		425 $\pm$ 28
1985-86				
Weekend	375			375
Weekday	473 $\pm$ 30	479 $\pm$ 147		475 $\pm$ 76
Red drum				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday	704			704
1985-86				
Weekend				
Weekday				

Table G.15. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Sand seatrout				
1983-84				
Weekend	279	307	277 ± 1	296 ± 290
Weekday		288	305 ± 17	300 ± 64
1984-85				
Weekend	269	298	288 ± 7	291 ± 129
Weekday	309	227	277 ± 9	277 ± 9
1985-86				
Weekend	309 ± 12	269 ± 32	299 ± 5	299 ± 6
Weekday	267 ± 15	277 ± 2	294 ± 3	285 ± 4
Sheepshead				
1983-84				
Weekend	436			436
Weekday			307 ± 3	307 ± 3
1984-85				
Weekend	366		326	328 ± 165
Weekday			335 ± 16	335 ± 16
1985-86				
Weekend				
Weekday				
Southern flounder				
1983-84				
Weekend	224			224
Weekday		247		247
1984-85				
Weekend			336	336
Weekday				
1985-86				
Weekend		420		420
Weekday		365	322 ± 23	330 ± 82
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday			298 ± 298	298
1985-86				
Weekend				
Weekday		397 ± 2	356	395 ± 16



Table G.15. (Cont'd.)

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined <sup>a</sup>				
1983-84				
Weekend	243 ± 24	334 ± 38	285 ± 7	286 ± 28
Weekday	577 ± 46	390 ± 90	297 ± 12	376 ± 26
1984-85				
Weekend	475 ± 99	296 ± 8	302 ± 14	328 ± 17
Weekday	503 ± 82	553 ± 133	283 ± 6	322 ± 11
1985-86				
Weekend	583 ± 91	373 ± 82	294 ± 4	346 ± 23
Weekday	369 ± 63	315 ± 36	297 ± 1	325 ± 30

<sup>a</sup>Includes "other" species.

Table G.16. Percent composition of "other" species caught by headboat fishermen in Texas bays and passes by area, season and day type (1983-1986).

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Christi	Lower Laguna Madre	Coastwide	
1983-84	High use								
	Weekend		Atlantic spadefish	<u>Chaetodipterus faber</u>	1.85				0.62
			Florida pompano	<u>Trachinotus carolinus</u>	1.85				0.62
			Ladyfish	<u>Elops saurus</u>	1.85				0.62
			Pigfish	<u>Orthopristis chrysoptera</u>	5.56		5.17		3.70
			Pinfish	<u>Lagodon rhomboides</u>	9.26				3.09
			Sharks sp.						
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>		2.00			0.62
			Requiem sharks	Family <u>Carcharhinidae</u>		2.00			0.62
			Scalloped hammerhead	<u>Sphyrna lewini</u>		2.00			0.62
			Silver perch	<u>Bairdiella chrysoura</u>	55.56				18.52
			Snappers sp.	Family <u>Lutjanidae</u>					
			Red snapper	<u>Lutjanus campechanus</u>			3.45		1.23
			Southern kingfish	<u>Menticirrhus americanus</u>	22.22	94.00	91.38		69.14
			Spot	<u>Leiostomus xanthurus</u>	1.85				0.62
			Bay whiff	<u>Citharichthys spilopterus</u>	0.32				0.12
			Bluefish	<u>Pomatomus saltatrix</u>	0.32				0.12
			Blue runner	<u>Caranx crysos</u>	0.32		0.23		0.25
			Crevalle jack	<u>Caranx hippos</u>	0.32	1.59			0.25
			Gulf flounder	<u>Paralichthys albigutta</u>			0.68		0.37
			Hardhead catfish	<u>Arius felis</u>	5.14	7.94	0.23		2.70
			King mackerel	<u>Scomberomorus cavalla</u>			0.23		0.12
			Pigfish	<u>Orthopristis chrysoptera</u>	0.32	7.94	0.45		0.98
			Pinfish	<u>Lagodon rhomboides</u>	0.32	1.59	0.23		0.37
			Sharks sp.						
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	5.47				2.09
			Blacktip shark	<u>Carcharhinus limbatus</u>	0.32		0.45		0.37
			Bonnethead	<u>Sphyrna tiburo</u>		1.59			0.12
			Hammerhead sp.	Family <u>Sphyrnidae</u>	0.32				0.12

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide	
Low use Weekend	Silver perch	<u>Bairdiella chrysoura</u>	3.54			1.35	
	Silver seatrout	<u>Cynoscion nothus</u>	0.64			0.25	
	Snappers sp. Red snapper	Family Lutjanidae <u>Lutjanus campechanus</u>			77.27	41.77	
	Southern kingfish	<u>Menticirrhus americanus</u>	82.64	79.37	20.23	48.65	
	Florida pompano	<u>Trachinotus carolinus</u>			3.23	2.50	
Weekend	Gulf kingfish	<u>Menticirrhus littoralis</u>		33.33		2.50	
	Hardhead catfish	<u>Arius felis</u>	16.67			2.50	
	Pigfish	<u>Orthopristis chrysoptera</u>	16.67			2.50	
	Pinfish	<u>Lagodon rhomboides</u>		66.67		5.00	
	Silver perch	<u>Bairdiella chrysoura</u>	16.67			2.50	
	Southern hake	<u>Urophycis floridanus</u>	16.67			2.50	
	Southern kingfish	<u>Menticirrhus americanus</u>	33.33		96.77	80.00	
	Weekday	Hardhead catfish	<u>Arius felis</u>	70.83			20.99
		Sharks sp. Bonnethead	<u>Sphyrna tiburo</u>	8.33			2.47
		Southern kingfish	<u>Menticirrhus americanus</u>	20.83	100.00	100.00	76.54
1984-85 High use Weekend	Atlantic cutlassfish	<u>Trichiurus lepturus</u>	1.05			0.63	
	Gulf kingfish	<u>Menticirrhus littoralis</u>	1.05		3.70	1.88	
	Hardhead catfish	<u>Arius felis</u>	1.05		7.41	3.13	
	Pigfish	<u>Orthopristis chrysoptera</u>		18.18	1.85	1.88	
	Pinfish	<u>Lagodon rhomboides</u>	1.05			0.63	
	Sharks sp. Blacktip shark	<u>Carcharhinus limbatus</u>	66.32			39.38	
	Bonnethead	<u>Sphyrna tiburo</u>		9.09		0.63	
	Finetooth shark	<u>Carcharhinus isodon</u>		9.09		0.63	
	Southern kingfish	<u>Menticirrhus americanus</u>	28.42	63.64	87.04	50.63	
	Spot	<u>Leiostomus xanthurus</u>	1.05			0.63	

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Weekday	Gulf flounder	<u>Paralichthys albigutta</u>			1.92	0.78
	Gulf kingfish	<u>Menticirrhus littoralis</u>	18.00		1.92	7.81
	Hardhead catfish	<u>Arius felis</u>	2.00	3.85	1.92	2.34
	Pigfish	<u>Orthopristis chrysoptera</u>	26.00			10.16
	Sharks sp.					
	Atlantic sharpnose shark	<u>Rhizoprionodon terranovae</u>	32.00			12.50
	Blacktip shark	<u>Carcharhinus limbatus</u>		3.85		0.78
	Bonnethead	<u>Sphyrna tiburo</u>	2.00	11.54		3.13
	Silver perch	<u>Bairdiella chrysoura</u>	4.00			1.56
	Southern kingfish	<u>Menticirrhus americanus</u>	16.00	80.77	94.23	60.94
Low use						
Weekend	Atlantic cutlassfish	<u>Trichiurus lepturus</u>	50.00			1.79
	Florida pompano	<u>Trachinotus carolinus</u>		35.29		10.71
	Pigfish	<u>Orthopristis chrysoptera</u>		17.65		5.36
	Pinfish	<u>Lagodon rhomboides</u>		11.76		3.57
	Southern kingfish	<u>Menticirrhus americanus</u>	50.00	35.29	100.00	78.57
	Weekday	Crevalle jack	<u>Caranx hippos</u>	6.67		
1985-86	Gulf flounder	<u>Paralichthys albigutta</u>			1.69	1.35
	Gulf kingfish	<u>Menticirrhus littoralis</u>	6.67			0.68
	Hardhead catfish	<u>Arius felis</u>	6.67		0.85	0.68
	Pigfish	<u>Orthopristis chrysoptera</u>				0.68
	Sharks sp.					
	Atlantic sharpnose shark	<u>Rhizoprionodon terraerovae</u>	46.67			4.73
	Bonnethead	<u>Sphyrna tiburo</u>		6.67		0.68
	Southern hake	<u>Urophycis floridanus</u>	6.67			0.68
	Southern kingfish	<u>Menticirrhus americanus</u>	26.67	93.33	97.46	89.86
	High use					
Weekend	Atlantic cutlassfish	<u>Trichiurus lepturus</u>			1.30	0.59
	Bluefish	<u>Pomatomus saltatrix</u>		4.35		1.18

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
	Crevalle jack	<u>Caranx hippos</u>	2.08	2.17		1.18
	Gulf flounder	<u>Paralichthys albigutta</u>			1.30	0.59
	Hardhead catfish	<u>Arius felis</u>	10.42	8.20		5.33
	Ladyfish	<u>Elops saurus</u>			1.30	0.59
	Pigfish	<u>Orthopristis chrysoptera</u>			6.49	2.96
	Sharks sp.					
	Atlantic sharpnose shark	<u>Rhizoprionodon terranovae</u>	4.17		1.30	1.78
	Blacktip shark	<u>Carcharhinus limbatus</u>	4.17		1.30	1.18
	Bonnethead	<u>Sphyrna tiburo</u>				0.59
	Dusky shark	<u>Carcharhinus obscurus</u>	2.08			0.59
	Sandbar shark	<u>Carcharhinus plumbeus</u>			1.30	0.59
	Southern kingfish	<u>Menticirrhus americanus</u>	70.83	80.43	85.71	81.06
	Spanish mackerel	<u>Scomberomorus maculatus</u>	6.25			1.78
	Atlantic cutlassfish	<u>Trichiurus lepturus</u>	0.55			0.31
	Atlantic spadefish	<u>Chaetodipterus faber</u>	1.10			0.61
	Crevalle jack	<u>Caranx hippos</u>	0.55			0.31
	Florida pompano	<u>Trachinotus carolinus</u>		2.17	1.02	0.61
	Gulf kingfish	<u>Menticirrhus littoralis</u>	2.75		4.08	2.76
	Hardhead catfish	<u>Arius felis</u>	3.85			2.15
	Pigfish	<u>Orthopristis chrysoptera</u>	1.65	2.17	6.12	3.07
	Pinfish	<u>Lagodon rhomboides</u>	3.85	2.17		2.45
	Sharks sp.					
	Blacktip shark	<u>Carcharhinus limbatus</u>	2.20	2.17		1.53
	Bonnethead	<u>Sphyrna tiburo</u>		4.35		0.61
	Hammerhead sharks	<u>Family Sphyrnidae</u>	0.55			0.31
	Smooth dogfish	<u>Mustelus canis</u>	30.22			16.87
	Silver seatrout	<u>Cynoscion nothus</u>	34.07			19.02
	Southern kingfish	<u>Menticirrhus americanus</u>	18.13	86.96	87.76	48.77
	Spot	<u>Leiostomus xanthurus</u>	0.55		1.02	0.61

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Low use Weekend	Bluefish	<u>Pomatomus saltatrix</u>		25.00		0.84
	Pigfish	<u>Orthopristis chrysoptera</u>	11.11			0.84
	Southern kingfish	<u>Menticirrhus americanus</u>	88.89	75.00	100.00	98.32
Weekday	Atlantic cutlassfish	<u>Trichiurus lepturus</u>	0.70			0.35
	Blackwing searobin	<u>Prionotus salmonicolor</u>			0.80	0.35
	Cownose ray	<u>Rhinopterus bonasus</u>	0.70			0.35
	Florida pompano	<u>Trachinotus carolinus</u>			0.80	0.35
	Gulf kingfish	<u>Menticirrhus littoralis</u>		6.67		0.71
	Hardhead catfish	<u>Arius felis</u>	0.70			0.35
	Little tunny	<u>Euthynnus alletteratus</u>	0.70			0.35
	Pigfish	<u>Orthopristis chrysoptera</u>	2.80			1.41
	Sharks sp.					
	Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	4.90			2.47
	Blacktip shark	<u>Carcharhinus limbatus</u>	2.80			1.41
	Bonnethead	<u>Sphyrna tiburo</u>	2.00			1.06
	Southern kingfish	<u>Menticirrhus americanus</u>	84.62	93.33	96.80	90.46
Stingrays sp.	Family <u>Dasyatidae</u>					
Atlantic stingray	<u>Dasyatis sabina</u>			0.80	0.35	

Table G.17. Percent composition of the annual residential origin of headboat fishermen-trips in Texas bays and passes by area (1983-1986).

Area Year	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1983-84	59	0	25	16
1984-85	64	1	17	17
1985-86	68	1	19	12
Corpus Christi				
1983-84	20	6	58	15
1984-85	19	9	57	15
1985-86	17	12	55	17
Lower Laguna Madre				
1983-84	10	10	48	33
1984-85	18	8	40	34
1985-86	17	12	41	31
Coastwide				
1983-84	34	4	42	20
1984-85	42	5	33	20
1985-86	43	6	33	18

Table G.18. Percent composition of the residential origin of headboat fishermen-trips in Texas bays and passes during the high-use season by area and day type (1983-1985).

Area	Year	Weekend			Weekday			Other states/countries
		Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	
Galveston								
	1983	68	0	25	42	0	35	23
	1984	72	0	15	61	1	18	20
	1985	67	1	27	78	1	13	7
Corpus Christi								
	1983	19	12	64	20	3	59	18
	1984	17	8	68	13	11	58	18
	1985	15	9	67	9	14	59	18
Lower Laguna Madre								
	1983	12	20	45	5	9	53	34
	1984	39	9	40	10	10	55	25
	1985	45	10	29	7	14	58	21
Coastwide								
	1983	37	8	45	27	3	46	24
	1984	49	4	36	37	5	37	21
	1985	51	5	35	39	8	38	14



Table G.19. Percent composition of the residential origin of headboat fishermen-trips in Texas bays and passes during the low-use season by area and day type (1983-1986).

Area Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries	Other states/ countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries	Other states/ countries
Galveston								
1983-84	93	0	4	3	62	0	14	24
1984-85	71	1	17	10	52	3	19	27
1985-86	73	1	11	15	54	1	24	21
Corpus Christi								
1983-84	29	3	62	6	13	3	37	47
1984-85	24	9	59	8	22	8	41	29
1985-86	22	22	52	3	27	7	40	26
Lower Laguna Madre								
1983-84	14	0	70	16	10	6	33	51
1984-85	34	7	33	25	10	3	21	66
1985-86	12	12	37	39	9	8	20	64
Coastwide								
1983-84	43	2	48	7	33	3	26	39
1984-85	53	4	32	12	31	4	26	39
1985-86	49	8	25	18	38	4	27	31

Table G.20. Mean fishing-party size (No. of fishermen) and mean fishing time (h) for headboat fishermen in Texas bays and passes by area, season and day type (1983-1986).

Area Year	Mean fishing-party size						Mean fishing time						
	High-use season		Low-use season		Annual	High-use season		Low-use season		Annual			
	Weekend	Weekday	Weekend	Weekday		Weekend	Weekday	Weekend	Weekday				
Galveston													
1983-84	52.5	41.3	24.8	34.3	39.7	2.7	3.4	2.5	3.6	3.1			
1984-85	55.3	37.8	47.0	32.2	41.5	2.5	2.4	2.3	2.2	2.3			
1985-86	50.6	42.3	37.8	42.1	43.1	2.6	2.4	2.4	2.5	2.5			
Corpus Christi													
1983-84	45.9	18.1	24.9	17.0	25.0	2.5	2.7	2.6	2.6	2.6			
1984-85	29.4	17.6	34.4	20.1	23.4	2.6	2.8	2.6	2.6	2.7			
1985-86	17.6	22.8	17.2	17.0	19.3	2.9	2.7	2.3	2.5	2.6			
Lower Laguna Madre													
1983-84	25.3	15.4	22.0	15.3	18.1	2.8	2.9	2.6	4.0	3.2			
1984-85	19.3	17.9	11.2	16.6	16.6	2.4	2.4	2.2	2.2	2.4			
1985-86	30.0	31.0	16.8	14.5	23.2	2.3	2.4	2.6	2.5	2.4			
Coastwide													
1983-84	41.5	24.0	24.1	20.6	26.7	2.7	3.0	2.6	3.4	3.0			
1984-85	34.4	24.4	31.6	22.5	27.1	2.5	2.5	2.4	2.4	2.4			
1985-86	32.9	31.8	24.8	24.1	28.6	2.6	2.5	2.4	2.5	2.5			

Appendix H: Estimates for private-boat fishing in the Texas Territorial Sea (TTS).

Table H.1. Number of days surveyed and number of private-boat fishermen interviewed ( ) in the TTS by season, day type and area (1982-1986). WE = weekend days. WD = weekdays.

Year Season Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1982-83					
High use					
WE	31 (46)	54 (268)	54 (470)	23 (81)	162 (865)
WD	66 (7)	116 (104)	122 (500)	55 (33)	359 (644)
Low use					
WE	12 (0)	24 (5)	24 (2)	12 (0)	72 (7)
WD	24 (0)	48 (16)	48 (2)	24 (2)	144 (20)
Annual	133 (53)	242 (393)	248 (974)	114 (116)	737 (1536)
1983-84					
High use					
WE	32 (25)	45 (189)	45 (300)	31 (62)	153 (576)
WD	63 (2)	84 (98)	96 (203)	66 (25)	309 (328)
Low use					
WE	12 (0)	24 (37)	22 (2)	12 (4)	70 (43)
WD	24 (0)	42 (0)	43 (5)	24 (3)	133 (8)
Annual	131 (27)	195 (324)	206 (510)	133 (94)	665 (955)
1984-85					
High use					
WE	31 (11)	40 (504)	41 (537)	31 (92)	143 (1144)
WD	65 (12)	87 (98)	95 (304)	66 (33)	313 (447)
Low use					
WE	12 (0)	20 (86)	21 (6)	12 (5)	66 (97)
WD	24 (0)	41 (7)	44 (7)	24 (6)	133 (20)
Annual	132 (23)	189 (695)	201 (854)	133 (136)	655 (1708)
1985-86					
High use					
WE	31 (84)	41 (439)	41 (634)	31 (38)	144 (1198)
WD	66 (7)	87 (154)	99 (243)	66 (30)	318 (434)
Low use					
WE	12 (3)	19 (51)	23 (8)	12 (2)	66 (64)
WD	24 (0)	43 (4)	43 (0)	24 (0)	134 (4)
Annual	133 (94)	190 (648)	206 (885)	133 (70)	662 (1700)

Table H.2. Pressure estimates (man-h x 1000)  $\pm$  1 SE for private-boat fishermen in the TTS by season and day type (1982-1986).

Area Year	High-use season		Low-use season		Annual <sup>a</sup>
	Weekend	Weekday	Weekend	Weekday	
<b>Galveston</b>					
1982-83	12.2 $\pm$ 5.1	29.5 $\pm$ 29.5	0.0	0.0	41.8 $\pm$ 30.0
1983-84	1.4 $\pm$ 0.8	135.9 $\pm$ 135.9	0.0	0.0	137.3 $\pm$ 135.9
1984-85	4.8 $\pm$ 3.4	3.1 $\pm$ 3.0	0.0	0.0	7.9 $\pm$ 4.5
1985-86	9.3 $\pm$ 5.8	3.8 $\pm$ 2.4	0.5 $\pm$ 0.5	0.0	13.7 $\pm$ 6.4
<b>Matagorda</b>					
1982-83	36.1 $\pm$ 8.2	10.1 $\pm$ 1.6	0.4 $\pm$ 0.1	2.0 $\pm$ 0.7	47.6 $\pm$ 8.1
1983-84	14.0 $\pm$ 4.9	4.3 $\pm$ 1.5	2.1 $\pm$ 1.2	0.0	20.4 $\pm$ 5.3
1984-85	18.0 $\pm$ 4.7	3.9 $\pm$ 1.0	17.2 $\pm$ 7.6	0.2 $\pm$ 0.2	39.3 $\pm$ 9.0
1985-86	19.4 $\pm$ 5.0	9.7 $\pm$ 3.1	5.9 $\pm$ 2.7	0.4 $\pm$ 0.4	35.4 $\pm$ 6.5
<b>Corpus Christi</b>					
1982-83	45.6 $\pm$ 6.9	38.1 $\pm$ 4.6	1.8 $\pm$ 0.9	0.6 $\pm$ 0.3	86.0 $\pm$ 8.4
1983-84	72.9 $\pm$ 32.3	45.8 $\pm$ 15.1	3.4 $\pm$ 3.4	24.5 $\pm$ 23.7	146.7 $\pm$ 42.9
1984-85	40.4 $\pm$ 12.9	39.0 $\pm$ 10.7	0.3 $\pm$ 0.2	0.7 $\pm$ 0.7	80.4 $\pm$ 16.8
1985-86	64.8 $\pm$ 16.9	35.6 $\pm$ 9.2	0.4 $\pm$ 0.3	0.0	100.8 $\pm$ 19.2
<b>Lower Laguna Madre</b>					
1982-83	7.6 $\pm$ 2.5	3.8 $\pm$ 1.7	0.0	0.4 $\pm$ 0.4	11.9 $\pm$ 3.1
1983-84	4.3 $\pm$ 1.4	4.0 $\pm$ 2.1	0.3 $\pm$ 0.3	0.6 $\pm$ 0.6	9.3 $\pm$ 2.6
1984-85	7.0 $\pm$ 2.7	11.1 $\pm$ 7.0	2.6 $\pm$ 2.0	1.5 $\pm$ 1.4	22.2 $\pm$ 7.9
1985-86	4.0 $\pm$ 2.2	13.9 $\pm$ 8.6	8.1 $\pm$ 8.1	0.0	26.0 $\pm$ 12.0
<b>Coastwide<sup>a</sup></b>					
1982-83	101.5 $\pm$ 21.5	81.5 $\pm$ 31.1	2.2 $\pm$ 1.8	3.0 $\pm$ 1.7	188.2 $\pm$ 37.9
1983-84	92.6 $\pm$ 32.7	190.0 $\pm$ 136.7	5.8 $\pm$ 3.6	25.1 $\pm$ 23.7	313.6 $\pm$ 142.6
1984-85	70.1 $\pm$ 14.4	57.2 $\pm$ 13.1	20.0 $\pm$ 7.9	2.5 $\pm$ 1.6	149.8 $\pm$ 21.1
1985-86	98.5 $\pm$ 18.7	63.0 $\pm$ 13.2	14.9 $\pm$ 8.5	0.4 $\pm$ 0.4	176.9 $\pm$ 24.4

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table H.3. Annual estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by private-boat fishermen in the TTS by species and area (1982-1986).

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
<b>Atlantic croaker</b>					
1982-83	0.3 $\pm$ 0.2	0.3 $\pm$ 0.1	0.1 $\pm$ <.1	0.3 $\pm$ 0.3	1.1 $\pm$ 0.4
1983-84	0.1 $\pm$ 0.1	0.1 $\pm$ 0.1	0.0	0.0	0.1 $\pm$ 0.1
1984-85	<.1 $\pm$ <.1	0.2 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1
1985-86	0.1 $\pm$ 0.1	0.8 $\pm$ 0.7	0.0	0.0	0.8 $\pm$ 0.7
<b>Atlantic sharpnose shark</b>					
1982-83 <sup>b</sup>					
1983-84	0.0	<.1 $\pm$ <.1	0.5 $\pm$ 0.4	0.0	0.5 $\pm$ 0.4
1984-85	0.0	<.1 $\pm$ <.1	0.2 $\pm$ 0.2	0.0	0.3 $\pm$ 0.2
1985-86	<.1 $\pm$ <.1	0.2 $\pm$ 0.1	1.5 $\pm$ 0.5	0.0	1.8 $\pm$ 0.5
<b>Cobia</b>					
1982-83	0.6 $\pm$ 0.6	0.2 $\pm$ <.1	0.1 $\pm$ <.1	<.1 $\pm$ <.1	0.9 $\pm$ 0.6
1983-84	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.1 $\pm$ <.1
1984-85	0.0	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.1 $\pm$ 0.1
1985-86	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.1 $\pm$ <.1
<b>King mackerel</b>					
1982-83	8.2 $\pm$ 7.3	2.5 $\pm$ 0.5	5.2 $\pm$ 0.8	0.4 $\pm$ 0.2	16.4 $\pm$ 7.5
1983-84	0.0	1.1 $\pm$ 0.5	9.4 $\pm$ 3.5	0.5 $\pm$ 0.3	11.0 $\pm$ 3.6
1984-85	0.0	0.7 $\pm$ 0.2	7.4 $\pm$ 2.2	0.7 $\pm$ 0.4	8.8 $\pm$ 2.2
1985-86	0.4 $\pm$ 0.3	1.6 $\pm$ 0.5	4.6 $\pm$ 1.5	0.1 $\pm$ <.1	6.6 $\pm$ 1.6
<b>Red drum</b>					
1982-83	0.0	0.2 $\pm$ <.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1
1983-84	0.0	0.4 $\pm$ 0.2	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.4 $\pm$ 0.2
1984-85	0.0	0.2 $\pm$ 0.1	0.3 $\pm$ 0.3	<.1 $\pm$ <.1	0.5 $\pm$ 0.3
1985-86	0.0	0.2 $\pm$ 0.1	0.0	0.0	0.2 $\pm$ 0.1
<b>Red snapper</b>					
1982-83	0.7 $\pm$ 0.7	15.8 $\pm$ 7.0	1.2 $\pm$ 0.5	2.4 $\pm$ 1.1	20.1 $\pm$ 13.5
1983-84	<.1 $\pm$ <.1	1.1 $\pm$ 0.6	0.8 $\pm$ 0.5	1.6 $\pm$ 0.7	3.5 $\pm$ 1.1
1984-85	0.0	3.1 $\pm$ 2.6	0.1 $\pm$ <.1	0.1 $\pm$ 0.1	3.3 $\pm$ 2.6
1985-86	0.0	0.8 $\pm$ 0.3	0.6 $\pm$ 0.4	4.6 $\pm$ 4.1	6.0 $\pm$ 4.1
<b>Sand seatrout</b>					
1982-83	0.2 $\pm$ 0.2	47.7 $\pm$ 18.5	5.7 $\pm$ 1.6	0.7 $\pm$ 0.4	54.3 $\pm$ 35.6
1983-84	0.2 $\pm$ 0.2	7.4 $\pm$ 4.2	<.1 $\pm$ <.1	0.0	7.7 $\pm$ 4.2
1984-85	1.6 $\pm$ 1.6	19.3 $\pm$ 16.6	0.6 $\pm$ 0.4	0.0	21.5 $\pm$ 16.7
1985-86	0.2 $\pm$ 0.1	7.7 $\pm$ 3.5	0.4 $\pm$ 0.2	0.0	8.2 $\pm$ 3.5

Table H.3. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spanish mackerel					
1982-83	1.2 ± 1.1	1.4 ± 0.6	0.5 ± 0.1	0.0	3.0 ± 1.7
1983-84	0.0	0.5 ± 0.4	0.4 ± 0.2	0.3 ± 0.3	1.2 ± 0.6
1984-85	0.0	0.1 ± <.1	<.1 ± <.1	2.6 ± 2.6	2.7 ± 2.6
1985-86	0.1 ± 0.1	0.3 ± 0.2	0.2 ± 0.1	<.1 ± <.1	0.5 ± 0.2
Spotted seatrout					
1982-83	1.3 ± 1.1	1.5 ± 0.3	0.3 ± 0.1	0.2 ± 0.2	3.4 ± 1.3
1983-84	0.0	3.1 ± 1.3	<.1 ± <.1	0.1 ± 0.1	3.1 ± 1.9
1984-85	0.3 ± 0.3	0.9 ± 0.4	<.1 ± <.1	0.2 ± 0.2	1.4 ± 0.5
1985-86	0.0	0.7 ± 0.3	0.1 ± 0.1	0.0	1.0 ± 0.3
Vermilion snapper					
1982-83 <sup>b</sup>					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Other species					
1982-83	2.1 ± 1.3	2.3 ± 0.7	3.3 ± 0.1	0.3 ± 0.1	8.0 ± 2.1
1983-84	0.1 ± 0.1	2.0	2.8	0.1	5.1
1984-85	<.1	3.2	2.1	0.3 ± 0.2	5.8
1985-86	0.2 ± 0.2	4.1	9.8	0.4 ± 0.4	14.6
All species combined <sup>a</sup>					
1982-83	14.5 ± 9.8	71.9 ± 26.6	16.5 ± 2.6	4.3 ± 1.7	107.3 ± 52.4
1983-84	0.5 ± 0.3	15.7 ± 5.4	13.9 ± 4.4	2.7 ± 0.9	32.7 ± 7.0
1984-85	1.9 ± 1.9	27.1 ± 17.2	9.9 ± 2.7	4.0 ± 2.8	42.8 ± 17.8
1985-86	1.0 ± 0.6	16.5 ± 4.6	17.2 ± 7.8	5.1 ± 4.1	39.8 ± 9.9

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table H.4. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the high-use season by species, day type and area (1982-1985).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker							
1982							
		Weekend	0.3 $\pm$ 0.2	0.2 $\pm$ 0.1	0.1 $\pm$ <.1	0.0	0.7 $\pm$ 0.3
		Weekday	0.0	0.0	0.0	0.3 $\pm$ 0.3	0.3 $\pm$ 0.3
1983							
		Weekend	0.1 $\pm$ 0.1	0.0	0.0	0.0	0.1 $\pm$ 0.1
		Weekday	0.0	0.1 $\pm$ 0.1	0.0	0.0	0.1 $\pm$ 0.1
1984							
		Weekend	0.0	0.1 $\pm$ 0.1	0.0	0.0	0.1 $\pm$ 0.1
		Weekday	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
1985							
		Weekend	0.1 $\pm$ 0.1	0.7 $\pm$ 0.7	0.0	0.0	0.8 $\pm$ 0.7
		Weekday	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
Atlantic sharpnose shark							
1982 <sup>b</sup>							
		Weekend					
		Weekday					
1983							
		Weekend	0.0	0.0	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1
		Weekday	0.0	<.1 $\pm$ <.1	0.4 $\pm$ 0.4	0.0	0.4 $\pm$ 0.4
1984							
		Weekend	0.0	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.2 $\pm$ 0.1
		Weekday	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
1985							
		Weekend	<.1 $\pm$ <.1	0.2 $\pm$ 0.1	0.8 $\pm$ 0.4	0.0	1.0 $\pm$ 0.4
		Weekday	0.0	<.1 $\pm$ <.1	0.8 $\pm$ 0.4	0.0	0.8 $\pm$ 0.4
Cobia							
1982							
		Weekend	0.0	0.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.2 $\pm$ 0.1
		Weekday	0.6 $\pm$ 0.6	0.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	0.7 $\pm$ 0.6
1983							
		Weekend	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1
		Weekday	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
1984							
		Weekend	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1
		Weekday	0.0	0.0	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1
1985							
		Weekend	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1
		Weekday	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1



Table H.4. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
King mackerel							
	1982						
		Weekend	1.0 ± 1.0	2.0 ± 0.4	1.5 ± 0.3	0.3 ± 0.2	4.9 ± 1.4
		Weekday	7.2 ± 7.2	0.5 ± 0.1	3.7 ± 0.7	<.1 ± <.1	11.5 ± 7.4
	1983						
		Weekend	0.0	0.7 ± 0.5	2.5 ± 1.5	0.1 ± 0.1	3.4 ± 1.6
		Weekday	0.0	0.4 ± 0.2	6.9 ± 3.2	0.4 ± 0.3	7.7 ± 3.2
	1984						
		Weekend	0.0	0.5 ± 0.2	2.7 ± 1.1	0.5 ± 0.3	3.6 ± 1.1
		Weekday	0.0	0.2 ± 0.1	3.6 ± 1.5	0.2 ± 0.2	4.0 ± 1.5
	1985						
		Weekend	0.3 ± 0.3	0.9 ± 0.3	1.9 ± 0.9	<.1 ± <.1	3.2 ± 1.0
		Weekday	0.1 ± 0.1	0.7 ± 0.4	2.7 ± 1.2	<.1 ± <.1	3.4 ± 1.3
Red drum							
	1982						
		Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
		Weekday	0.0	0.1 ± <.1	<.1 ± <.1	0.0	0.1 ± 0.1
	1983						
		Weekend	0.0	0.2 ± 0.2	0.0	0.0	0.2 ± 0.2
		Weekday	0.0	0.1 ± 0.1	<.1 ± <.1	0.0	0.1 ± 0.1
	1984						
		Weekend	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1
		Weekday	0.0	0.1 ± <.1	0.3 ± 0.3	<.1 ± <.1	0.3 ± 0.3
	1985						
		Weekend	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1
		Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
Red snapper							
	1982						
		Weekend	0.7 ± 0.7	13.7 ± 7.2	0.9 ± 0.3	0.5 ± 0.3	15.9 ± 13.4
		Weekday	0.0	0.7 ± 0.3	0.3 ± 0.1	1.8 ± 1.0	2.8 ± 1.2
	1983						
		Weekend	<.1 ± <.1	0.7 ± 0.6	0.6 ± 0.5	1.5 ± 0.7	2.8 ± 1.0
		Weekday	0.0	0.3 ± 0.3	0.2 ± 0.1	0.1 ± 0.1	0.6 ± 0.3
	1984						
		Weekend	0.0	0.1 ± 0.1	<.1 ± <.1	0.1 ± 0.1	0.2 ± 0.1
		Weekday	0.0	0.1 ± <.1	<.1 ± <.1	<.1 ± <.1	0.1 ± <.1
	1985						
		Weekend	0.0	0.2 ± 0.1	0.6 ± 0.4	0.3 ± 0.3	1.1 ± 0.5
		Weekday	0.0	0.2 ± 0.1	0.0	0.2 ± 0.2	0.4 ± 0.3

Table H.4. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
Sand seatrout						
	1982					
	Weekend	0.2 ± 0.2	36.7 ± 18.8	4.7 ± 1.6	0.2 ± 0.2	41.8 ± 35.0
	Weekday	0.0	5.4 ± 2.8	1.0 ± 0.5	0.4 ± 0.3	6.9 ± 5.4
	1983					
	Weekend	0.2 ± 0.2	0.4 ± 0.3	0.0	0.0	0.6 ± 0.4
	Weekday	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1
	1984					
	Weekend	0.0	1.3 ± 0.6	0.7 ± 0.6	0.0	1.9 ± 0.8
	Weekday	1.6 ± 1.6	0.1 ± 0.1	0.2 ± 0.1	0.0	1.8 ± 1.6
	1985					
	Weekend	0.2 ± 0.1	1.0 ± 0.8	0.3 ± 0.2	0.0	1.5 ± 0.8
	Weekday	0.0	1.4 ± 1.4	<.1 ± <.1	0.0	1.4 ± 1.4
Spanish mackerel						
	1982					
	Weekend	0.1 ± 0.1	1.3 ± 0.6	0.2 ± <.1	0.0	1.6 ± 1.2
	Weekday	1.1 ± 1.1	<.1 ± <.1	0.3 ± 0.1	0.0	1.5 ± 1.1
	1983					
	Weekend	0.0	0.5 ± 0.4	0.2 ± 0.2	0.3 ± 0.3	1.0 ± 0.5
	Weekday	0.0	<.1 ± <.1	0.2 ± 0.1	0.0	0.2 ± 0.1
	1984					
	Weekend	0.0	0.1 ± <.1	<.1 ± <.1	0.0	0.1 ± <.1
	Weekday	0.0	<.1 ± <.1	0.0	2.6 ± 2.6	2.6 ± 2.6
	1985					
	Weekend	0.1 ± 0.1	0.2 ± 0.2	<.1 ± <.1	<.1 ± <.1	0.4 ± 0.2
	Weekday	0.0	<.1 ± <.1	0.1 ± 0.1	0.0	0.2 ± 0.1
Spotted seatrout						
	1982					
	Weekend	1.3 ± 1.1	1.1 ± 0.3	0.1 ± <.1	0.2 ± 0.2	2.8 ± 1.3
	Weekday	0.0	0.2 ± 0.1	0.2 ± <.1	0.0	0.4 ± 0.2
	1983					
	Weekend	0.0	2.7 ± 1.8	0.0	0.1 ± 0.1	2.8 ± 1.8
	Weekday	0.0	0.4 ± 0.2	<.1 ± <.1	0.0	0.4 ± 0.2
	1984					
	Weekend	0.0	0.5 ± 0.3	0.0	0.0	0.5 ± 0.3
	Weekday	0.3 ± 0.3	0.4 ± 0.2	0.1 ± <.1	0.2 ± 0.2	0.9 ± 0.4
	1985					
	Weekend	0.0	0.6 ± 0.2	0.1 ± 0.1	0.0	0.7 ± 0.3
	Weekday	0.0	0.3 ± 0.1	0.0	0.0	0.3 ± 0.2

Table H.4. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
	Day type					
Vermilion snapper						
	1982 <sup>b</sup>					
	Weekend					
	Weekday					
	1983					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Other species						
	1982					
	Weekend	1.5 ± 1.1	1.7 ± 0.6	2.1 ± 0.5	0.1 ± 0.1	5.4 ± 1.9
	Weekday	0.6 ± 0.6	0.1 ± <.1	1.1 ± 0.2	0.2 ± 0.1	2.0 ± 0.7
	1983					
	Weekend	0.2	0.8	1.8 ± 0.9	<.1 ± <.1	2.8
	Weekday	0.0	0.8	1.0	<.1 ± <.1	1.8
	1984					
	Weekend	0.0	1.3	0.5	0.1 ± <.1	1.9
	Weekday	<.1	0.7	1.5	<.1 ± <.1	2.3
	1985					
	Weekend	0.3	1.3	9.2	0.1	10.9
	Weekday	0.0	2.0	0.6	0.4	3.0
All species combined <sup>a</sup>						
	1982					
	Weekend	5.1 ± 2.7	57.0 ± 27.4	9.7 ± 2.4	1.5 ± 0.1	73.3 ± 51.0
	Weekday	9.5 ± 9.5	7.2 ± 2.8	6.8 ± 1.1	2.7 ± 1.6	26.1 ± 11.2
	1983					
	Weekend	0.5 ± 0.3	6.0 ± 3.0	5.3 ± 2.6	2.0 ± 0.8	13.7 ± 4.0
	Weekday	0.0	2.1 ± 0.8	8.6 ± 3.6	0.5 ± 0.3	11.3 ± 3.7
	1984					
	Weekend	0.0	4.0 ± 1.3	4.1 ± 1.3	0.6 ± 0.3	8.7 ± 1.9
	Weekday	1.9 ± 1.9	1.5 ± 0.6	5.7 ± 2.0	3.1 ± 2.8	12.2 ± 3.9
	1985					
	Weekend	1.0 ± 0.6	5.2 ± 1.7	13.0 ± 7.6	0.4 ± 0.3	19.6 ± 7.9
	Weekday	0.1 ± 0.1	4.7 ± 2.5	4.1 ± 1.4	0.6 ± 0.4	9.6 ± 2.9

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table H.5. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the low-use season by species, day type and area (1982-1986).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker							
1982-83							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.1 $\pm$ <.1	0.0	0.0	0.1 $\pm$ 0.1
1983-84							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1984-85							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1985-86							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark							
1982-83 <sup>b</sup>							
		Weekend					
		Weekday					
1983-84							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1984-85							
		Weekend	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
		Weekday	0.0	0.0	0.0	0.0	0.0
1985							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
Cobia							
1982-83							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1983-84							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1984-85							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1985-86							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0

Table H.5. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
King mackerel							
1982-83							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1983-84							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1984-85							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1985-86							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
Red drum							
1982-83							
		Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
		Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
1983-84							
		Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
		Weekday	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1
1984-85							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1985-86							
		Weekend	0.0	0.1 ± <.1	0.0	0.0	0.1 ± <.1
		Weekday	0.0	0.0	0.0	0.0	0.0
Red snapper							
1982-83							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	1.3 ± 0.5	0.0	0.1 ± 0.1	1.5 ± 1.1
1983-84							
		Weekend	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1
		Weekday	0.0	0.0	0.0	0.0	0.0
1984-85							
		Weekend	0.0	2.9 ± 2.6	<.1 ± <.1	0.0	2.9 ± 2.6
		Weekday	0.0	0.0	0.0	0.0	0.0
1985-86							
		Weekend	0.0	0.3 ± 0.2	0.0	4.0 ± 4.0	4.4 ± 4.0
		Weekday	0.0	0.2 ± 0.2	0.0	0.0	0.2 ± 0.2

Table H.5. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Sand seatrout							
1982-83							
	Weekend		0.0	1.1 ± 0.5	0.0	0.0	1.1 ± 1.1
	Weekday		0.0	4.5 ± 1.7	0.0	0.0	4.5 ± 3.5
1983-84							
	Weekend		0.0	7.0 ± 4.2	0.0	0.0	7.0 ± 4.2
	Weekday		0.0	0.0	0.0	0.0	0.0
1984-85							
	Weekend		0.0	17.5 ± 16.6	0.0	0.0	17.5 ± 16.6
	Weekday		0.0	0.2 ± 0.2	0.0	0.0	0.2 ± 0.2
1985-86							
	Weekend		0.0	4.2 ± 2.9	0.0	0.0	4.2 ± 2.9
	Weekday		0.0	1.1 ± 1.1	0.0	0.0	1.1 ± 1.1
Spanish mackerel							
1982-83							
	Weekend		0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday		0.0	0.0	0.0	0.0	0.0
1983-84							
	Weekend		0.0	0.0	0.0	0.0	0.0
	Weekday		0.0	0.0	0.0	0.0	0.0
1984-85							
	Weekend		0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday		0.0	0.0	0.0	0.0	0.0
1985-86							
	Weekend		0.0	0.0	0.0	0.0	0.0
	Weekday		0.0	0.0	0.0	0.0	0.0
Spotted seatrout							
1982-83							
	Weekend		0.0	0.1 ± <.1	0.0	0.0	0.1 ± 0.1
	Weekday		0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
1983-84							
	Weekend		0.0	0.0	0.0	0.0	0.0
	Weekday		0.0	0.0	0.0	0.0	0.0
1984-85							
	Weekend		0.0	0.0	0.0	0.0	0.0
	Weekday		0.0	0.0	0.0	0.0	0.0
1985-86							
	Weekend		0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday		0.0	0.0	0.0	0.0	0.0

Table H.5. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Vermilion snapper					
1982-83 <sup>b</sup>					
Weekend					
Weekday					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Other species					
1982-83					
Weekend	0.0	0.0	0.1 ± <.1	0.0	0.1 ± 0.1
Weekday	0.0	0.4 ± 0.2	0.0	0.0	0.4 ± 0.4
1983-84					
Weekend	0.0	0.4	0.0	0.1	0.5
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.9	0.0	0.2 ± 0.2	1.8
Weekday	0.0	0.1	0.0	0.1 ± 0.1	0.2
1985-86					
Weekend	0.0	0.6	0.0	0.0	0.6
Weekday	0.0	<.1	0.0	0.0	<.1
All species combined <sup>a</sup>					
1982-83					
Weekend	0.0	1.2 ± 0.5	0.1 ± <.1	0.0	1.4 ± 1.1
Weekday	0.0	6.4 ± 2.5	0.0	0.1 ± 0.1	6.6 ± 5.1
1983-84					
Weekend	0.0	7.6 ± 4.4	0.0	0.1 ± 0.1	7.7 ± 4.4
Weekday	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1
1984-85					
Weekend	0.0	21.3 ± 17.2	<.1 ± <.1	0.2 ± 0.2	21.5 ± 17.2
Weekday	0.0	0.3 ± 0.2	0.0	0.1 ± 0.1	0.4 ± 0.2
1985-86					
Weekend	0.0	5.2 ± 3.3	0.0	4.0 ± 4.0	9.3 ± 5.2
Weekday	0.0	1.3 ± 1.3	0.0	0.0	1.3 ± 1.3

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table H.6. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in the TTS by species and area (1982-1986).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
<b>Atlantic croaker</b>					
1982-83	0.01 $\pm$ 0.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.02	0.01 $\pm$ <.01
1983-84	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1984-85	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1985-86	<.01 $\pm$ <.01	0.02 $\pm$ 0.02	0.00	0.00	<.01 $\pm$ <.01
<b>Atlantic sharpnose shark</b>					
1982-83 <sup>b</sup>					
1983-84	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1984-85	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1985-86	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
<b>Cobia</b>					
1982-83	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1983-84	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1984-85	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86	<.01 $\pm$ <.01	0.00	0.00	0.00	<.01 $\pm$ <.01
<b>King mackerel</b>					
1982-83	0.20 $\pm$ 0.19	0.05 $\pm$ 0.02	0.06 $\pm$ 0.02	0.03 $\pm$ 0.02	0.09 $\pm$ 0.04
1983-1984	0.00	0.05 $\pm$ 0.03	0.06 $\pm$ 0.03	0.06 $\pm$ 0.04	0.04 $\pm$ 0.02
1984-85	0.00	0.02 $\pm$ 0.01	0.09 $\pm$ 0.03	0.03 $\pm$ 0.02	0.06 $\pm$ 0.02
1985-86	0.03 $\pm$ 0.02	0.04 $\pm$ 0.02	0.05 $\pm$ 0.02	<.01 $\pm$ <.01	0.04 $\pm$ 0.01
<b>Red drum</b>					
1982-83	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1983-84	0.00	0.02 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1984-85	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
<b>Red snapper</b>					
1982-83	0.02 $\pm$ 0.02	0.33 $\pm$ 0.23	0.01 $\pm$ 0.01	0.20 $\pm$ 0.10	0.11 $\pm$ 0.07
1983-84	<.01 $\pm$ <.01	0.05 $\pm$ 0.03	<.01 $\pm$ <.01	0.18 $\pm$ 0.09	0.01 $\pm$ 0.01
1984-85	0.00	0.08 $\pm$ 0.07	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.02
1985-86	0.00	0.02 $\pm$ 0.01	0.01 $\pm$ <.01	0.18 $\pm$ 0.16	0.03 $\pm$ 0.02
<b>Sand seatrout</b>					
1982-83	<.01 $\pm$ <.01	1.00 $\pm$ 0.64	0.07 $\pm$ 0.04	0.06 $\pm$ 0.04	0.29 $\pm$ 0.19
1983-84	<.01 $\pm$ <.01	0.36 $\pm$ 0.22	<.01 $\pm$ <.01	0.00	0.02 $\pm$ 0.02
1984-85	0.20 $\pm$ 0.20	0.49 $\pm$ 0.43	<.01 $\pm$ <.01	0.00	0.14 $\pm$ 0.11
1985-86	0.01 $\pm$ 0.01	0.22 $\pm$ 0.10	<.01 $\pm$ <.01	0.00	0.05 $\pm$ 0.02



Table H.6. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spanish mackerel					
1982-83	0.03 ± 0.03	0.03 ± 0.02	0.01 ± <.01	0.00	0.02 ± 0.01
1983-84	0.00	0.02 ± 0.02	<.01 ± <.01	0.03 ± 0.03	<.01 ± <.01
1984-85	0.00	<.01 ± <.01	<.01 ± <.01	0.12 ± 0.12	0.02 ± 0.02
1985-86	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
Spotted seatrout					
1982-83	0.03 ± 0.03	0.03 ± 0.02	<.01 ± <.01	0.02 ± 0.02	0.02 ± 0.01
1983-84	0.00	0.15 ± 0.10	<.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01
1984-85	<.01 ± <.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01
1985-86	0.00	0.02 ± 0.01	<.01 ± <.01	0.00	0.01 ± <.01
Vermilion snapper					
1982-83 <sup>b</sup>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85	0.00	0.00	0.00	0.00	0.00
1985-86	0.00	0.00	0.00	0.00	0.00
Other species					
1982-83	0.05 ± 0.04	0.05 ± 0.02	0.04 ± 0.01	0.03 ± 0.01	0.04 ± 0.01
1983-84	<.01 ± <.01	0.10	0.02 ± 0.01	0.02	0.02
1984-85	<.01 ± <.01	0.08	0.03	0.02 ± 0.01	0.04
1985-86	0.02 ± 0.01	0.12	0.01	0.02 ± 0.01	0.08
All species combined <sup>a</sup>					
1982-83	0.35 ± 0.30	1.51 ± 0.92	0.19 ± 0.06	0.36 ± 0.17	0.57 ± 0.30
1983-84	<.01 ± <.01	0.77 ± 0.32	0.10 ± 0.04	0.29 ± 0.12	0.10 ± 0.05
1984-85	0.24 ± 0.24	0.70 ± 0.46	0.14 ± 0.04	0.18 ± 0.14	0.30 ± 0.13
1985-86	0.00	0.47 ± 0.15	0.17 ± 0.08	0.20 ± 0.17	0.22 ± 0.06

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table H.7. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the high-use season by species, day type and area (1982-1985).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker							
	1982						
		Weekend	0.03 $\pm$ 0.02	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
		Weekday	0.00	0.00	0.00	0.07 $\pm$ 0.07	<.01 $\pm$ <.01
	1983						
		Weekend	0.05 $\pm$ 0.05	0.00	0.00	0.00	<.01 $\pm$ <.01
		Weekday	0.00	0.02 $\pm$ 0.02	0.00	0.00	<.01 $\pm$ <.01
	1984						
		Weekend	0.00	0.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
		Weekday	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1985						
		Weekend	0.01 $\pm$ 0.01	0.04 $\pm$ 0.04	0.00	0.00	0.01 $\pm$ 0.01
		Weekday	0.00	0.01 $\pm$ 0.01	0.00	0.00	<.01 $\pm$ <.01
Atlantic sharpnose shark							
	1982 <sup>b</sup>						
		Weekend					
		Weekday					
	1983						
		Weekend	0.00	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
		Weekday	0.00	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01
	1984						
		Weekend	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
		Weekday	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1985						
		Weekend	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
		Weekday	0.00	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.00	0.01 $\pm$ 0.01
Cobia							
	1982						
		Weekend	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
		Weekday	0.02 $\pm$ 0.02	0.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.01 $\pm$ 0.01
	1983						
		Weekend	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
		Weekday	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1984						
		Weekend	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
		Weekday	0.00	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1985						
		Weekend	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
		Weekday	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01

Table H.7. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
King mackerel						
1982						
Weekend		0.08 ± 0.08	0.06 ± 0.03	0.03 ± 0.01	0.04 ± 0.03	0.05 ± 0.02
Weekday		0.24 ± 0.24	0.05 ± 0.02	0.10 ± 0.04	0.01 ± 0.01	0.14 ± 0.10
1983						
Weekend		0.00	0.05 ± 0.04	0.04 ± 0.02	0.02 ± 0.02	0.04 ± 0.02
Weekday		0.00	0.08 ± 0.05	0.15 ± 0.08	0.10 ± 0.09	0.04 ± 0.03
1984						
Weekend		0.00	0.03 ± 0.02	0.07 ± 0.04	0.07 ± 0.04	0.06 ± 0.02
Weekday		0.00	0.04 ± 0.02	0.10 ± 0.05	0.02 ± 0.02	0.08 ± 0.04
1985						
Weekend		0.03 ± 0.03	0.05 ± 0.02	0.03 ± 0.02	0.01 ± 0.01	0.03 ± 0.01
Weekday		0.02 ± 0.02	0.07 ± 0.04	0.08 ± 0.04	<.01 ± <.01	0.05 ± 0.02
Red drum						
1982						
Weekend		0.00	<.01 ± <.01	0.00	0.00	0.00
Weekday		0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
1983						
Weekend		0.00	0.02 ± 0.01	0.00	0.00	<.01 ± <.01
Weekday		0.00	0.03 ± 0.02	<.01 ± <.01	0.00	<.01 ± <.01
1984						
Weekend		0.00	0.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday		0.00	0.02 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01
1985						
Weekend		0.00	0.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday		0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
Red snapper						
1982						
Weekend		0.06 ± 0.06	0.38 ± 0.29	0.02 ± 0.01	0.07 ± 0.04	0.16 ± 0.13
Weekday		0.00	0.07 ± 0.05	0.01 ± 0.01	0.46 ± 0.32	0.03 ± 0.02
1983						
Weekend		0.02 ± 0.02	0.05 ± 0.04	0.01 ± 0.01	0.35 ± 0.20	0.03 ± 0.02
Weekday		0.00	0.06 ± 0.06	<.01 ± <.01	0.03 ± 0.02	<.01 ± <.01
1984						
Weekend		0.00	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	<.01 ± <.01
Weekday		0.00	0.02 ± 0.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1985						
Weekend		0.00	0.01 ± <.01	0.01 ± 0.01	0.08 ± 0.08	0.01 ± 0.01
Weekday		0.00	0.02 ± 0.02	0.00	0.01 ± 0.01	0.01 ± <.01

Table H.7. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
<b>Sand seatrout</b>						
	1982					
	Weekend	0.01 ± 0.01	1.02 ± 0.75	0.10 ± 0.06	0.03 ± 0.12	0.41 ± 0.35
	Weekday	0.00	0.54 ± 0.54	0.03 ± 0.02	0.03 ± 0.09	0.08 ± 0.07
	1983					
	Weekend	0.15 ± 0.15	0.03 ± 0.02	0.00	0.00	0.01 ± <.01
	Weekday	0.00	0.00	<.01 ± <.01	0.00	<.01 ± <.01
	1984					
	Weekend	0.00	0.08 ± 0.04	0.02 ± 0.02	0.00	0.03 ± 0.01
	Weekday	0.50 ± 0.50	0.03 ± 0.02	<.01 ± <.01	0.00	0.03 ± 0.03
	1985					
	Weekend	0.02 ± 0.02	0.05 ± 0.04	<.01 ± <.01	0.00	0.02 ± 0.01
	Weekday	0.00	0.15 ± 0.15	<.01 ± <.01	0.00	0.02 ± 0.02
<b>Spanish mackerel</b>						
	1982					
	Weekend	0.01 ± <.01	0.04 ± 0.03	<.01 ± <.01	0.00	0.02 ± 0.01
	Weekday	0.04 ± 0.04	<.01 ± <.01	0.01 ± <.01	0.00	0.02 ± 0.02
	1983					
	Weekend	0.00	0.03 ± 0.03	<.01 ± <.01	0.06 ± 0.06	0.01 ± 0.01
	Weekday	0.00	0.01 ± 0.01	<.01 ± <.01	0.00	<.01 ± <.01
	1984					
	Weekend	0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	0.00	0.24 ± 0.24	0.05 ± 0.05
	1985					
	Weekend	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
<b>Spotted seatrout</b>						
	1982					
	Weekend	0.11 ± 0.09	0.03 ± 0.03	<.01 ± <.01	0.03 ± 0.03	0.03 ± 0.01
	Weekday	0.00	0.02 ± 0.02	0.01 ± <.01	0.00	0.01 ± <.01
	1983					
	Weekend	0.00	0.19 ± 0.14	0.00	0.02 ± 0.02	0.03 ± 0.02
	Weekday	0.00	0.08 ± 0.06	<.01 ± <.01	0.00	<.01 ± <.01
	1984					
	Weekend	0.00	0.03 ± 0.02	0.00	0.00	0.01 ± <.01
	Weekday	0.10 ± 0.10	0.10 ± 0.06	<.01 ± <.01	0.02 ± 0.02	0.02 ± 0.01
	1985					
	Weekend	0.00	0.03 ± 0.01	<.01 ± <.01	0.00	0.01 ± <.01
	Weekday	0.00	0.03 ± 0.01	0.00	0.00	<.01 ± <.01

Table H.7. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper							
	1982 <sup>b</sup>						
		Weekend					
		Weekday					
	1983						
		Weekend	0.00	0.00	0.00	0.00	0.00
		Weekday	0.00	0.00	0.00	0.00	0.00
	1984						
		Weekend	0.00	0.00	0.00	0.00	0.00
		Weekday	0.00	0.00	0.00	0.00	0.00
	1985						
		Weekend	0.00	0.00	0.00	0.00	0.00
		Weekday	0.00	0.00	0.00	0.00	0.00
Other species							
	1982						
		Weekend	0.12 ± 0.10	0.05 ± 0.03	0.05 ± 0.02	0.02 ± 0.01	0.05 ± 0.02
		Weekday	0.02 ± 0.02	0.01 ± 0.01	0.03 ± 0.01	0.04 ± 0.03	0.72 ± 0.51
	1983						
		Weekend	0.12	0.06	0.02 ± 0.02	0.01 ± <.01	0.03
		Weekday	0.00	0.20	0.02 ± 0.01	<.01 ± <.01	0.01
	1984						
		Weekend	0.00	0.08	0.02 ± 0.01	0.01 ± 0.01	0.03
		Weekday	0.01	0.20	0.04	<.01 ± <.01	0.04
	1985						
		Weekend	0.03	0.07	0.14	0.01	0.11
		Weekday	0.00	0.21	0.02	0.03	0.05
All species combined <sup>a</sup>							
	1982						
		Weekend	0.42 ± 0.27	1.58 ± 1.11	0.21 ± 0.10	0.20 ± 0.11	0.72 ± 0.51
		Weekday	0.32 ± 0.32	0.71 ± 0.56	0.18 ± 0.07	0.70 ± 0.48	0.32 ± 0.18
	1983						
		Weekend	0.34 ± 0.26	0.43 ± 0.25	0.07 ± 0.04	0.47 ± 0.24	0.15 ± 0.07
		Weekday	0.00	0.49 ± 0.24	0.19 ± 0.10	0.13 ± 0.10	0.06 ± 0.04
	1984						
		Weekend	0.00	0.24 ± 0.10	0.11 ± 0.05	0.09 ± 0.05	0.14 ± 0.04
		Weekday	0.61 ± 0.61	0.41 ± 0.18	0.17 ± 0.07	0.28 ± 0.26	0.23 ± 0.09
	1985						
		Weekend	0.10 ± 0.08	0.27 ± 0.11	0.20 ± 0.12	0.12 ± 0.09	0.20 ± 0.09
		Weekday	0.02 ± 0.02	0.49 ± 0.29	0.11 ± 0.05	0.05 ± 0.04	0.15 ± 0.06

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table H.8. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the low-use season by species, day type and area (1982-1986). Blank = no fishermen interviewed.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Year					
Day type					
Atlantic croaker					
1982-83					
Weekend		0.00	0.00		0.00
Weekday		0.05 $\pm$ 0.02	0.00	0.00	0.03 $\pm$ 0.03
1983-84					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1984-85					
Weekend		0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1985-86					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00			0.00
Atlantic sharpnose shark					
1982-83 <sup>b</sup>					
Weekend					
Weekday					
1983-84					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1984-85					
Weekend		<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
Weekday		0.00	0.00	0.00	0.00
1985-86					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00			0.00
Cobia					
1982-83					
Weekend		0.00	0.00		0.00
Weekday		0.00	0.00	0.00	0.00
1983-84					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1984-85					
Weekend		0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1985-86					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00			0.00

Table H.8. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
King mackerel						
1982-83						
		Weekend		0.00	0.00	0.00
		Weekday		0.00	0.00	0.00
1983-84						
		Weekend		0.00	0.00	0.00
		Weekday		0.00	0.00	0.00
1984-85						
		Weekend		0.00	0.00	0.00
		Weekday		0.00	0.00	0.00
1985-86						
		Weekend	0.00	0.00	0.00	0.00
		Weekday		0.00		0.00
Red drum						
1982-83						
		Weekend		0.08 ± 0.04	0.00	0.01 ± 0.01
		Weekday		0.01 ± <.01	0.00	0.01 ± 0.01
1983-84						
		Weekend		0.02 ± 0.02	0.00	0.01 ± 0.01
		Weekday		0.00	0.06 ± 0.06	<.01 ± <.01
1984-85						
		Weekend		0.00	0.00	0.00
		Weekday		0.00	0.00	0.00
1985						
		Weekend	0.00	0.01 ± 0.01	0.00	<.01 ± <.01
		Weekday		0.00		0.00
Red snapper						
1982-83						
		Weekend		0.00	0.00	0.00
		Weekday		0.65 ± 0.03	0.00	0.28 ± 0.28
1983-84						
		Weekend		0.05 ± 0.04	0.00	0.02 ± 0.02
		Weekday		0.00	0.00	0.00
1984-85						
		Weekend		0.17 ± 0.15	0.16 ± 0.16	0.15 ± 0.13
		Weekday		0.00	0.00	0.00
1985-86						
		Weekend	0.00	0.05 ± 0.04	0.00	0.29 ± 0.28
		Weekday		0.44 ± 0.44		0.44 ± 0.44

Table H.8. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Sand seatrout					
1982-83					
Weekend		2.75 ± 1.20	0.00		0.49 ± 0.49
Weekday		2.25 ± 1.00	0.00	0.00	1.52 ± 1.29
1983-84		—			
Weekend		3.30 ± 2.43	0.00	0.00	1.20 ± 0.93
Weekday			0.00	0.00	0.00
1984-85					
Weekend		1.02 ± 0.99	0.00	0.00	0.88 ± 0.84
Weekday		0.92 ± 0.92	0.00	0.00	0.09 ± 0.09
1985-86					
Weekend	0.00	0.70 ± 0.54	0.00	0.00	0.28 ± 0.23
Weekday		2.92 ± 2.92			2.92 ± 2.92
Spanish mackerel					
1982-83					
Weekend		0.03 ± 0.01	0.00		<.01 ± <.01
Weekday		0.00	0.00	0.00	0.00
1983-84					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1984-85					
Weekend		<.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday		0.00	0.00	0.00	0.00
1985-86					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00			0.00
Spotted seatrout					
1982-83					
Weekend		0.25 ± 0.10	0.00		0.05 ± 0.05
Weekday		0.02 ± <.01	0.00	0.00	0.01 ± 0.01
1983-84					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1984-85					
Weekend		0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1985-86					
Weekend	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday		0.00			0.00



Table H.8. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper						
	1982-83 <sup>b</sup>					
	Weekend					
	Weekday					
	1983-84					
	Weekend		0.00	0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
	1984-85					
	Weekend		0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
	1985-86					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00			0.00
Other species						
	1982-83					
	Weekend		0.00	0.06 ± 0.04		0.06 ± 0.06
	Weekday		0.20 ± 0.10	0.00	0.00	0.14 ± 0.14
	1983-84					
	Weekend		0.19	0.00	0.30	0.09
	Weekday			0.00	0.00	0.00
	1984-85					
	Weekend		0.05	0.00	0.06 ± 0.06	0.05
	Weekday		0.38	0.00	0.04 ± 0.04	0.06
	1985-86					
	Weekend	0.00	0.11	0.00	0.00	0.04
	Weekday		0.14			0.14
All species combined <sup>a</sup>						
	1982-83					
	Weekend		3.00 ± 1.30	0.06 ± 0.04		0.62 ± 0.58
	Weekday		3.20 ± 1.50	0.00	0.28 ± 0.28	2.20 ± 1.82
	1983-84					
	Weekend		3.57 ± 2.60	0.00	0.30 ± 0.30	1.32 ± 1.00
	Weekday			0.00	0.06 ± 0.06	<.01 ± <.01
	1984-85					
	Weekend		1.24 ± 0.05	0.16 ± 0.16	0.06 ± 0.06	1.08 ± 0.90
	Weekday		1.30 ± 1.21	0.00	0.04 ± 0.04	0.15 ± 0.12
	1985-86					
	Weekend	0.00	0.88 ± 0.63	0.00	0.50 ± 0.50	0.62 ± 0.46
	Weekday		3.50 ± 3.50			3.50 ± 3.50

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table H.9. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in the TTS by species and area (1982-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
<b>Atlantic croaker</b>					
1982-83		0.47 $\pm$ 0.11			0.47 $\pm$ 0.21
1983-84	0.10	0.44			0.28 $\pm$ 0.28
1984-85	0.20	0.34 $\pm$ 0.05	0.11		0.32 $\pm$ 0.07
1985-86	0.16	0.19 $\pm$ 0.06			0.19 $\pm$ 0.07
<b>Atlantic sharpnose shark</b>					
1982-83 <sup>a</sup>					
1983-84		7.53	5.89 $\pm$ 0.10		5.94 $\pm$ 0.32
1984-85		1.82 $\pm$ 1.23	1.51 $\pm$ 0.09		1.54 $\pm$ 0.21
1985-86	4.79	4.85 $\pm$ 1.09	5.70 $\pm$ 0.48		5.58 $\pm$ 0.62
<b>Cobia</b>					
1982-83		10.78 $\pm$ 3.13	9.01 $\pm$ 1.60	4.55	9.29 $\pm$ 1.56
1983-84		11.81 $\pm$ 1.32	19.16	3.92	15.00 $\pm$ 10.64
1984-85		9.30 $\pm$ 1.39	9.85 $\pm$ 1.28		9.80 $\pm$ 1.29
1985-86	3.74	7.17 $\pm$ 0.73	4.83 $\pm$ 4.06	16.8	6.17 $\pm$ 4.20
<b>King mackerel</b>					
1982-83	5.63	6.82 $\pm$ 1.25	6.39 $\pm$ 1.06	4.42 $\pm$ 1.61	6.19 $\pm$ 0.88
1983-84		9.70 $\pm$ 0.72	10.14 $\pm$ 0.61	11.28 $\pm$ 1.15	10.15 $\pm$ 0.64
1984-85		9.62 $\pm$ 0.61	8.42 $\pm$ 0.53	5.95 $\pm$ 0.56	8.32 $\pm$ 0.54
1985-86	9.16 $\pm$ 0.04	7.82 $\pm$ 0.54	7.61 $\pm$ 0.34	7.53	7.76 $\pm$ 0.44
<b>Red drum</b>					
1982-83		1.38 $\pm$ 0.15	1.20		1.36 $\pm$ 0.14
1983-84		2.26 $\pm$ 0.27		2.25	2.26 $\pm$ 0.44
1984-85		2.45 $\pm$ 0.09		4.10	2.52 $\pm$ 0.26
1985-86		1.77 $\pm$ 0.26			1.77 $\pm$ 0.26
<b>Red snapper</b>					
1982-83		0.35 $\pm$ 0.06	0.33 $\pm$ 0.19	0.64 $\pm$ 0.50	0.40 $\pm$ 0.15
1983-84		0.45 $\pm$ 0.03	0.27 $\pm$ 0.08	0.48 $\pm$ 0.07	0.43 $\pm$ 0.06
1984-85		0.50 $\pm$ 0.07	0.09 $\pm$ 0.03	0.22 $\pm$ 0.07	0.48 $\pm$ 0.07
1985-86		0.35 $\pm$ 0.07	0.35 $\pm$ 0.09	0.94 $\pm$ 0.43	0.81 $\pm$ 0.35
<b>Sand seatrout</b>					
1982-83	0.45	0.38 $\pm$ 0.33	0.26 $\pm$ 0.05	0.40	0.35 $\pm$ 0.21
1983-84	0.11	0.44 $\pm$ 0.02	0.34		0.43 $\pm$ 0.03
1984-85	0.20	0.46 $\pm$ 0.02	0.26 $\pm$ 0.04		0.44 $\pm$ 0.04
1985-86	0.15 $\pm$ 0.07	0.41 $\pm$ 0.03	0.35 $\pm$ 0.04		0.40 $\pm$ 0.03

Table H.9. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Day type						
Spanish mackerel						
1982-83	1.05	0.67 ± 0.35	0.81 ± 0.07			0.67 ± 0.18
1983-84		1.02 ± 0.06	1.20 ± 0.09			1.10 ± 0.07
1984-85		1.23 ± 0.27	1.07		0.44	0.47 ± 0.44
1985-86	1.91 ± 0.75	1.32 ± 0.32	1.03 ± 0.13		1.90	1.33 ± 0.35
Spotted seatrout						
1982-83	0.76	0.69 ± 0.39	0.80 ± 0.52		0.59	0.69 ± 0.29
1983-84		0.82 ± 0.12	1.26		1.38	0.83 ± 0.15
1984-85	0.84 ± 0.11	1.15 ± 0.07	0.99 ± 0.06		0.81	1.03 ± 0.16
1985-86		0.91 ± 0.08				0.91 ± 0.08
Vermilion snapper						
1982-83 <sup>a</sup>						
1983-84						
1984-85						
1985-86						
All species combined <sup>b</sup>						
1982-83	2.00 ± 7.90	0.79 ± 1.77	2.77 ± 2.28		1.40 ± 1.10	1.50 ± 1.47
1983-84	0.10 ± 0.10	1.82 ± 0.51	6.83 ± 1.19		1.54 ± 0.82	3.90 ± 0.82
1984-85	0.46 ± 0.09	2.41 ± 0.54	6.23 ± 0.87		4.14 ± 1.01	3.43 ± 0.65
1985-86	4.51 ± 2.03	2.47 ± 0.57	5.67 ± 0.39		2.02 ± 0.95	3.85 ± 0.58

<sup>a</sup>Mean weights are not available for this species for this year.

<sup>b</sup>Includes "other" species.

Table H.10. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the high-use season by species, day type and area (1982-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
	1982					
	Weekend		0.54 $\pm$ 0.14			0.54 $\pm$ 0.14
	Weekday					
	1983					
	Weekend	0.10				0.10
	Weekday		0.44			0.44
	1984					
	Weekend		0.33 $\pm$ 0.07			0.33 $\pm$ 0.07
	Weekday	0.20	0.39 $\pm$ 0.02	0.11		0.28 $\pm$ 0.08
	1985					
	Weekend	0.16	0.12 $\pm$ 0.07			0.13 $\pm$ 0.07
	Weekday		0.25			0.25
Atlantic sharpnose shark						
	1982 <sup>a</sup>					
	Weekend					
	Weekday					
	1983					
	Weekend			5.96 $\pm$ 0.17		5.96 $\pm$ 0.17
	Weekday		7.53	5.75		5.82 $\pm$ 5.82
	1984					
	Weekend		1.82 $\pm$ 1.23	1.46		1.48 $\pm$ 1.44
	Weekday			2.02		2.02
	1985					
	Weekend	4.79	4.87 $\pm$ 1.26	5.57 $\pm$ 0.67		5.42 $\pm$ 0.89
	Weekday		4.64 $\pm$ 1.62	5.91 $\pm$ 0.72		5.84 $\pm$ 0.77
Cobia						
	1982					
	Weekend		18.18 $\pm$ 1.29	9.90	4.55	12.70 $\pm$ 3.40
	Weekday		6.74 $\pm$ 0.73	8.83 $\pm$ 1.94		7.77 $\pm$ 1.36
	1983					
	Weekend		15.16		3.92	9.85 $\pm$ 9.85
	Weekday		10.69 $\pm$ 0.23	19.16		13.52 $\pm$ 6.54
	1984					
	Weekend		9.30 $\pm$ 1.39	11.13		10.25 $\pm$ 6.45
	Weekday			8.57		8.57
	1985					
	Weekend	3.74		4.83 $\pm$ 4.06	16.80	5.81 $\pm$ 5.47
	Weekday		7.17 $\pm$ 0.73			7.17 $\pm$ 0.73

Table H.10. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
King mackerel							
1982							
		Weekend	5.63	6.65 ± 1.94	7.24 ± 1.06	4.42 ± 1.61	6.63 ± 0.90
		Weekday		7.43 ± 1.52	5.92 ± 1.19		5.85 ± 1.21
1983							
		Weekend		9.81 ± 0.93	8.60 ± 0.44	7.07 ± 1.39	8.82 ± 0.57
		Weekday		9.59 ± 1.18	10.64 ± 0.72	12.07 ± 0.44	10.67 ± 0.73
1984							
		Weekend		9.11 ± 0.53	7.78 ± 0.53	5.89 ± 0.65	7.73 ± 0.54
		Weekday		13.27 ± 2.74	9.34 ± 0.64	6.48	9.31 ± 1.08
1985							
		Weekend	9.16 ± 0.04	7.95 ± 0.72	7.60 ± 0.44	7.53	7.86 ± 0.54
		Weekday		7.38 ± 0.24	7.63 ± 0.59		7.58 ± 0.52
Red drum							
1982							
		Weekend		1.47 ± 0.08			1.47 ± 0.08
		Weekday		1.21	1.20		1.21 ± 0.01
1983							
		Weekend		2.06 ± 0.41			2.06 ± 0.41
		Weekday		2.41 ± 0.41			2.41 ± 0.41
1984							
		Weekend		2.36 ± 0.06			2.36 ± 0.06
		Weekday		2.63 ± 0.20		4.10	2.80 ± 0.64
1985							
		Weekend		0.51 ± 0.11			1.51 ± 0.11
		Weekday		1.18			1.18
Red snapper							
1982							
		Weekend		0.30 ± 0.13	0.33 ± 0.19	0.52	0.34 ± 0.16
		Weekday		0.35 ± 0.23		0.53	0.45 ± 0.24
1983							
		Weekend		0.44 ± 0.01	0.16	0.48 ± 0.07	0.40 ± 0.04
		Weekday			0.31 ± 0.12	0.48	0.38 ± 0.26
1984							
		Weekend		0.63 ± 0.16	0.12 ± 0.01	0.22 ± 0.07	0.40 ± 0.11
		Weekday		0.40 ± 0.11	0.12	0.22	0.30 ± 0.13
1985							
		Weekend		0.49 ± 0.19	0.35 ± 0.09	0.39 ± 0.11	0.38 ± 0.11
		Weekday		0.27 ± 0.05		1.74	1.02 ± 0.92

Table H.10. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Sand seatrout							
	1982						
	Weekend	0.45	0.34 ± 0.08	0.28 ± 0.06			0.33 ± 0.07
	Weekday		0.37 ± 0.05	0.31 ± 0.02	0.40		0.27 ± 0.16
	1983						
	Weekend	0.11	0.48 ± 0.08				0.35 ± 0.09
	Weekday			0.34			0.34
	1984						
	Weekend		0.45 ± 0.03	0.21 ± 0.01			0.37 ± 0.02
	Weekday	0.20	0.63	0.37 ± 0.06			0.24 ± 0.22
	1985						
	Weekend	0.15 ± 0.07	0.31 ± 0.13	0.35 ± 0.05			0.30 ± 0.11
	Weekday		0.36 ± 0.00	0.31			0.36 ± 0.01
Spanish mackerel							
	1982						
	Weekend	1.05	0.66	0.46 ± 0.06			0.56 ± 0.88
	Weekday		1.35	1.05 ± 0.11			0.88 ± 0.43
	1983						
	Weekend		1.07 ± 0.04	1.07 ± 0.20			1.07 ± 0.10
	Weekday		0.92 ± 0.16	1.27 ± 0.04			1.19 ± 0.06
	1984						
	Weekend		1.30	1.07			1.25 ± 0.47
	Weekday		1.54		0.44		0.44 ± 0.44
	1985						
	Weekend	1.91 ± 0.75	1.32 ± 0.42	1.21 ± 0.24	1.90		1.47 ± 0.50
	Weekday		1.31 ± 0.24	0.91 ± 0.10			0.98 ± 0.13
Spotted seatrout							
	1982						
	Weekend	0.76	0.63 ± 0.14	0.34 ± <.01	0.59		0.61 ± 0.24
	Weekday		0.86 ± 0.11	1.04 ± 0.29			0.88 ± 0.42
	1983						
	Weekend		0.73 ± 0.14		1.38		0.75 ± 0.18
	Weekday		1.05 ± 0.07	1.26			1.05 ± 0.08
	1984						
	Weekend		1.15 ± 0.11				1.15 ± 0.11
	Weekday	0.84 ± 0.11	1.15 ± 0.07	0.99 ± 0.06	0.81		0.97 ± 0.22
	1985						
	Weekend		0.95 ± 0.05				0.95 ± 0.05
	Weekday		0.79 ± 0.28				0.79 ± 0.28

Table H.10. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper							
1982 <sup>a</sup>							
		Weekend					
		Weekday					
1983							
		Weekend					
		Weekday					
1984							
		Weekend					
		Weekday					
1985							
		Weekend					
		Weekday					
All species combined <sup>b</sup>							
1982							
		Weekend	1.85	1.00 ± 1.81	2.79 ± 2.38	1.47 ± 1.78	1.58 ± 2.17
		Weekday		1.56 ± 2.80	3.07 ± 3.06	1.24 ± 0.02	2.28 ± 2.48
1983							
		Weekend	0.10	1.78 ± 0.64	6.80 ± 1.46	0.79 ± 0.21	3.49 ± 0.87
		Weekday		3.44 ± 1.14	6.84 ± 1.73	7.86 ± 4.63	6.25 ± 1.75
1984							
		Weekend		3.01 ± 0.77	5.97 ± 1.12	4.53 ± 1.02	4.50 ± 0.95
		Weekday	0.46 ± 0.09	1.81 ± 0.97	6.54 ± 1.48	2.59 ± 2.25	4.00 ± 1.39
1985							
		Weekend	4.51 ± 2.03	3.92 ± 0.52	5.41 ± 0.48	2.55 ± 1.92	4.91 ± 0.59
		Weekday		1.76 ± 0.99	6.63 ± 0.62	1.70 ± 1.70	3.88 ± 0.88

<sup>a</sup>Mean weights are not available for this species in this year.

<sup>b</sup>Includes "other" species.

Table H.11. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the low-use season by species, day type and area (1982-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year Day type	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Atlantic croaker					
1982-83					
Weekend					
Weekday		0.28			0.28
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Atlantic sharpnose shark					
1982-83 <sup>a</sup>					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Cobia					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					



Table H.11. (Cont'd.)

Species	Year	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide
King mackerel					
	1982-83				
	Weekend				
	Weekday				
	1983-84				
	Weekend				
	Weekday				
	1984-85				
	Weekend				
	Weekday				
	1985-86				
	Weekend				
	Weekday				
Red drum					
	1982-83				
	Weekend		1.65		1.65
	Weekday		1.23		1.23
	1983-84				
	Weekend				
	Weekday			2.20	2.20
	1984-85				
	Weekend				
	Weekday				
	1985-86				
	Weekend		3.28 ± 0.15		3.28 ± 0.15
	Weekday				
Red snapper					
	1982-83				
	Weekend				
	Weekday		0.40 ± 0.07	1.33	0.45 ± 0.32
	1983-84				
	Weekend		0.75 ± 0.28		0.75 ± 0.28
	Weekday				
	1984-85				
	Weekend		0.42	0.04	0.42 ± 0.42
	Weekday				
	1985				
	Weekend		0.34 ± 0.08	0.50	0.49 ± 0.47
	Weekday		0.16		0.16

Table H.11. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Sand seatrout					
1982-83					
Weekend					
Weekday		0.43 ± 0.79			0.43 ± 0.79
1983-84					
Weekend		0.43 ± 0.02			0.43 ± 0.02
Weekday					
1984-85					
Weekend					
Weekday					
1985					
Weekend		0.42 ± 0.04			0.42 ± 0.04
Weekday		0.44			0.44
Spanish mackerel					
1982-83					
Weekend		0.30			0.30
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend		0.28			0.28
Weekday					
1985					
Weekend					
Weekday					
Spotted seatrout					
1982-83					
Weekend		0.84			0.84
Weekday		1.35			1.35
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend		1.03			1.03
Weekday					

Table H.11. (Cont'd.)

Species	Year	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide
Vermilion snapper					
	1982-83 <sup>a</sup>				
	Weekend				
	Weekday				
	1983-84				
	Weekend				
	Weekday				
	1984-85				
	Weekend				
	Weekday				
	1985-86				
	Weekend				
	Weekday				
All species combined <sup>b</sup>					
	1982-83				
	Weekend		0.98	2.63	1.09 ± 0.56
	Weekday	0.44 ± 0.94		1.33	0.45 ± 0.80
	1983-84				
	Weekend	0.53 ± 0.05		1.40	0.55 ± 0.06
	Weekday			2.20	2.20
	1984-85				
	Weekend	0.75 ± 0.26			0.75 ± 0.26
	Weekday	1.48 ± 1.09			1.48 ± 1.09
	1985-86				
	Weekend	0.96 ± 0.06	0.96 ± 0.06	0.50 ± 0.50	0.76 ± 0.25
	Weekday	0.30 ± 0.30	0.30 ± 0.30	0.50 ± 0.50	0.30 ± 0.30

<sup>a</sup>Mean weights are not available for this species in this year.

<sup>b</sup>Includes "other" species.

Table H.12. Annual mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in the TTS by species and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
<b>Atlantic croaker</b>					
1983-84	201	322			266 $\pm$ 173
1984-85	253	288 $\pm$ 14	208		281 $\pm$ 36
1985-86	234	237 $\pm$ 32			237 $\pm$ 49
<b>Atlantic sharpnose shark</b>					
1983-84		1010	958 $\pm$ 13		959 $\pm$ 19
1984-85		651 $\pm$ 119	500 $\pm$ 37		516 $\pm$ 24
1985-86	893	842 $\pm$ 79	913 $\pm$ 37		903 $\pm$ 54
<b>Cobia</b>					
1983-84		1133 $\pm$ 38	1325	800	1214 $\pm$ 745
1984-85		1048 $\pm$ 51	1071 $\pm$ 44		1069 $\pm$ 24
1985-86	788	968 $\pm$ 32	785 $\pm$ 216	1276	879 $\pm$ 443
<b>King mackerel</b>					
1983-84		997 $\pm$ 24	1014 $\pm$ 16	1044 $\pm$ 36	1014 $\pm$ 17
1984-85		992 $\pm$ 17	956 $\pm$ 19	842 $\pm$ 14	950 $\pm$ 17
1985-86	1549 $\pm$ 349	934 $\pm$ 20	926 $\pm$ 13	915	966 $\pm$ 44
<b>Red drum</b>					
1983-84		574 $\pm$ 26		595	575 $\pm$ 67
1984-85		605 $\pm$ 8		725	610 $\pm$ 37
1985-86		540 $\pm$ 23			540 $\pm$ 23
<b>Red snapper</b>					
1983-84		318 $\pm$ 3	255 $\pm$ 11	326 $\pm$ 14	305 $\pm$ 7
1984-85		308 $\pm$ 8	187 $\pm$ 20	244 $\pm$ 22	302 $\pm$ 9
1985-86		282 $\pm$ 11	282 $\pm$ 29	370 $\pm$ 50	350 $\pm$ 43
<b>Sand seatrout</b>					
1983-84	219	343 $\pm$ 5	318		339 $\pm$ 11
1984-85	267	346 $\pm$ 7	286 $\pm$ 11		339 $\pm$ 25
1985-86	236 $\pm$ 27	333 $\pm$ 9	308 $\pm$ 11		330 $\pm$ 9
<b>Spanish mackerel</b>					
1983-84		578 $\pm$ 12	612 $\pm$ 17		595 $\pm$ 10
1984-85		593 $\pm$ 53	595	432	438 $\pm$ 215
1985-86	694 $\pm$ 87	611 $\pm$ 62	580 $\pm$ 25	721	616 $\pm$ 60
<b>Spotted seatrout</b>					
1983-84		430 $\pm$ 19	511	513	432 $\pm$ 31
1984-85	445 $\pm$ 20	487 $\pm$ 9	469 $\pm$ 12	442	471 $\pm$ 55
1985-86		448 $\pm$ 17			448 $\pm$ 17

Table H.12. (Cont'd.)

Species Year	Area									
	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide	
Vermilion snapper										
1983-84										
1984-85										
1985-86										
All species combined <sup>a</sup>										
1983-84	265 ±	58	465 ±	42	749 ±	76	421 ±	55	592 ±	55
1984-85	342 ±	19	488 ±	30	733 ±	74	651 ±	71	557 ±	40
1985-86	820 ±	261	497 ±	45	709 ±	40	478 ±	74	594 ±	52

<sup>a</sup>Includes "other" species.

Table H.13. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the high-use season by species, day type and area (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983					
Weekend	201				201
Weekday		322			322
1984					
Weekend		286 $\pm$ 16			286 $\pm$ 86
Weekday	253	304 $\pm$ 6	208		271 $\pm$ 85
1985					
Weekend	234				204 $\pm$ 48
Weekday					269 $\pm$ 269
Atlantic sharpnose shark					
1983					
Weekend			970 $\pm$ 1		970 $\pm$ 1
Weekday		1010	934		936 $\pm$ 475
1984					
Weekend		651 $\pm$ 119	480		490 $\pm$ 236
Weekday			704		704
1985					
Weekend	893	201 $\pm$ 30	897 $\pm$ 56		887 $\pm$ 84
Weekday		269	940 $\pm$ 34		933 $\pm$ 39
Cobia					
1983					
Weekend		1230		800	1035 $\pm$ 710
Weekday		1101 $\pm$ 8	1325		1173 $\pm$ 325
1984					
Weekend		1048 $\pm$ 51	1115		1073 $\pm$ 329
Weekday			1026		1026
1985					
Weekend	788	968 $\pm$ 32	785 $\pm$ 216	1276	846 $\pm$ 593
Weekday					968 $\pm$ 32
King mackerel					
1983					
Weekend		1002 $\pm$ 36	974 $\pm$ 18	911 $\pm$ 59	978 $\pm$ 23
Weekday		992 $\pm$ 33	1027 $\pm$ 18	1069 $\pm$ 11	1027 $\pm$ 18
1984					
Weekend		977 $\pm$ 14	932 $\pm$ 20	837 $\pm$ 16	928 $\pm$ 17
Weekday		1104 $\pm$ 78	992 $\pm$ 20	889	990 $\pm$ 66
1985					
Weekend	1549 $\pm$ 349	938 $\pm$ 26	925 $\pm$ 18	915	992 $\pm$ 61
Weekday		922 $\pm$ 10	927 $\pm$ 21		926 $\pm$ 19

Table H.13. (Cont'd.)

Species Year	Area					Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Red drum						
1983						
Weekend		551 ± 48				551 ± 48
Weekday		591 ± 34				591 ± 34
1984						
Weekend		596 ± 6				596 ± 6
Weekday		622 ± 15		725		632 ± 81
1985						
Weekend		518 ± 12				518 ± 12
Weekday		482				481
Red snapper						
1983						
Weekend		317 ± 3	232 ± 0	326 ± 15		300 ± 6
Weekday			263 ± 14	328		284 ± 88
1984						
Weekend		306 ± 19	212 ± 1	243 ± 24		271 ± 14
Weekday		302 ± 26	210	260		270 ± 95
1985						
Weekend		304 ± 22	282 ± 29	300 ± 34		291 ± 30
Weekday				463		370 ± 264
Sand seatrout						
1983						
Weekend	219	350 ± 19				306 ± 51
Weekday			318			318
1984						
Weekend		343 ± 7	272 ± 5			327 ± 5
Weekday	267	385	322 ± 15			281 ± 226
1985						
Weekend	236 ± 27	292 ± 31	309 ± 13			290 ± 27
Weekday		325 ± 0	296			324 ± 7
Spanish mackerel						
1983						
Weekend		589 ± 5	587 ± 40			588 ± 13
Weekday		554 ± 38	626 ± 7			612 ± 7
1984						
Weekend		609 ± 57	595			606 ± 151
Weekday		673		432		432 ± 216
1985						
Weekend	694 ± 87	607 ± 81	615 ± 43	724		631 ± 88
Weekday		627 ± 49	556 ± 22			569 ± 27

Table H.13. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout					
1983					
Weekend		414 ± 23		513	417 ± 35
Weekday		473 ± 9	511		473 ± 16
1984					
Weekend		487 ± 14			487 ± 14
Weekday	445 ± 20	488 ± 8	469 ± 12	442	463 ± 76
1985					
Weekend		461 ± 9			461 ± 9
Weekday		412 ± 61			412 ± 61
Vermilion snapper					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1983					
Weekend	265 ± 58	475 ± 49	721 ± 89	380 ± 31	554 ± 56
Weekday		521 ± 81	765 ± 112	781 ± 268	726 ± 108
1984					
Weekend		525 ± 41	761 ± 88	668 ± 80	645 ± 61
Weekday	342 ± 19	447 ± 69	708 ± 119	584 ± 158	593 ± 87
1985					
Weekend	820 ± 261	610 ± 36	682 ± 48	491 ± 143	665 ± 57
Weekday		442 ± 83	811 ± 49	507 ± 60	607 ± 67

<sup>a</sup>Includes "other" species.



Table H.14. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in the TTS during the low-use season by species, day type and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Atlantic croaker					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Atlantic sharpnose shark					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Cobia					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
King mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					

Table H.14. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red drum					
1983-84					
Weekend					
Weekday				595	595
1984-85					
Weekend					
Weekday					
1985-86					
Weekend		670 ± 7			670 ± 7
Weekday					
Red snapper					
1983-84					
Weekend		332 ± 35			332 ± 35
Weekday					
1984-85					
Weekend		313 ± 2	151		310 ± 4
Weekday					
1985-86					
Weekend		284 ± 11		331	327 ± 307
Weekday		234			234
Sand seatrout					
1983-84					
Weekend		341 ± 5			341 ± 5
Weekday					
1984-85					
Weekend		345 ± 16			345 ± 16
Weekday		364			364
1985-86					
Weekend		336 ± 9			336 ± 9
Weekday		344			344
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend		374			374
Weekday					
1985-86					
Weekend					
Weekday					

Table H.14. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spotted seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend		479			479
Weekday					
Vermilion snapper					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1983-84					
Weekend		335 ± 10		315 ± 315	335 ± 14
Weekday				595 ± 595	595
1984-85					
Weekend		379 ± 21	151	819 ± 819	382 ± 28
Weekday		461 ± 107		520 ± 520	470 ± 172
1985-86					
Weekend		388 ± 7		331	363 ± 148
Weekday		318 ± 318			318

<sup>a</sup>Includes "other" species.

Table H.15. Percent composition of "other" species caught by private-boat fishermen in the TTS by area, season and day type (1983-1986).

Year Season Day type	Common name	Scientific name	Area					
			Galveston	Matagorda	Christi	Lower Laguna Madre	Coastwide	
1983-84								
High use								
Weekend								
	Atlantic bonito	<u>Sarda sarda</u>		12.27	1.45			1.18
	Atlantic spadefish	<u>Chaetodipterus faber</u>	58.82	3.80				7.65
	Banded rudderfish	<u>Seriola zonata</u>		6.33				2.94
	Black drum	<u>Pogonius cromis</u>	29.41	3.80				4.71
	Blackfin tuna	<u>Thunnus atlanticus</u>			2.90		20.00	1.18
	Bluefish	<u>Pomatomus saltatrix</u>		12.66				6.47
	Blue runner	<u>Caranx crysos</u>					20.00	0.59
	Bony fishes sp.	<u>Class Osteichthes</u>		2.53				1.18
	Crevalle jack	<u>Caranx hippos</u>	5.88	5.06	31.88		20.00	16.47
	Dolphins sp.	<u>Family Coryphaenidae</u>						
	Dolphin	<u>Coryphaena hippurus</u>		2.53	2.90			2.35
	Gray triggerfish	<u>Balistes capricus</u>		1.27				0.59
	Great barracuda	<u>Sphyraena barracuda</u>		2.53				1.18
	Greater amberjack	<u>Seriola dumerili</u>		3.80	4.35			3.53
	Gulf kingfish	<u>Menticirrhus littoralis</u>		6.33				2.94
	Ladyfish	<u>Elops saurus</u>		1.27				0.59
	Little tunny	<u>Euthynnus alletteratus</u>		1.27	11.59			5.29
	Pigfish	<u>Orthopristis chrysoptera</u>		1.27				0.59
	Sailfish	<u>Istiophorus platypterus</u>			2.90			1.18
	Sea basses sp.	<u>Family Serranidae</u>			1.45			0.59
	Rock hind	<u>Epinephelus adscensionis</u>			2.90		20.00	1.18
	Warsaw grouper	<u>Epinephelus nigritus</u>		1.27				1.18
	Sharks sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>		17.72	7.25		20.00	11.76
	Dusky shark	<u>Carcharhinus obscurus</u>			21.74			8.82
	Requiem sharks	<u>Family Carcharhinidae</u>			2.90			1.18
	Sandbar shark	<u>Carcharhinus plumbeus</u>			2.90			1.18
	Sharksucker	<u>Echeneis naucrates</u>			1.45			0.59
	Sheepshead	<u>Archosargus probatocephalus</u>		20.25				9.41
	Southern kingfish	<u>Menticirrhus americanus</u>	5.88	5.06				2.94
	Tripletail	<u>Lobotes surinamensis</u>			1.45			0.59

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Christi	Lower Laguna Madre	Coastwide	
	Weekday		Atlantic bonito	<u>Sarda sarda</u>		1.68				1.29
			Atlantic spadefish	<u>Chaetodipterus faber</u>		0.84				0.65
			Banded drum	<u>Larimus fasciatus</u>					100.00	0.65
			Black drum	<u>Pogonius cromis</u>		15.13		5.71		12.90
			Blue runner	<u>Caranx crysos</u>				8.57		8.39
			Cero	<u>Scomberomorus regalis</u>		3.36				2.58
			Crevalle jack	<u>Caranx hippos</u>		5.88				4.52
			Dolphins sp.	Family <u>Coryphaenidae</u>						
			Dolphin	<u>Coryphaena hippurus</u>		0.84		5.71		1.94
			Florida pompano	<u>Trachinotus carolinus</u>		1.68				1.29
			Gray triggerfish	<u>Balistes capricus</u>		5.88		2.86		5.16
			Little tunny	<u>Euthynnus alletteratus</u>		0.84		2.86		1.29
			Pigfish	<u>Orthopristis chrysoptera</u>		0.84				0.65
			Sailfish	<u>Istiophorus platyperus</u>				2.86		0.65
			Sea basses sp.	Family <u>Serranidae</u>						
			Gag	<u>Mycteroperca microlepis</u>		2.52				1.94
			Jewfish	<u>Epinephalus itijara</u>				2.86		0.65
			Warsaw grouper	<u>Epinephalus nigritus</u>				2.86		0.65
			Sharks sp.							
			Blacknose shark	<u>Carcharhinus acronotus</u>				2.86		0.65
			Blacktip shark	<u>Carcharhinus limbatus</u>		8.40		8.57		8.39
			Dusky shark	<u>Carcharhinus obscurus</u>				40.00		9.03
			Finetooth shark	<u>Carcharhinus isodon</u>		0.84		5.71		1.94
			Sharksucker	<u>Echeneis naucrates</u>				5.71		1.29
			Silver seatrout	<u>Cynoscion nothus</u>		44.54				34.19
			Southern flounder	<u>Paralichthys lethostigma</u>		0.84		2.86		1.29
			Southern kingfish	<u>Menticirrhus americanus</u>		5.04				3.87
Low use										
	Weekend		Black drum	<u>Pogonius cromis</u>		33.33			33.33	33.33
			Gulf kingfish	<u>Menticirrhus littoralis</u>		66.67				44.44
			Sheepshead	<u>Archosargus probatocephalus</u>					11.11	3.70
			Snappers sp.	Family <u>Lutjanidae</u>						
			Gray snapper	<u>Lutjanus griseus</u>					55.56	18.52

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1984-85	High use	Weekend	Atlantic bonito	<u>Sarda sarda</u>	0.29				0.24
			Atlantic spadefish	<u>Chaetodipterus faber</u>	7.58		6.78	21.05	8.08
			Banded drum	<u>Larimus fasciatus</u>	43.73				35.63
			Black drum	<u>Pogonias cromis</u>	2.62				2.14
			Blue fish	<u>Pomatomus saltatrix</u>	8.75				7.13
			Blue runner	<u>Caranx crysos</u>				10.53	0.48
			Crevalle jack	<u>Caranx hippos</u>	2.04		10.17	5.26	3.33
			Dolphins sp.	Family <u>Coryphaenidae</u>					
			Dolphin	<u>Coryphaena hippurus</u>	17.49		47.46	5.26	21.14
			Pompano dolphin	<u>Coryphaena equisetis</u>	0.29				0.24
			Florida pompano	<u>Trachinotus carolinus</u>	0.29				0.24
			Gafftopsail catfish	<u>Bagre marinus</u>	0.58				0.48
			Gray triggerfish	<u>Balistes capricus</u>	9.91		1.69	5.26	8.55
			Great barracuda	<u>Sphyraena barracuda</u>				10.53	0.48
			Greater amberjack	<u>Seriola dumerili</u>	0.29				0.24
			Gulf kingfish	<u>Menticirrhus littoralis</u>	0.58		1.69	5.26	0.95
			Little tunny	<u>Euthynnus alletteratus</u>			8.47	21.05	2.14
			Pigfish	<u>Orthopristis chrysoptera</u>				5.26	0.24
			Sea basses sp.	Family <u>Serranidae</u>					
			Yellowedge grouper	<u>Epinephelus flavolimbatus</u>	0.29				0.24
			Sharks sp.						
			Blacktip shark	<u>Carcharhinus limbatus</u>			18.64		2.61
			Bonnethead	<u>Sphyrna tiburo</u>	0.29				0.24
			Finetooth shark	<u>Carcharhinus isodon</u>	0.58				0.48
			Requiem shark	Family <u>Carcharhinidae</u>					
			Sandbar shark	<u>Carcharhinus plumbeus</u>			1.69	5.26	0.48
			Spinner shark	<u>Carcharhinus brevipinna</u>	0.29				0.24
			Sheepshead	<u>Archosargus probatocephalus</u>					0.24
			Silver seatrout	<u>Cynoscion nothus</u>	0.29				0.24
			Snappers sp.	Family <u>Lutjanidae</u>					
			Gray snapper	<u>Lutjanus griseus</u>				5.26	0.24
			Lane snapper	<u>Lutjanus synagris</u>	2.92				2.38
			Southern flounder	<u>Paralichthys lethostigma</u>	0.29				0.24

Table H.15. (Cont 'd.)

Year Season Day type	Common name	Scientific name	Area					Lower Laguna Madre
			Galveston	Matagorda	Corpus Christi	Coastwide		
	Southern kingfish	<u>Menticirrhus americanus</u>	0.29				0.24	
	Tarpon	<u>Megalops atlanticus</u>	0.29				0.24	
Weekday	Atlantic spadefish	<u>Chaetodipterus faber</u>	11.92				6.47	
	Black drum	<u>Pogonius cromis</u>	3.31				1.80	
	Blue fish	<u>Pomatomus saltatrix</u>	4.64		1.63		3.24	
	Blue runner	<u>Caranx crysos</u>			1.63		0.72	
	Crevalle jack	<u>Caranx hippos</u>			2.44		1.08	
	Dolphins sp.	Family <u>Coryphaenidae</u>						
	Dolphin	<u>Coryphaena hippurus</u>	3.31		26.83		13.67	
	Gray triggerfish	<u>Balistes capricus</u>			3.25		1.44	
	Greater amberjack	<u>Seriola dumerili</u>	1.99				1.08	
	Gulf kingfish	<u>Menticirrhus littoralis</u>			4.07		1.80	
	Little tunny	<u>Euthynnus alletteratus</u>			2.44	100.00	1.44	
	Pigfish	<u>Orthopristis chrysoptera</u>	0.66				0.36	
	Pinfish	<u>Lagodon rhomboides</u>					0.36	
	Rainbow runner	<u>Elagatis bipinnulata</u>	1.32				0.72	
	Sea basses sp.	Family <u>Serranidae</u>						
	Gag	<u>Mycteroperca microlepis</u>			0.66		0.36	
	Sharks sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>	1.32		0.81		1.08	
	Bonnethead	<u>Sphyrna tiburo</u>	1.32				0.72	
	Requiem shark	Family <u>Garcharhinidae</u>	0.66				0.36	
	Sandbar shark	<u>Carcharhinus plumbeus</u>			0.81		0.36	
	Scalloped hammerhead	<u>Sphyrna lewini</u>	0.66				0.36	
	Sheepshead	<u>Archosargus probatocephalus</u>	66.67				1.08	
	Silver seatrout	<u>Cynoscion nothus</u>	65.56		51.22		58.27	
	Snappers sp.	Family <u>Lutjanidae</u>						
	Lane snapper	<u>Lutjanus synagris</u>	1.32				0.72	
	Southern flounder	<u>Paralichthys lethostigma</u>			4.07		1.80	
	Southern kingfish	<u>Menticirrhus americanus</u>	33.33				0.72	
Low use								
Weekend	Black drum	<u>Pogonias cromis</u>	10.45				10.29	
	Crevalle jack	<u>Caranx hippos</u>	1.49			100.00	2.94	

Table H.15. (Cont'd.)

Year Season Day Type	Common name	Scientific name	Area						Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre			
	Gafftopsail catfish	<u>Bagre marinus</u>		14.93				14.71	
	Gray triggerfish	<u>Balistes capricus</u>		2.99				2.94	
	Gulf kingfish	<u>Menticirrhus littoralis</u>		5.97				5.88	
	Pigfish	<u>Orthopristis chrysoptera</u>		7.46				7.35	
	Northern kingfish	<u>Menticirrhus saxatilis</u>		1.49				1.47	
	Sea basses sp.	Family Serranidae							
	Rock sea bass	<u>Centropristis philadelphica</u>		1.49				1.47	
	Sheepshead	<u>Archosargus probatocephalus</u>		28.36				27.94	
	Southern kingfish	<u>Menticirrhus americanus</u>		5.97				5.88	
	Striped mullet	<u>Mugil cephalus</u>		19.40				19.12	
Weekday	Black drum	<u>Pogonias cromis</u>		100.00				95.45	
	Little tunny	<u>Euthynnus alletteratus</u>					100.00	4.55	
1985-86									
High use									
Weekend									
	Atlantic bonito	<u>Sarda sarda</u>		1.53				3.25	
	Atlantic spadefish	<u>Chaetodipterus faber</u>		22.96		4.52		14.91	
	Bighead searobin	<u>Prionotus tribulus</u>		16.67		10.00		0.19	
	Black drum	<u>Pogonius cromis</u>		4.59		0.32		3.63	
	Blackfin tuna	<u>Thunnus atlanticus</u>		0.51		3.22		0.19	
	Bluefish	<u>Pomatomus saltatrix</u>		3.06		0.64		1.53	
	Blue runner	<u>Caranx crysos</u>		1.02		11.29		7.08	
	Cero	<u>Scomberomorus regalis</u>				0.32		0.19	
	Crevalle jack	<u>Caranx hippos</u>		5.61		1.29		3.44	
	Dolphins sp.	Family Coryphaenidae		1.02			60.00	0.38	
	Dolphin	<u>Coryphaena hippurus</u>		13.26		50.64		34.99	
	Pompano dolphin	<u>Coryphaena equisetis</u>		0.51				0.19	
	Florida pompano	<u>Trachinotus carolinus</u>		6.63		0.32		2.68	
	Gafftopsail catfish	<u>Bagre marinus</u>		2.55				0.96	
	Gray triggerfish	<u>Balistes capricus</u>		4.59		2.90		3.44	
	Great barracuda	<u>Sphyraena barracuda</u>		1.02				0.38	
	Greater amberjack	<u>Seriola dumerili</u>		6.12		1.29		3.06	
	Gulf kingfish	<u>Menticirrhus littoralis</u>		2.04				0.76	



Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
			Jacks sp.	Family Carangidae			0.64		0.38
			Ladyfish	<u>Elops saurus</u>		0.51		0.32	0.38
			Little tunny	<u>Euthynnus alletteratus</u>	58.33	1.02		0.64	2.10
			Rainbow runner	<u>Elagatis bipinnulata</u>		2.04			0.76
			Remora	<u>Remora remora</u>				0.97	0.57
			Sea basses sp.	Family Serranidae					
			Warsaw grouper	<u>Epinephalus nigritus</u>	8.33				40.00
			Sharks sp.						
			Blacktip shark	<u>Carcharhinus limbatus</u>		0.51		0.32	0.38
			Bonnethead	<u>Sphyrna tiburo</u>		0.51			0.19
			Bull shark	<u>Carcharhinus leucas</u>		1.53			0.57
			Dusky shark	<u>Carcharhinus obscurus</u>				0.64	0.38
			Lemon shark	<u>Negaprion brevirostris</u>				0.32	0.19
			Requiem sharks	Family Carcharhinidae		1.53			0.57
			Sandbar shark	<u>Carcharhinus plumbeus</u>				4.84	2.87
			Sandtiger sharks	Family Odontaspidae	8.33				0.19
			Sheepshead	<u>Archosargus probatocephalus</u>		1.02			0.38
			Skipjack tuna	<u>Euthynnus pelamis</u>					0.19
			Smooth puffer	<u>Lagocephalus laevigatus</u>		0.51			0.19
			Snappers sp.	Family Lutjanidae					
			Lane snapper	<u>Lutjanus synagris</u>				0.32	0.19
			Southern flounder	<u>Paralichthys lethostigma</u>		11.73			4.40
			Southern kingfish	<u>Menticirrhus americanus</u>		2.04		4.19	3.25
			Weekday						
			Atlantic spadefish	<u>Chaetodipterus faber</u>				20.00	1.64
			Black drum	<u>Pogonias cromis</u>		2.56			2.34
			Blue fish	<u>Pomatomus saltatrix</u>		0.77			0.70
			Blue runner	<u>Caranx crysos</u>		0.51		2.86	0.70
			Crevalle jack	<u>Caranx hippos</u>		1.79		5.71	2.57
			Dolphins sp.	Family Coryphaenidae					
			Dolphin	<u>Coryphaena hippurus</u>		7.42		20.00	8.41
			Gafftopsail catfish	<u>Bagre marinus</u>		2.30			2.10
			Gray triggerfish	<u>Balistes capricus</u>		4.86		5.71	4.91
			Great barracuda	<u>Sphyraena barracuda</u>		0.26			0.23

Table H.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
	Greater amberjack	<u>Seriola dumerili</u>		3.32	2.86		3.27	
	Gulf kingfish	<u>Menticirrhus littoralis</u>		0.77			0.70	
	Hardhead catfish	<u>Arius felis</u>			5.71		0.47	
	Little tunny	<u>Enthynnus alletteratus</u>		0.51	5.71		0.94	
	Remora	<u>Remora remora</u>			2.86		0.23	
	Sea basses sp.	Family Serranidae		0.26			0.23	
	Snowy grouper	<u>Epinephalus niveatus</u>			2.86		0.23	
	Warsaw grouper	<u>Epinephalus nigritus</u>			2.86		0.23	
	Sharks sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>		0.51	2.86		0.47	
	Requiem sharks	Family Carcharhinidae		3.84			3.50	
	Sheepshead	<u>Archosargus probatocephalus</u>		0.26	11.43		1.17	
	Silver seatrout	<u>Cynoscion nothus</u>		69.82	5.71		64.25	
	Snappers sp.	Family Lutjanidae						
	Lane snapper	<u>Lutjanus griseus</u>		0.26			0.23	
	Southern flounder	<u>Paralichthys lethostigma</u>		0.26			0.23	
	Tarpon	<u>Megalops atlanticus</u>			2.86		0.23	
Low use								
Weekends	Black drum	<u>Pogonias cromis</u>		21.88			21.88	
	Pigfish	<u>Orthopristis chrysophera</u>		3.12			3.12	
	Sea basses sp.	Family Serranidae						
	Scamp	<u>Mycteroperca phenax</u>		3.12			3.12	
	Sheepshead	<u>Archosargus probatocephalus</u>		68.75			68.75	
	Snappers sp.	Family Lutjanidae						
	Yellowtail snapper	<u>Ocyurus chrysurus</u>		3.12			3.12	
Weekdays	Black drum	<u>Pogonias cromis</u>		60.00			60.00	
	Sea basses sp.	Family Serranidae						
	Black grouper	<u>Mycteroperca bonaci</u>		40.00			40.00	

Table H.16. Percent composition of the annual residential origin of private-boat fishermen-trips in the TTS by area (1982-86).

Area Year <sup>a</sup>	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1982-83	94	0	6	0
1983-84	96	0	0	4
1984-85	61	13	26	0
1985-86	95	0	5	0
Matagorda				
1982-83	67	16	16	1
1983-84	36	16	44	3
1984-85	55	15	30	0
1985-86	44	23	31	2
Corpus Christi				
1982-83	39	30	28	2
1983-84	22	21	53	4
1984-85	23	20	54	3
1985-86	28	13	56	5
Lower Laguna Madre				
1982-83	42	10	14	34
1983-84	16	32	52	0
1984-85	68	10	17	6
1985-86	65	9	17	9
Coastwide				
1982-83	59	13	25	2
1983-84	29	20	48	3
1984-85	40	17	40	3
1985-86	40	16	42	3

<sup>a</sup> Prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table H.17. Percent composition of the residential origin of private-boat fishermen-trips in the TTS during the high-use season by area and day type (1982-1986).

Area Year <sup>a</sup>	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties	Other states/ countries	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties	Other states/ countries
Galveston								
1982-83	89	0	11	0	100	0	0	0
1983-84	100	0	0	0	50	0	0	50
1984-85	91	0	9	0	33	25	42	0
1985-86	94	0	6	0	100	0	0	0
Matagorda								
1982-83	38	36	25	4	42	27	29	3
1983-84	38	13	46	3	37	13	45	5
1984-85	49	17	34	0	59	14	26	1
1985-86	44	26	29	2	42	19	32	6
Corpus Christi								
1982-83	32	11	56	0	24	9	56	10
1983-84	26	22	50	2	16	21	56	7
1984-85	26	23	50	1	17	16	59	7
1985-86	32	13	52	3	18	12	67	4
Lower Laguna Madre								
1982-83	87	8	5	0	38	22	38	3
1983-84	19	26	55	0	12	40	48	0
1984-85	77	9	12	2	51	15	28	7
1985-86	89	11	0	0	40	7	33	20
Coastwide								
1982-83	42	18	40	1	28	12	50	9
1983-84	32	19	47	2	22	20	52	6
1984-85	41	19	39	1	29	15	48	8
1985-86	43	17	39	2	29	14	51	6

<sup>a</sup>prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table H.18. Percent composition of the residential origin of private-boat fishermen-trips in the TTS during the low-use season by area and day type (1982-1986). Blank = no fishermen interviewed.

Area Year <sup>a</sup>	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties
Galveston								
1982-83								
1983-84								
1984-85								
1985-86	100	0	0	0				
Matagorda								
1982-83	100	0	0	0	88	0	12	0
1983-84	27	41	32	0				
1984-85	78	8	12	2	100	0	0	0
1985-86	57	10	33	0	0	0	100	0
Corpus Christi								
1982-83	100	0	0	0	100	0	0	0
1983-84	100	0	0	0	40	0	60	0
1984-85	0	17	67	17	0	0	100	0
1985-86	25	50	25	0				
Lower Laguna Madre								
1982-83					100	0	0	0
1983-84	0	100	0	0	0	0	100	0
1984-85	76	3	10	10	57	10	5	27
1985-86	0	0	100	0				
Coastwide								
1982-83	78	22	0	0	89	0	11	0
1983-84	28	44	28	0	25	0	75	0
1984-85	74	8	14	3	40	0	60	0
1985-86	53	14	33	0	0	0	100	0

<sup>a</sup>prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table H.19. Mean fishing-party size (No. of fishermen) and mean trip length (h) for private-boat fishermen in the TTS by area, season and day type (1982-1986). Blanks = no fishermen interviewed.

Area Year	Mean fishing-party size				Mean trip length				
	High-use season		Low-use season		High-use season		Low-use season		
	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	
Galveston									
1982-83	3.1	3.5			6.7	7.5			6.8
1983-84	3.1	2.0			4.1	8.0			4.5
1984-85	3.7	4.0			5.7	4.5			5.1
1985-86	3.4	2.3	3.0		5.8	4.7	8.0		5.7
Matagorda									
1982-83	3.1	2.9	2.3	2.8	6.4	6.3	8.5	9.0	6.5
1983-84	2.9	2.9	3.7		6.7	6.9	6.2		6.7
1984-85	3.2	2.6	3.4	3.5	7.1	6.7	6.2	4.8	6.9
1985-86	3.1	3.2	2.0	4.0	7.2	8.5	5.9	9.0	7.3
Corpus Christi									
1982-83	3.1	2.8	2.0	2.0	5.8	5.7	7.0	4.0	5.7
1983-84	3.2	2.8	2.0	2.5	5.9	5.7	6.5	4.2	5.8
1984-85	3.1	2.9	2.0	7.0	5.3	5.3	3.8	6.0	5.3
1985-86	2.9	2.7	2.6		5.8	5.6	4.7		5.7
Lower Laguna Madre									
1982-83	3.0	3.2		3.0	6.2	7.9		8.1	7.4
1983-84	3.0	2.8	4.0	3.0	6.2	4.8	7.5	5.5	5.8
1984-85	3.0	2.5	2.5	3.0	5.6	3.9	4.8	4.2	5.1
1985-86	3.1	2.7	2.0		9.7	4.6	7.0		7.3
Coastwide									
1982-83	3.1	2.8	2.4	3.0	6.1	5.9	7.7	8.1	6.2
1983-84	3.1	2.9	3.6	2.7	6.1	6.0	6.3	4.7	6.1
1984-85	3.2	2.8	3.2	4.0	6.1	5.5	5.9	4.8	5.9
1985-86	3.0	2.9	2.1	4.0	6.5	6.5	5.8	9.0	6.4

Appendix I: Estimates for party-boat fishing in the Texas Territorial Sea (TTS).

Table I.1. Number of days surveyed and number of party-boat fishermen interviewed ( ) in the TTS by season, day type and area (1983-1986). WE = weekend days. WD = weekdays.

Year	Season	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1983-84	High use	WE	32 (2)	45 (3)	45 (19)	31 (11)	153 (35)
		WD	63 (10)	84 (10)	96 (12)	66 (15)	309 (37)
	Low use	WE	12 (0)	24 (0)	22 (0)	12 (0)	70 (0)
		WD	24 (10)	42 (0)	43 (0)	24 (0)	133 (0)
	Annual		131 (2)	195 (13)	206 (31)	133 (26)	665 (72)
1984-85	High use	WE	31 (0)	40 (0)	41 (19)	31 (0)	143 (19)
		WD	65 (0)	87 (8)	95 (20)	66 (10)	313 (38)
	Low use	WE	12 (0)	20 (0)	21 (0)	12 (6)	66 (6)
		WD	24 (0)	41 (0)	44 (0)	24 (0)	133 (0)
	Annual		132 (0)	189 (8)	201 (39)	133 (16)	655 (63)
1985-86	High use	WE	31 (0)	41 (0)	41 (14)	31 (7)	144 (21)
		WD	66 (0)	87 (0)	99 (37)	66 (21)	318 (58)
	Low use	WE	12 (0)	19 (0)	23 (0)	12 (0)	66 (0)
		WD	24 (0)	43 (0)	43 (0)	24 (0)	134 (0)
	Annual		133 (0)	190 (0)	206 (51)	133 (28)	662 (79)



Table I.2. Pressure estimates (man-h x 1000)  $\pm$  1 SE for party-boat fishermen in the TTS by season, day type and area (1983-1986).

Area Year	High-use season		Low-use season		Annual <sup>a</sup>
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1983-84	2.0 $\pm$ 2.0	0.0	0.0	0.0	2.0 $\pm$ 2.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Matagorda					
1983-84	0.2 $\pm$ 0.2	3.6 $\pm$ 3.5	0.0	0.0	3.8 $\pm$ 3.5
1984-85	0.0	0.2 $\pm$ 0.2	0.0	0.0	0.2 $\pm$ 0.2
1985-86	0.0	0.0	0.0	0.0	0.0
Corpus Christi					
1983-84	11.3 $\pm$ 11.3	14.0 $\pm$ 13.3	0.0	0.0	25.3 $\pm$ 17.4
1984-85	2.8 $\pm$ 2.8	7.4 $\pm$ 6.1	0.0	0.0	10.3 $\pm$ 6.7
1985-86	5.9 $\pm$ 3.9	7.5 $\pm$ 3.3	0.0	0.0	13.4 $\pm$ 5.1
Lower Laguna Madre					
1983-84	4.9 $\pm$ 4.3	10.4 $\pm$ 9.7	0.0	0.0	15.3 $\pm$ 10.7
1984-85	0.0	0.9 $\pm$ 0.7	4.5 $\pm$ 4.5	0.0	5.4 $\pm$ 4.5
1985-86	0.9 $\pm$ 0.7	4.3 $\pm$ 2.5	0.0	0.0	5.2 $\pm$ 2.6
Coastwide <sup>a</sup>					
1983-84	18.5 $\pm$ 12.3	28.0 $\pm$ 16.9	0.0	0.0	46.5 $\pm$ 20.9
1984-85	2.8 $\pm$ 2.8	8.6 $\pm$ 6.1	4.5 $\pm$ 4.5	0.0	15.9 $\pm$ 8.1
1985-86	6.8 $\pm$ 4.0	11.8 $\pm$ 4.1	0.0	0.0	18.6 $\pm$ 5.7

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table I.3. Annual estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by party-boat fishermen in the TTS by species and area (1983-1986).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.3 $\pm$ 0.2	0.0	0.3 $\pm$ 0.2
Cobia					
1983-84	0.0	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
King mackerel					
1983-84	0.0	0.0	8.6 $\pm$ 5.7	0.9 $\pm$ 0.6	9.5 $\pm$ 5.8
1984-85	0.0	<.1 $\pm$ <.1	0.8 $\pm$ 0.5	0.5 $\pm$ 0.5	1.3 $\pm$ 0.7
1985-86	0.0	0.0	2.4 $\pm$ 1.1	0.3 $\pm$ 0.2	2.7 $\pm$ 1.1
Red drum					
1983-84	0.0	0.3 $\pm$ 0.3	0.0	0.0	0.3 $\pm$ 0.3
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Red snapper					
1983-84	0.0	0.0	0.0	7.3 $\pm$ 6.2	7.3 $\pm$ 6.2
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.7 $\pm$ 0.5	0.7 $\pm$ 0.5
Sand seatrout					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Spanish mackerel					
1983-84	0.0	0.0	0.4 $\pm$ 0.4	0.0	0.4 $\pm$ 0.4
1984-85	0.0	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
1985-86	0.0	0.0	0.0	0.0	0.0
Spotted seatrout					
1983-84	0.0	0.9 $\pm$ 0.6	0.0	0.0	0.9 $\pm$ 0.6
1984-85	0.0	0.3 $\pm$ 0.3	0.0	0.0	0.3 $\pm$ 0.3
1985-86	0.0	0.0	0.0	0.0	0.0

Table I.3. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Vermilion snapper					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Other species					
1983-84	0.0	1.2	0.4 ± 0.4	0.5 ± 0.3	2.1
1984-85	0.0	0.0	0.3 ± 0.2	0.9 ± 0.8	1.1 ± 0.8
1985-86	0.0	0.0	0.8 ± 0.4	1.1 ± 0.8	1.9 ± 0.9
All species combined <sup>a</sup>					
1983-84	0.0	2.5 ± 2.0	9.5 ± 6.4	8.7 ± 7.1	20.7 ± 9.7
1984-85	0.0	0.4 ± 0.3	1.1 ± 0.6	1.4 ± 1.3	2.9 ± 1.5
1985-86	0.0	0.0	3.6 ± 1.6	2.1 ± 1.0	5.6 ± 1.9

<sup>a</sup>Due to rounding of numbers, these tables may not exactly equal individual totals.

Table I.4. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the high-use season by species, day type and area (1983-1985).

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide <sup>a</sup>
Atlantic croaker						
	1983					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
	1984					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
	1985					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
Atlantic sharpnose shark						
	1983					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
	1984					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
	1985					
		Weekend	0.0	0.0	<.1 $\pm$ <.1	0.0
		Weekday	0.0	0.0	0.3 $\pm$ 0.2	0.0
						0.1 $\pm$ 0.1
						0.3 $\pm$ 0.2
Cobia						
	1983					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
	1984					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
	1985					
		Weekend	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0
King mackerel						
	1983					
		Weekend	0.0	0.0	3.9 $\pm$ 3.9	0.5 $\pm$ 0.5
		Weekday	0.0	0.0	4.7 $\pm$ 4.2	0.4 $\pm$ 0.3
	1984					
		Weekend	0.0	0.0	<.1 $\pm$ <.1	0.0
		Weekday	0.0	<.1 $\pm$ <.1	0.8 $\pm$ 0.5	<.1 $\pm$ <.1
	1985					
		Weekend	0.0	0.0	1.0 $\pm$ 0.7	<.1 $\pm$ <.1
		Weekday	0.0	0.0	1.4 $\pm$ 0.9	0.2 $\pm$ 0.2
						1.0 $\pm$ 0.7
						1.7 $\pm$ 0.9

Table I.4. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
Red drum						
	1983					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.3 ± 0.3	0.0	0.0	0.3 ± 0.3
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Red snapper						
	1983					
	Weekend	0.0	0.0	0.0	6.9 ± 6.2	6.9 ± 6.2
	Weekday	0.0	0.0	0.0	0.4 ± 0.3	0.4 ± 0.3
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985					
	Weekend	0.0	0.0	0.0	0.3 ± 0.3	0.3 ± 0.3
	Weekday	0.0	0.0	0.0	0.5 ± 0.5	0.5 ± 0.5
Sand seatrout						
	1983					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
	1983					
	Weekend	0.0	0.0	0.1 ± 0.1	0.0	0.1 ± 0.1
	Weekday	0.0	0.0	0.4 ± 0.4	0.0	0.4 ± 0.4
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0

Table I.4. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spotted seatrout						
	1983					
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday	0.0	0.9 ± 0.6	0.0	0.0	0.9 ± 0.6
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.3 ± 0.3	0.0	0.0	0.3 ± 0.3
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Vermilion snapper						
	1983					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Other species						
	1983					
	Weekend	0.0	0.1	0.4 ± 0.4	0.4 ± 0.3	0.9 ± 0.5
	Weekday	0.0	1.1	0.0	0.1 ± 0.1	1.2
	1984					
	Weekend	0.0	0.0	0.2 ± 0.2	0.0	0.2 ± 0.2
	Weekday	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1
	1985					
	Weekend	0.0	0.0	0.3 ± 0.2	0.8 ± 0.8	1.1 ± 0.8
	Weekday	0.0	0.0	0.5 ± 0.3	0.3 ± 0.2	0.8 ± 0.4
All species combined <sup>a</sup>						
	1983					
	Weekend	0.0	0.1 ± 0.1	4.4 ± 4.4	7.8 ± 7.0	12.3 ± 8.3
	Weekday	0.0	2.4 ± 2.1	5.1 ± 4.6	0.9 ± 0.5	8.5 ± 5.1
	1984					
	Weekend	0.0	0.0	0.2 ± 0.2	0.0	0.2 ± 0.2
	Weekday	0.0	0.4 ± 0.3	0.9 ± 0.5	0.1 ± 0.1	1.3 ± 0.6
	1985					
	Weekend	0.0	0.0	1.4 ± 0.9	1.1 ± 0.8	2.4 ± 1.2
	Weekday	0.0	0.0	2.2 ± 1.4	1.0 ± 0.6	3.2 ± 1.5

<sup>a</sup>Due to rounding of numbers, these tables may not exactly equal individual totals.

Table I.5. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the low-use season by species, day type and area (1983-1985).

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Year					
Day type					
Atlantic croaker					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Cobia					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
King mackerel					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.5 $\pm$ 0.5	0.5 $\pm$ 0.5
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0

Table I.5. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
Red drum						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Red snapper						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Sand seatrout						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0



Table I.5. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus	Lower	Coastwide <sup>a</sup>
				Christi	Laguna Madre	
Day type						
Spotted seatrout						
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Vermilion snapper						
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Other species						
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.8 ± 0.8	0.8 ± 0.8
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
All species combined <sup>a</sup>						
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	1.3 ± 1.3	1.3 ± 1.3
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0

<sup>a</sup>Due to rounding of numbers, these tables may not exactly equal individual totals.

Table I.6. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in the TTS by species and area (1983-1986). Blank = no fishermen interviewed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00
Atlantic sharpnose shark					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86			0.02 $\pm$ 0.02	0.00	0.02 $\pm$ 0.01
Cobia					
1983-84	0.00	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1984-85		0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00
King mackerel					
1983-84	0.00	0.00	0.34 $\pm$ 0.29	0.06 $\pm$ 0.05	0.20 $\pm$ 0.14
1984-85		0.02 $\pm$ 0.02	0.08 $\pm$ 0.06	0.10 $\pm$ 0.10	0.08 $\pm$ 0.06
1985-86			0.18 $\pm$ 0.10	0.05 $\pm$ 0.04	0.14 $\pm$ 0.07
Red drum					
1983-84	0.00	0.09 $\pm$ 0.09	0.00	0.00	0.01 $\pm$ 0.01
1984-85		0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00
Red snapper					
1983-84	0.00	0.00	0.00	0.48 $\pm$ 0.44	0.16 $\pm$ 0.14
1984-85		0.00	0.00	0.00	0.00
1985-86			0.00	0.14 $\pm$ 0.11	0.04 $\pm$ 0.03
Sand seatrout					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00
Spanish mackerel					
1983-84	0.00	0.00	0.02 $\pm$ 0.02	0.00	0.01 $\pm$ 0.01
1984-85		0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86			0.00	0.00	0.00
Spotted seatrout					
1983-84	0.00	0.25 $\pm$ 0.24	0.00	0.00	0.02 $\pm$ 0.01
1984-85		1.59 $\pm$ 1.59	0.00	0.00	0.02 $\pm$ 0.02
1985-86			0.00	0.00	0.00

Table I.6. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00
Other species					
1983-84	0.00	0.32	0.02 ± 0.02	0.03 ± 0.03	0.05
1984-85		0.00	0.02 ± 0.02	0.16 ± 0.16	0.07 ± 0.06
1985-86			0.06 ± 0.04	0.21 ± 0.18	0.10 ± 0.06
All species combined <sup>a</sup>					
1983-84	0.00	0.66 ± 0.64	0.38 ± 0.32	0.57 ± 0.52	0.45 ± 0.27
1984-85		1.62 ± 1.60	0.10 ± 0.08	0.27 ± 0.26	0.18 ± 0.12
1985-86			0.27 ± 0.15	0.40 ± 0.26	0.30 ± 0.14

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table I.7. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the high-use season by species, day type and area (1983-1985). Blank = no fishermen interviewed.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Year					
Day type					
Atlantic croaker					
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend			0.00		0.00
Weekday		0.00	0.00	0.00	0.00
1985					
Weekend			0.00	0.00	0.00
Weekday			0.00	0.00	0.00
Atlantic sharpnose shark					
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend			0.00		0.00
Weekday		0.00	0.00	0.00	0.00
1985					
Weekend			0.01 $\pm$ 0.01	0.00	0.01 $\pm$ 0.01
Weekday			0.03 $\pm$ 0.03	0.00	0.02 $\pm$ 0.02
Cobia					
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1984					
Weekend			0.00		0.00
Weekday		0.00	0.00	0.00	0.00
1985					
Weekend			0.00	0.00	0.00
Weekday			0.00	0.00	0.00
King mackerel					
1983					
Weekend	0.00	0.00	0.34 $\pm$ 0.34	0.11 $\pm$ 0.11	0.24 $\pm$ 0.22
Weekday		0.00	0.34 $\pm$ 0.33	0.04 $\pm$ 0.04	0.18 $\pm$ 0.16
1984					
Weekend			0.02 $\pm$ 0.02		0.02 $\pm$ 0.02
Weekday		0.02 $\pm$ 0.02	0.10 $\pm$ 0.09	0.03 $\pm$ 0.03	0.09 $\pm$ 0.08
1985					
Weekend			0.17 $\pm$ 0.14	0.01 $\pm$ 0.01	0.15 $\pm$ 0.12
Weekday			0.19 $\pm$ 0.13	0.06 $\pm$ 0.05	0.14 $\pm$ 0.09

Table I.7. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red drum						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.10 ± 0.10	0.00	0.00	0.01 ± 0.01
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00
	1985					
	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
Red snapper						
	1983					
	Weekend	0.00	0.00	0.00	1.38 ± 1.36	0.37 ± 0.35
	Weekday		0.00	0.00	0.04 ± 0.04	0.02 ± 0.01
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00
	1985					
	Weekend			0.00	0.30 ± 0.30	0.04 ± 0.04
	Weekday			0.00	0.11 ± 0.11	0.04 ± 0.04
Sand seatrout						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00
	1985					
	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
Spanish mackerel						
	1983					
	Weekend	0.00	0.00	0.01 ± 0.01	0.00	<.01 ± <.01
	Weekday		0.00	0.03 ± 0.03	0.00	0.01 ± 0.01
	1984					
	Weekend			0.00		
	Weekday		0.00	0.00	0.03 ± 0.03	<.01 ± <.01
	1985					
	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00

Table I.7. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout							
	1983						
		Weekend	0.00	0.20 ± 0.20	0.00	0.00	<.01 ± <.01
		Weekday		0.25 ± 0.25	0.00	0.00	0.03 ± 0.03
	1984						
		Weekend			0.00		0.00
		Weekday		1.59 ± 1.59	0.00	0.00	0.04 ± 0.04
	1985						
		Weekend			0.00	0.00	0.00
		Weekday			0.00	0.00	0.00
Vermilion snapper							
	1983						
		Weekend	0.00	0.00	0.00	0.00	0.00
		Weekday		0.00	0.00	0.00	0.00
	1984						
		Weekend			0.00		0.00
		Weekday		0.00	0.00	0.00	0.00
	1985						
		Weekend			0.00	0.00	0.00
		Weekday			0.00	0.00	0.00
Other species							
	1983						
		Weekend	0.00	0.27 ± 0.27	0.04 ± 0.04	0.08 ± 0.08	0.05 ± 0.04
		Weekday		0.32	0.00	0.01 ± 0.01	0.04
	1984						
		Weekend			0.06 ± 0.06		0.06 ± 0.06
		Weekday		0.00	0.01 ± 0.01	0.06 ± 0.06	0.02 ± 0.01
	1985						
		Weekend			0.05 ± 0.04	0.91 ± 0.91	0.16 ± 0.14
		Weekday			0.07 ± 0.05	0.07 ± 0.06	0.07 ± 0.04
All species combined <sup>a</sup>							
	1983						
		Weekend	0.00	0.47 ± 0.47	0.39 ± 0.39	1.58 ± 1.54	0.66 ± 0.55
		Weekday		0.67 ± 0.66	0.37 ± 0.36	0.09 ± 0.08	0.30 ± 0.23
	1984						
		Weekend			0.08 ± 0.08		0.08 ± 0.08
		Weekday		1.62 ± 1.60	0.12 ± 0.10	0.12 ± 0.12	0.15 ± 0.12
	1985						
		Weekend			0.23 ± 0.19	1.21 ± 1.13	0.36 ± 0.26
		Weekday			0.30 ± 0.21	0.23 ± 0.17	0.27 ± 0.15

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table I.8. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the low-use season by species, day type and area (1983-1985). Blank = no fishermen interviewed.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Atlantic croaker						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				0.00
		Weekday				0.00
	1985-86					
		Weekend				
		Weekday				
Atlantic sharpnose shark						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				0.00
		Weekday				0.00
	1985-86					
		Weekend				
		Weekday				
Cobia						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				0.00
		Weekday				0.00
	1985-86					
		Weekend				
		Weekday				
King mackerel						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				0.11 $\pm$ 0.11
		Weekday				0.11 $\pm$ 0.11
	1985-86					
		Weekend				
		Weekday				

Table I.8. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red drum						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Red snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Sand seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Spanish mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
	1985-86					
	Weekend					
	Weekday					



Table I.8. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Vermilion snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Other species						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.18 ± 0.18	0.18 ± 0.18
	Weekday					
	1985-86					
	Weekend					
	Weekday					
All species combined <sup>a</sup>						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.30 ± 0.30	0.30 ± 0.30
	Weekday					
	1985-86					
	Weekend					
	Weekday					

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table I.9. Mean catch rates of fish (No./man-h)  $\pm$  SE caught by party-boat fishermen in the Gulf of Mexico (TTS and FCZ combined) off Texas during June-August by species and area (1979-1985)<sup>a</sup>. Number in parenthesis indicates number of interviews. ND = no data.

Area Year	Atlantic b						All species combined
	King mackerel	Red snapper	Spanish mackerel	Cobia	sharpnose shark	Other	
<b>Galveston</b>							
1979 ( 5)	0.17 $\pm$ 0.08	0.05 $\pm$ 0.02	0.20 $\pm$ 0.14	<.01	0.00	0.04	0.45 $\pm$ 0.10
1981 (26)	0.28 $\pm$ 0.04	0.14 $\pm$ 0.07	0.04 $\pm$ 0.04	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.23	0.72 $\pm$ 0.11
1982 (21)	0.27 $\pm$ 0.06	0.25 $\pm$ 0.20	0.01 $\pm$ 0.01	0.04 $\pm$ 0.01	<.01	0.10	0.66 $\pm$ 0.19
1983 ( 1)	0.32 $\pm$ 0.32	0.00	0.06 $\pm$ 0.06	0.00	0.00	0.03	0.41 $\pm$ 0.41
1984 ( 0)	ND	ND	ND	ND	ND	ND	ND
1985 ( 1)	0.09 $\pm$ 0.09	0.15 $\pm$ 0.15	0.02 $\pm$ 0.02	0.00	0.00	0.06	0.32 $\pm$ 0.32
<b>Matagorda</b>							
1979 (0)	ND	ND	ND	ND	ND	ND	ND
1981 (0)	ND	ND	ND	ND	ND	ND	ND
1982 (7)	0.20 $\pm$ 0.07	0.04 $\pm$ 0.03	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.06	0.48 $\pm$ 0.14
1983 (5)	0.01 $\pm$ 0.01	<.01	0.00	0.00	0.00	0.60	0.61 $\pm$ 0.58
1984 (3)	0.04 $\pm$ 0.04	0.00	0.00	0.00	0.00	0.50	0.54 $\pm$ 0.50
1985 (0)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Corpus Christi</b>							
1979 (11)	0.29 $\pm$ 0.07	0.00	0.00	0.01 $\pm$ 0.01	<.01	0.08	0.37 $\pm$ 0.09
1981 (24)	0.41 $\pm$ 0.07	<.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0.06 $\pm$ 0.03	0.05	0.56 $\pm$ 0.09
1982 (33)	0.20 $\pm$ 0.03	0.02 $\pm$ 0.02	<.01	0.01 $\pm$ 0.01	0.02 $\pm$ 0.01	0.03	0.28 $\pm$ 0.04
1983 (23)	0.18 $\pm$ 0.14	0.00	<.01	0.00	<.01	0.14	0.33 $\pm$ 0.23
1984 (24)	0.18 $\pm$ 0.10	0.00	0.00	<.01	0.00	0.04	0.22 $\pm$ 0.22
1985 (17)	0.15 $\pm$ 0.08	0.17 $\pm$ 0.15	0.00	<.01 $\pm$ <.01	0.02 $\pm$ 0.01	0.07	0.41 $\pm$ 0.22
<b>Lower Laguna Madre</b>							
1979 ( 0)	ND	ND	ND	ND	ND	ND	ND
1981 (10)	0.42 $\pm$ 0.15	0.28 $\pm$ 0.28	<.01	0.00	0.02 $\pm$ 0.01	0.08	0.94 $\pm$ 0.31
1982 (11)	0.38 $\pm$ 0.17	0.56 $\pm$ 0.38	0.00	0.02 $\pm$ 0.01	0.00	0.09	1.05 $\pm$ 0.36
1983 (14)	0.04 $\pm$ 0.03	0.21 $\pm$ 0.16	0.00	0.00	0.00	0.06	0.30 $\pm$ 0.21
1984 ( 5)	0.00	0.00	0.00	0.00	0.00	0.10	0.10 $\pm$ 0.09
1985 (14)	0.03 $\pm$ 0.02	0.08 $\pm$ 0.06	0.00	0.00	0.00	0.42	0.53 $\pm$ 0.31

Table I.9. (Cont'd.)

Area Year	Atlantic <sup>b</sup>						All species combined
	King mackerel	Red snapper	Spanish mackerel	Cobia	Atlantic sharpnose shark	Other	
Coastwide							
1979 (16) <sup>c</sup>	0.25 ± 0.06	0.02 ± 0.01	0.09 ± 0.04	0.01 ± 0.01	<.01	0.06	0.41 ± 0.05
1981 (60) <sup>d</sup>	0.37 ± 0.04	0.11 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.03 ± 0.01	0.14	0.69 ± 0.04
1982 (72)	0.25 ± 0.03	0.18 ± 0.05	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.07	0.53 ± 0.05
1983 (43)	0.15 ± 0.10	0.03 ± 0.02	<.01	0.00	<.01	0.14	0.34 ± 0.19
1984 (32) <sup>e</sup>	0.16 ± 0.08	0.00	0.00	<.01	0.00	0.06	0.21 ± 0.10
1985 (32)	0.11 ± 0.05	0.14 ± 0.10	<.01	<.01	0.01 ± 0.01	0.18	0.44 ± 0.17

<sup>a</sup>1979-1982 data from McEachron (1984).

<sup>b</sup>Includes all species of shark retained during 1979-82.

<sup>c</sup>Galveston/Freeport and Aransas/Corpus Christi/upper Laguna Madre only.

<sup>d</sup>Galveston/Freeport, Aransas/Corpus Christi/upper Laguna Madre and lower Laguna Madre only.

<sup>e</sup>Matagorda/San Antonio, Aransas/Corpus Christi/upper Laguna Madre and lower Laguna Madre only.

Table I.10. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in the TTS by species and area (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Area			Coastwide
	Galveston	Matagorda	Corpus Christi Lower Laguna Madre	
Atlantic croaker				
1983-84				
1984-85				
1985-86				
Atlantic sharpnose shark				
1983-84				
1984-85				
1985-86			5.69 $\pm$ 0.57	5.69 $\pm$ 0.57
Cobia				
1983-84			19.50	19.50
1984-85				
1985-86				
King mackerel				
1983-84			9.04 $\pm$ 0.76	9.10 9.05 $\pm$ 0.72
1984-85			5.46 $\pm$ 0.28	6.59 5.90 $\pm$ 2.75
1985-86			8.55 $\pm$ 0.46	10.49 8.73 $\pm$ 1.40
Red drum				
1983-84		2.97		2.97
1984-85				
1985-86				
Red snapper				
1983-84			0.31 $\pm$ 0.01	0.31 $\pm$ 0.01
1984-85				
1985-86			1.00	1.00
Sand seatrout				
1983-84				
1984-85				
1985-86				
Spanish mackerel				
1983-84			1.55	1.55
1984-85				
1985-86				
Spotted seatrout				
1983-84		0.95 $\pm$ 0.03		0.95 $\pm$ 0.03
1984-85		1.56		1.56
1985-86				

Table I.10. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1983-84					
1984-85					
1985-86					
All species combined <sup>a</sup>					
1983-84		1.02 ± 0.14	8.86 ± 0.93	4.21 ± 1.39	5.96 ± 1.03
1984-85		1.50	5.43 ± 0.25	6.50	5.49 ± 3.54
1985-86			7.83 ± 0.57	1.60	5.55 ± 0.94

<sup>a</sup>Includes "other" species.

Table I.11. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the high-use season by species, day type and area (1983-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Area					
	Year	Galveston	Matagorda	Corpus	Lower	Coastwide
				Christi	Laguna Madre	
Day type						
Atlantic croaker						
1983						
Weekend						
Weekday						
1984						
Weekend						
Weekday						
1985						
Weekend						
Weekday						
Atlantic sharpnose shark						
1983						
Weekend						
Weekday						
1984						
Weekend						
Weekday						
1985						
Weekend				5.66		5.66
Weekday				5.70 $\pm$ 0.98		5.70 $\pm$ 0.98
Cobia						
1983						
Weekend						
Weekday				19.50		19.50
1984						
Weekend						
Weekday						
1985						
Weekend						
Weekday						
King mackerel						
1983						
Weekend				8.30	7.49	8.17
Weekday				10.09 $\pm$ 1.32	9.39 $\pm$ 0.51	10.02 $\pm$ 1.24
1984						
Weekend						
Weekday				5.46 $\pm$ 0.28		5.46 $\pm$ 0.28
1985						
Weekend				6.18		6.18
Weekday				8.60 $\pm$ 0.46	10.49	8.88 $\pm$ 1.94

Table I.11. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Red drum						
	1983					
		Weekend				
		Weekday		2.97		2.97
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
Red snapper						
	1983					
		Weekend			0.31	0.31
		Weekday			0.32	0.32
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday			1.00	1.00
Sand seatrout						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
Spanish mackerel						
	1983					
		Weekend				
		Weekday		1.55		1.55
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				

Table I.11. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout							
	1983						
		Weekend		0.97		0.97	
		Weekday		0.95 ± 0.03		0.95 ± 0.03	
	1984						
		Weekend					
		Weekday		1.56		1.56	
	1985						
		Weekend					
		Weekday					
Vermilion snapper							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
	1985						
		Weekend					
		Weekday					
All species combined <sup>a</sup>							
	1983						
		Weekend		0.90	8.20	2.10	3.87 ± 3.87
		Weekday		1.04 ± 0.17	9.84 ± 2.30	5.77 ± 1.84	6.54 ± 1.57
	1984						
		Weekend					
		Weekday		1.50	5.43 ± 0.25		4.29 ± 0.61
	1985						
		Weekend			5.70		5.70
		Weekday		8.00 ± 0.52	1.60		6.01 ± 0.86

<sup>a</sup>Includes "other" species.



Table I.12. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the low-use season by species, day type and area (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
Atlantic sharpnose shark						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
Cobia						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
King mackerel						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend					6.50	6.50
Weekday						
1985-86						
Weekend						
Weekday						

Table I.12. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red drum						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Red snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Sand seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Spanish mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					

Table I.12. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
Vermilion snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
All species combined <sup>a</sup>						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				6.50	6.50
	Weekday					
	1985-86					
	Weekend					
	Weekday					

<sup>a</sup>Includes "other" species.

Table I.13. Annual mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in the TTS by species and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84					
1984-85					
1985-86					
Atlantic sharpnose shark					
1983-84					
1984-85					
1985-86			925 $\pm$ 39		925 $\pm$ 38
Cobia					
1983-84			1292		1292
1984-85					
1985-86					
King mackerel					
1983-84			984 $\pm$ 23	990 $\pm$ 15	985 $\pm$ 20
1984-85			840 $\pm$ 11	896	860 $\pm$ 257
1985-86			973 $\pm$ 19	1045	980 $\pm$ 115
Red drum					
1983-84		651			651
1984-85					
1985-86					
Red snapper					
1983-84				287 $\pm$ 4	287 $\pm$ 4
1984-85					
1985-86				392	392
Sand seatrout					
1983-84					
1984-85					
1985-86					
Spanish mackerel					
1983-84			674		674
1984-85					
1985-86					
Spotted seatrout					
1983-84		464 $\pm$ 5			464 $\pm$ 5
1984-85		547			547
1985-86					

Table I.13. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1983-84					
1984-85					
1985-86					
All species combined <sup>a</sup>					
1983-84		466 ± 9	958 ± 35	561 ± 86	731 ± 37
1984-85		547	855 ± 16	782	781 ± 310
1985-86			868 ± 73	475 ± 60	724 ± 68

<sup>a</sup>Includes "other" species.

Table I.14. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the high-use season by species, day type and area (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide
Atlantic croaker						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
Atlantic sharpnose shark						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend		935		935
		Weekday		921 $\pm$ 68		921 $\pm$ 68
Cobia						
	1983					
		Weekend				
		Weekday		1292		1292
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
King mackerel						
	1983					
		Weekend		963	935	959 $\pm$ 855
		Weekday		1015 $\pm$ 45	1001 $\pm$ 18	1014 $\pm$ 39
	1984					
		Weekend				
		Weekday		840 $\pm$ 11		840 $\pm$ 11
	1985					
		Weekend		881		881
		Weekday		975 $\pm$ 19	1045	985 $\pm$ 170

Table I.14. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red drum						
	1983					
	Weekend					
	Weekday		651			651
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					
Red snapper						
	1983					
	Weekend				283	283
	Weekday				291	291
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday				392	392
Sand seatrout						
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					
Spanish mackerel						
	1983			--		
	Weekend					
	Weekday			674		674
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					

Table I.14. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Spotted seatrout						
	1983					
		Weekend		468		468
		Weekday	464 ±	6		464 ± 6
	1984					
		Weekend				
		Weekday		547		547
	1985					
		Weekend				
		Weekday				
Vermilion snapper						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
All species combined <sup>a</sup>						
	1983					
		Weekend	523 ± 98	930 ± 330	431	610 ± 373
		Weekday	460 ± 9	1001 ± 78	658 ± 30	809 ± 48
	1984					
		Weekend		1086		1086
		Weekday	547	849 ± 10		762 ± 97
	1985					
		Weekend		642 ± 162		642 ± 162
		Weekday		930 ± 230	475 ± 60	789 ± 34

<sup>a</sup>Includes "other" species.



Table I.15. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in the TTS during the low-use season by species, day type and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Area				
	Year	Galveston	Matagorda	Corpus	Lower
	Day type			Christi	Laguna Madre
Atlantic croaker					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Atlantic sharpnose shark					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Cobia					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
King mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				896	896
Weekday					
1985-86					
Weekend					
Weekday					

Table I.15. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red drum						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
Red snapper						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
Sand seatrout						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
Spanish mackerel						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						

Table I.15. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Vermilion snapper					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				782 ± 782	782 ± 782
Weekday					
1985-86					
Weekend					
Weekday					

<sup>a</sup>Includes "other" species.

Table I.16. Percent composition of "other" species caught by party-boat fishermen in the TTS by area, season and day type (1983-1986).

Year Season Day type	Common name	Scientific name	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1983-84 High use Weekend	Atlantic bonito	<u>Sarda sarda</u>				55.56	26.32
	Blue runner	<u>Caranx crysos</u>				11.11	5.26
	Crevalle jack	<u>Caranx hippos</u>			16.67	33.33	21.05
	Little tunny Sharks sp. Blacktip shark Requiem sharks	<u>Euthynnus alletteratus</u>  <u>Carcharhinus limbatus</u> <u>Family Carcharhinidae</u>		100.00	33.33	50.00	15.79
Weekday	Atlantic bonito	<u>Sarda sarda</u>				75.00	21.43
	Black drum	<u>Pogonias cromis</u>		20.00			14.29
	Crevalle jack	<u>Caranx hippos</u>				25.00	7.14
	Gulf kingfish	<u>Menticirrhus littoralis</u>		80.00			57.14
1984-85 High use Weekend	Crevalle jack	<u>Caranx hippos</u>			42.86		42.86
	Little tunny Sharks sp. Blacktip shark	<u>Euthynnus alletteratus</u>  <u>Carcharhinus limbatus</u>			42.86	14.29	14.29
	Crevalle jack	<u>Caranx hippos</u>			28.57		22.22
	Little tunny Sharks sp. Blacktip shark	<u>Euthynnus alletteratus</u>  <u>Carcharhinus limbatus</u>			100.00		22.22
Low use Weekend	Crevalle jack	<u>Caranx hippos</u>				20.00	20.00
	Little tunny	<u>Euthynnus alletteratus</u>				80.00	80.00

Table I.16. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1985-86	High use	Weekend	Blue runner	<u>Caranx crysos</u>				36.36	26.67
			Dolphins sp.	Family <u>Coryphaenidae</u>			50.00		13.33
			Dolphin	<u>Coryphaena hippurus</u>			50.00		60.00
			Little tunny	<u>Euthynnus alletteratus</u>				63.64	
		Weekday	Almaco jack	<u>Seriola rivirolana</u>			5.26		3.23
			Blue runner	<u>Caranx crysos</u>				8.33	3.23
			Crevalle jack	<u>Caranx hippos</u>			42.11	8.33	29.03
			Dolphins sp.	Family <u>Coryphaenidae</u>					
			Dolphin	<u>Coryphaena hippurus</u>			47.37	8.33	32.26
			Little tunny	<u>Euthynnus alletteratus</u>				66.67	25.81
			Sea basses sp.	Family <u>Serranidae</u>					
			Scamp	<u>Mycteroperca bonaci</u>				8.33	3.23
			Sharks sp.						
			Requiem sharks	Family <u>Carcharhinidae</u>			5.26		3.23

Table I.17. Percent composition of the annual residential origin of party-boat fishermen-trips in the TTS by area (1983-86). Blank = no fishermen interviewed.

Area Year	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1983-84	100	0	0	0
1984-85				
1985-86				
Matagorda				
1983-84	31	0	69	0
1984-85	100	0	0	0
1985-86				
Corpus Christi				
1983-84	0	6	84	10
1984-85	8	8	56	28
1985-86	0	20	76	4
Lower Laguna Madre				
1983-84	15	15	42	27
1984-85	19	0	31	50
1985-86	46	4	36	14
Coastwide				
1983-84	14	8	64	14
1984-85	22	5	43	30
1985-86	16	14	62	8

Table I.18. Percent composition of the residential origin of party-boat fishermen-trips in the TTS during the high-use season by area and day type (1983-1985). Blank = no fishermen interviewed.

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries
Galveston						
1983	100	0	0			
1984						
1985						
Matagorda						
1983	0	100	0	40	0	60
1984				100	0	0
1985						
Corpus Christi						
1983	0	11	89	0	0	75
1984	5	16	79	10	0	35
1985	0	14	86	0	22	73
Lower Laguna Madre						
1983	9	36	55	20	0	33
1984				20	0	0
1985	29	14	57	52	0	29
Coastwide						
1983	9	17	74	19	0	54
1984	5	16	79	32	0	18
1985	10	14	76	19	14	57

Table I.19. Percent composition of the residential origin of party-boat fishermen-trips in the TTS during the low-use season by area and day type (1983-1986). Blank = no fishermen interviewed.

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries
Galveston						
1983-84						
1984-85						
1985-86						
Matagorda						
1983-84						
1984-85						
1985-86						
Corpus Christi						
1983-84						
1984-85						
1985-86						
Lower Laguna Madre						
1983-84						
1984-85	17	0	83			0
1985-86						
Coastwide						
1983-84						
1984-85	17	0	83			0
1985-86						



Table I.20. Mean fishing-party size (No. of fishermen) and mean trip length (h) for party-boat fishermen in the TTS by area, season and day type (1983-1986). Blank = no fishermen interviewed.

Area Year	Mean fishing-party size			Mean trip length		
	High-use season		Low-use season	High-use season		Low-use season
	Weekend	Weekday	Weekend	Weekend	Weekday	Annual
Galveston						
1983-84	2.0				7.0	7.0
1984-85						
1985-86						
Matagorda						
1983-84	3.0	3.3			5.0	4.5
1984-85		4.0			3.0	3.0
1985-86						
Corpus Christi						
1983-84	3.8	3.0			8.0	7.5
1984-85	4.8	4.0			5.8	7.5
1985-86	4.7	4.1			8.5	6.9
Lower Laguna Madre						
1983-84	3.7	3.8			7.3	6.2
1984-85		5.0	6.0			4.5
1985-86	3.5	4.2			5.5	6.0
Coastwide						
1983-84	3.5	3.4			7.4	6.2
1984-85	4.5	4.2	6.0		5.8	5.4
1985-86	4.2	4.1			7.3	6.6

Appendix J: Estimates for private-boat fishing in the Fishery Conservation Zone (FCZ) off Texas.

Table J.1. Number of days surveyed and number of private-boat fishermen interviewed ( ) in the FCZ by season, day type and area (1982-1986). WE = weekend days. WD = weekdays.

Year Season Day type	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
1982-83					
High use					
WE	31 (136)	54 (351)	54 (376)	23 (66)	162 (929)
WD	66 (27)	116 (152)	122 (236)	55 (39)	359 (454)
Low use					
WE	12 (0)	24 (17)	24 (3)	12 (0)	72 (20)
WD	24 (6)	48 (17)	48 (5)	24 (0)	144 (28)
Annual	133 (169)	242 (537)	248 (620)	114 (105)	737 (1431)
1983-84					
High use					
WE	32 (101)	45 (198)	45 (233)	31 (58)	153 (590)
WD	63 (21)	84 (96)	96 (88)	66 (17)	309 (222)
Low use					
WE	12 (0)	24 (62)	22 (0)	12 (3)	70 (65)
WD	24 (0)	42 (10)	43 (0)	24 (0)	133 (10)
Annual	131 (122)	195 (366)	206 (321)	133 (78)	665 (887)
1984-85					
High use					
WE	31 (10)	40 (322)	41 (467)	31 (124)	143 (923)
WD	65 (24)	87 (100)	95 (289)	66 (44)	313 (457)
Low use					
WE	12 (0)	20 (22)	21 (0)	12 (8)	66 (30)
WD	24 (0)	41 (1)	44 (6)	24 (0)	133 (7)
Annual	132 (34)	189 (445)	201 (762)	133 (176)	655 (1417)
1985-86					
High use					
WE	31 (308)	41 (381)	41 (534)	31 (64)	144 (1287)
WD	66 (45)	87 (111)	99 (153)	66 (7)	318 (316)
Low use					
WE	12 (22)	19 (17)	23 (4)	12 (0)	66 (43)
WD	24 (0)	43 (2)	43 (0)	24 (3)	134 (5)
Annual	133 (375)	190 (511)	206 (691)	133 (74)	662 (1651)

Table J.2. Pressure estimates (man-h x 1000)  $\pm$  1 SE for private-boat fishermen in the FCZ by season, day type and area (1982-1986).

Area Year	High-use season		Low-use season		Annual <sup>a</sup>
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1982-83	44.9 $\pm$ 29.7	41.6 $\pm$ 22.8	0.0	5.4 $\pm$ 5.4	91.9 $\pm$ 37.8
1983-84	31.6 $\pm$ 13.2	10.0 $\pm$ 5.3	0.0	0.0	41.6 $\pm$ 14.3
1984-85	24.2 $\pm$ 10.0	6.2 $\pm$ 4.8	0.0	0.0	30.5 $\pm$ 11.1
1985-86	81.4 $\pm$ 36.8	25.4 $\pm$ 16.0	7.7 $\pm$ 5.3	0.0	114.5 $\pm$ 40.4
Matagorda					
1982-83	42.2 $\pm$ 5.6	23.0 $\pm$ 4.1	2.9 $\pm$ 1.0	1.6 $\pm$ 0.4	69.7 $\pm$ 6.9
1983-84	17.5 $\pm$ 7.7	4.7 $\pm$ 1.5	3.8 $\pm$ 1.9	1.0 $\pm$ 0.9	27.1 $\pm$ 8.3
1984-85	12.3 $\pm$ 3.1	11.5 $\pm$ 3.5	6.2 $\pm$ 4.0	0.1 $\pm$ 0.1	30.0 $\pm$ 6.2
1985-86	25.2 $\pm$ 8.3	8.7 $\pm$ 3.4	3.6 $\pm$ 3.4	1.0 $\pm$ 1.0	38.5 $\pm$ 9.7
Corpus Christi					
1982-83	50.0 $\pm$ 7.5	24.8 $\pm$ 3.0	1.9 $\pm$ 1.0	2.7 $\pm$ 1.0	79.4 $\pm$ 8.2
1983-84	81.8 $\pm$ 39.3	12.0 $\pm$ 8.0	0.0	0.0	93.8 $\pm$ 40.2
1984-85	49.5 $\pm$ 18.4	35.1 $\pm$ 11.5	0.0	0.0	84.6 $\pm$ 21.7
1985-86	83.2 $\pm$ 17.0	19.6 $\pm$ 6.2	0.4 $\pm$ 0.4	0.0	103.2 $\pm$ 18.1
Lower Laguna Madre					
1982-83	8.3 $\pm$ 2.8	9.5 $\pm$ 4.2	0.0	0.0	17.9 $\pm$ 5.1
1983-84	11.3 $\pm$ 6.2	5.5 $\pm$ 4.6	18.6 $\pm$ 18.6	0.0	35.4 $\pm$ 20.1
1984-85	7.6 $\pm$ 3.2	13.3 $\pm$ 8.0	3.6 $\pm$ 2.8	0.0	24.5 $\pm$ 9.0
1985-86	8.5 $\pm$ 4.2	1.1 $\pm$ 0.9	0.0	1.7 $\pm$ 1.7	11.3 $\pm$ 4.6
Coastwide <sup>a</sup>					
1982-83	145.8 $\pm$ 35.0	100.0 $\pm$ 25.2	4.7 $\pm$ 2.8	9.7 $\pm$ 5.8	260.3 $\pm$ 43.6
1983-84	142.3 $\pm$ 42.7	32.2 $\pm$ 10.8	22.4 $\pm$ 18.7	1.0 $\pm$ 0.9	197.9 $\pm$ 47.8
1984-85	93.7 $\pm$ 21.4	66.2 $\pm$ 15.2	9.8 $\pm$ 4.9	0.1 $\pm$ 0.1	169.7 $\pm$ 26.7
1985-86	198.2 $\pm$ 41.6	54.8 $\pm$ 17.5	11.7 $\pm$ 6.3	2.7 $\pm$ 2.0	267.5 $\pm$ 45.6

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table J.3. Annual estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by private-boat fishermen in the FCZ by species and area (1982-1986).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1983-83	0.1 $\pm$ 0.1	0.1 $\pm$ <.1	0.3 $\pm$ 0.1	0.3 $\pm$ 0.3	0.8 $\pm$ 0.5
1983-84	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.0	0.1 $\pm$ 0.1
1984-85	0.0	0.2 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1
1985-86	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
Atlantic sharpnose shark					
1982-83 <sup>b</sup>					
1983-84	0.2 $\pm$ 0.1	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.3 $\pm$ 0.1
1984-85	0.5 $\pm$ 0.3	<.1 $\pm$ <.1	<.1 $\pm$ <.1	1.6 $\pm$ 1.6	2.1 $\pm$ 1.6
1985-86	0.4 $\pm$ 0.4	0.2 $\pm$ 0.1	1.2 $\pm$ 0.5	0.0	1.8 $\pm$ 0.7
Cobia					
1982-83	0.1 $\pm$ 0.1	0.8 $\pm$ 0.2	0.2 $\pm$ <.1	<.1 $\pm$ <.1	1.1 $\pm$ 0.4
1983-84	0.4 $\pm$ 0.2	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.1 $\pm$ <.1	0.6 $\pm$ 0.3
1984-85	<.1 $\pm$ <.1	0.1 $\pm$ <.1	<.1 $\pm$ <.1	0.2 $\pm$ 0.2	0.3 $\pm$ 0.2
1985-86	0.2 $\pm$ 0.1	0.1 $\pm$ 0.1	0.3 $\pm$ 0.2	<.1 $\pm$ <.1	0.6 $\pm$ 0.2
King mackerel					
1982-83	5.2 $\pm$ 3.5	5.8 $\pm$ 0.7	3.7 $\pm$ 0.5	0.8 $\pm$ 0.4	15.5 $\pm$ 3.8
1983-84	1.2 $\pm$ 0.8	1.1 $\pm$ 0.4	7.6 $\pm$ 3.9	0.2 $\pm$ 0.1	10.1 $\pm$ 4.1
1984-85	0.9 $\pm$ 0.5	1.6 $\pm$ 0.5	6.3 $\pm$ 1.8	0.5 $\pm$ 0.2	9.3 $\pm$ 2.0
1985-86	5.0 $\pm$ 0.2	3.7 $\pm$ 2.0	4.6 $\pm$ 1.2	0.1 $\pm$ <.1	13.4 $\pm$ 3.2
Red drum					
1982-83	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
1983-84	0.0	0.1 $\pm$ <.1	0.0	0.0	0.1 $\pm$ <.1
1984-85	0.1 $\pm$ 0.1	0.1 $\pm$ 0.1	0.0	0.0	0.2 $\pm$ 0.1
1985-86	0.3 $\pm$ 0.3	<.1 $\pm$ <.1	0.0	0.0	0.3 $\pm$ 0.3
Red snapper					
1982-83	11.4 $\pm$ 4.6	15.2 $\pm$ 4.0	3.2 $\pm$ 0.6	8.9 $\pm$ 3.2	38.7 $\pm$ 9.5
1983-84	26.7 $\pm$ 17.1	8.8 $\pm$ 3.9	2.4 $\pm$ 1.5	8.5 $\pm$ 3.9	46.4 $\pm$ 18.1
1984-85	0.3 $\pm$ 0.2	5.8 $\pm$ 2.8	9.9 $\pm$ 5.6	4.8 $\pm$ 2.6	20.8 $\pm$ 6.7
1985-86	17.6 $\pm$ 13.1	2.5 $\pm$ 0.9	1.4 $\pm$ 0.8	2.0 $\pm$ 1.6	23.5 $\pm$ 13.2
Sand seatrout					
1982-83	33.8 $\pm$ 33.8	18.8 $\pm$ 6.9	0.6 $\pm$ 0.2	0.3 $\pm$ 0.3	53.6 $\pm$ 36.3
1983-84	0.3 $\pm$ 0.2	5.6 $\pm$ 2.9	0.0	<.1 $\pm$ <.1	5.9 $\pm$ 2.9
1984-85	1.7 $\pm$ 1.3	2.6 $\pm$ 1.0	0.1 $\pm$ 0.1	0.0	4.4 $\pm$ 1.7
1985-86	0.9 $\pm$ 0.6	2.7 $\pm$ 2.0	0.0	0.0	3.6 $\pm$ 2.1

Table J.3. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spanish mackerel					
1982-83	1.3 ± 0.8	0.2 ± 0.1	0.1 ± <.1	<.1 ± <.1	1.7 ± 0.9
1983-84	0.7 ± 0.5	0.1 ± 0.1	0.4 ± 0.3	<.1 ± <.1	1.2 ± 0.5
1984-85	0.5 ± 0.5	0.1 ± 0.1	0.1 ± 0.1	<.1 ± <.1	0.8 ± 0.5
1985-86	1.3 ± 0.8	0.3 ± 0.2	0.1 ± <.1	0.1 ± 0.1	1.8 ± 0.9
Spotted seatrout					
1982-83	0.1 ± 0.1	0.1 ± <.1	<.1 ± <.1	0.0	0.2 ± 0.2
1983-84	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
1985-86	<.1 ± <.1	0.1 ± <.1	<.1 ± <.1	0.0	0.1 ± 0.1
Vermilion snapper					
1982-83 <sup>b</sup>					
1983-84	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1
1984-85	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1
1985-86	0.0	0.0	0.0	0.0	0.0
Other species					
1982-83	3.7 ± 1.5	4.5 ± 0.8	4.1 ± 0.7	0.8 ± 0.3	13.1 ± 2.6
1983-84	8.6	1.7	3.7	2.7 ± 2.6	16.6
1984-85	3.4	7.0	2.9	3.0	16.2
1985-86	13.5	6.5	5.5	1.5 ± 1.1	27.0
All species combined <sup>a</sup>					
1982-83	55.7 ± 37.4	45.6 ± 8.2	12.2 ± 1.5	11.2 ± 3.7	124.8 ± 40.9
1983-84	38.2 ± 19.2	17.4 ± 5.7	14.2 ± 7.0	11.5 ± 4.8	81.3 ± 21.8
1984-85	7.3 ± 3.7	17.3 ± 5.8	16.6 ± 7.1	10.0 ± 3.8	51.2 ± 10.6
1985-86	39.2 ± 17.5	16.2 ± 4.7	13.1 ± 3.3	3.7 ± 2.4	72.1 ± 18.6

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table J.4. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1982-1985).

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1982					
Weekend	0.0	0.0	0.3 $\pm$ 0.1	0.0	0.3 $\pm$ 0.3
Weekday	0.0	0.1 $\pm$ <.1	0.0	0.3 $\pm$ 0.3	0.4 $\pm$ 0.4
1983					
Weekend	0.1 $\pm$ 0.1	0.0	0.0	0.0	0.1 $\pm$ 0.1
Weekday	0.0	0.0	0.0	0.0	0.0
1984					
Weekend	0.0	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1
Weekday	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
1985					
Weekend	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1
Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1982 <sup>b</sup>					
Weekend					
Weekday					
1983					
Weekend	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.2 $\pm$ 0.1
Weekday	0.1 $\pm$ 0.1	0.0	<.1 $\pm$ <.1	0.0	0.1 $\pm$ 0.1
1984					
Weekend	0.2 $\pm$ 0.2	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.2
Weekday	0.3 $\pm$ 0.3	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.0	0.3 $\pm$ 0.3
1985					
Weekend	0.4 $\pm$ 0.4	0.1 $\pm$ 0.1	1.1 $\pm$ 0.5	0.0	1.6 $\pm$ 0.6
Weekday	0.0	0.1 $\pm$ <.1	0.1 $\pm$ 0.1	0.0	0.2 $\pm$ 0.1
Cobia					
1982					
Weekend	0.1 $\pm$ 0.1	0.5 $\pm$ 0.2	0.2 $\pm$ <.1	<.1 $\pm$ <.1	0.8 $\pm$ 0.3
Weekday	0.0	0.2 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.3 $\pm$ 0.1
1983					
Weekend	0.2 $\pm$ 0.2	<.1 $\pm$ <.1	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.4 $\pm$ 0.2
Weekday	0.2 $\pm$ 0.2	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1	0.2 $\pm$ 0.2
1984					
Weekend	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1	0.1 $\pm$ <.1
Weekday	0.0	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.2	0.2 $\pm$ 0.2
1985					
Weekend	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.3 $\pm$ 0.2	<.1 $\pm$ <.1	0.4 $\pm$ 0.2
Weekday	0.1 $\pm$ 0.1	0.1 $\pm$ 0.1	<.1 $\pm$ <.1	0.0	0.2 $\pm$ 0.1

Table J.4. (Cont'd.)

Species	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>	
Year Day type						
King mackerel						
1982						
Weekend	1.6 ± 0.9	3.9 ± 0.6	2.0 ± 0.4	0.3 ± 0.1	7.7 ± 1.7	
Weekday	3.6 ± 3.3	2.0 ± 0.3	1.7 ± 0.3	0.5 ± 0.4	7.8 ± 3.5	
1983						
Weekend	1.1 ± 0.8	0.7 ± 0.3	5.1 ± 3.4	0.1 ± 0.1	7.1 ± 3.5	
Weekday	0.1 ± 0.1	0.4 ± 0.2	2.4 ± 2.0	0.1 ± <.1	3.0 ± 2.0	
1984						
Weekend	0.9 ± 0.5	0.7 ± 0.3	2.8 ± 1.1	0.3 ± 0.1	4.6 ± 1.2	
Weekday	<.1 ± <.1	0.6 ± 0.2	2.7 ± 1.1	0.2 ± 0.1	3.5 ± 1.1	
1985						
Weekend	2.4 ± 1.5	3.1 ± 2.0	3.3 ± 1.0	0.1 ± <.1	8.9 ± 2.7	
Weekday	2.6 ± 1.5	0.6 ± 0.2	1.3 ± 0.6	<.1 ± <.1	4.5 ± 1.7	
Red drum						
1982						
Weekend	0.0	0.0	0.0	0.0	0.0	
Weekday	0.0	0.0	0.0	0.0	0.0	
1983						
Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
1984						
Weekend	0.1 ± 0.1	0.1 ± <.1	0.0	0.0	0.1 ± 0.1	
Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
1985						
Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
Weekday	0.0	0.0	0.0	0.0	0.0	
Red snapper						
1982						
Weekend	3.6 ± 2.4	2.4 ± 0.5	2.2 ± 0.5	3.8 ± 1.9	12.0 ± 3.4	
Weekday	5.2 ± 3.0	3.8 ± 1.1	0.3 ± 0.1	5.0 ± 2.5	14.4 ± 4.5	
1983						
Weekend	16.1 ± 13.8	4.8 ± 3.6	2.3 ± 1.4	7.2 ± 3.9	30.4 ± 14.8	
Weekday	10.6 ± 10.2	1.7 ± 0.9	0.1 ± 0.1	1.3 ± 0.8	13.7 ± 10.3	
1984						
Weekend	0.3 ± 0.2	0.9 ± 0.4	1.4 ± 0.8	1.1 ± 0.6	3.7 ± 1.1	
Weekday	0.0	0.9 ± 0.4	7.0 ± 4.7	2.5 ± 2.3	10.4 ± 5.2	
1985						
Weekend	2.8 ± 2.0	1.5 ± 0.5	1.4 ± 0.8	0.1 ± 0.1	5.9 ± 2.2	
Weekday	<.1 ± <.1	0.3 ± 0.2	0.0	0.3 ± 0.3	0.7 ± 0.4	



Table J.4. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
	Day type					
Sand seatrout						
	1982					
	Weekend	0.0	15.0 ± 7.1	0.5 ± 0.2	0.0	15.5 ± 13.1
	Weekday	0.0	0.2 ± 0.1	0.1 ± <.1	0.3 ± 0.3	0.7 ± 0.4
	1983					
	Weekend	0.3 ± 0.2	0.4 ± 0.3	0.0	<.1 ± <.1	0.7 ± 0.3
	Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	1984					
	Weekend	1.7 ± 1.3	1.3 ± 0.7	0.1 ± 0.1	0.0	3.0 ± 1.5
	Weekday	0.0	1.3 ± 1.0	0.0	0.0	1.3 ± 1.0
	1985					
	Weekend	0.1 ± 0.1	2.0 ± 2.0	0.0	0.0	2.2 ± 1.9
	Weekday	0.6 ± 0.6	0.1 ± 0.1	0.0	0.0	0.7 ± 0.6
Spanish mackerel						
	1982					
	Weekend	0.7 ± 0.6	0.1 ± <.1	0.1 ± <.1	<.1 ± <.1	0.9 ± 0.6
	Weekday	0.6 ± 0.6	0.1 ± <.1	0.0	0.0	0.7 ± 0.6
	1983					
	Weekend	0.5 ± 0.4	0.1 ± 0.1	0.2 ± 0.2	<.1 ± <.1	0.8 ± 0.5
	Weekday	0.2 ± 0.2	<.1 ± <.1	0.2 ± 0.1	<.1 ± <.1	0.4 ± 0.2
	1984					
	Weekend	0.5 ± 0.5	<.1 ± <.1	0.1 ± <.1	0.0	0.7 ± 0.5
	Weekday	0.0	0.1 ± 0.1	<.1 ± <.1	<.1 ± <.1	0.1 ± 0.1
	1985					
	Weekend	1.1 ± 0.8	0.3 ± 0.2	0.1 ± <.1	0.1 ± 0.1	1.5 ± 0.8
	Weekday	0.2 ± 0.2	<.1 ± <.1	<.1 ± <.1	0.0	0.2 ± 0.2
Spotted seatrout						
	1982					
	Weekend	0.0	0.1 ± <.1	<.1 ± <.1	0.0	0.2 ± 0.1
	Weekday	0.1 ± 0.1	0.0	0.0	0.0	0.1 ± 0.1
	1983					
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	1984					
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985					
	Weekend	<.1 ± <.1	0.1 ± <.1	0.0	0.0	0.1 ± 0.1
	Weekday	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1

Table J.4. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
Vermilion snapper						
	1982 <sup>b</sup>					
	Weekend					
	Weekday					
	1983					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1
	1984					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1
	1985					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Other species						
	1982					
	Weekend	1.3 ± 0.7	2.5 ± 0.7	3.1 ± 0.7	0.3 ± 0.2	7.2 ± 2.1
	Weekday	2.2 ± 1.3	1.5 ± 0.4	0.6 ± 0.1	0.5 ± 0.3	4.8 ± 1.6
	1983					
	Weekend	7.3	0.6	3.4	0.1 ± <.1	11.4
	Weekday	1.2	0.4	0.3	2.6 ± 2.6	4.5
	1984					
	Weekend	3.0	1.1	1.1 ± 0.4	0.3	5.4
	Weekday	0.3	1.2 ± 0.8	1.4	2.5	5.4
	1985					
	Weekend	10.5	3.8	5.3	0.9 ± 0.8	20.5
	Weekday	0.6 ± 0.4	2.6 ± 1.4	0.2 ± 0.1	0.0	3.4 ± 1.5
All species combined <sup>a</sup>						
	1982					
	Weekend	7.3 ± 4.2	24.5 ± 7.3	8.4 ± 1.3	4.5 ± 2.0	44.6 ± 14.5
	Weekday	11.7 ± 5.8	8.0 ± 1.3	2.7 ± 0.4	6.8 ± 3.1	29.2 ± 7.1
	1983					
	Weekend	25.8 ± 15.5	6.6 ± 4.0	11.2 ± 6.7	7.4 ± 3.9	51.1 ± 17.8
	Weekday	12.5 ± 11.4	2.5 ± 1.0	3.0 ± 2.1	4.0 ± 2.7	22.0 ± 11.9
	1984					
	Weekend	6.6 ± 3.7	4.3 ± 1.3	5.4 ± 2.0	1.6 ± 0.7	18.0 ± 4.4
	Weekday	0.7 ± 0.6	4.1 ± 1.5	11.2 ± 5.7	5.5 ± 3.1	21.4 ± 6.7
	1985					
	Weekend	17.4 ± 8.6	11.0 ± 4.2	11.4 ± 3.2	1.1 ± 0.8	41.0 ± 10.1
	Weekday	4.2 ± 2.4	3.8 ± 1.6	1.7 ± 0.7	0.3 ± 0.3	9.9 ± 3.0

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table J.5. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1982-1986).

Species	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>	
Atlantic croaker						
1982-83						
Weekend	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
Weekday	0.1 $\pm$ 0.1	0.0	0.0	0.0	0.1 $\pm$ 0.1	0.1 $\pm$ 0.1
1983-84						
Weekend	0.0	<.1 $\pm$ <.1	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984-85						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985-86						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark						
1982-83 <sup>b</sup>						
Weekend						
Weekday						
1983-84						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984-85						
Weekend	0.0	0.0	0.0	1.6 $\pm$ 1.6	1.6 $\pm$ 1.6	1.6 $\pm$ 1.6
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985-86						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
Cobia						
1982-83						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1983-84						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984-85						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985-86						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0

Table J.5. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
King mackerel						
	1982-83					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Red drum						
	1982-83					
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday	0.0	0.0	0.0	0.0	0.0
	1983-84					
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	0.3 ± 0.3	<.1 ± <.1	0.0	0.0	0.3 ± 0.3
	Weekday	0.0	0.0	0.0	0.0	0.0
Red snapper						
	1982-83					
	Weekend	0.0	7.8 ± 3.6	0.7 ± 0.3	0.0	8.4 ± 7.2
	Weekday	2.6 ± 2.6	1.2 ± 0.3	0.0	0.0	3.8 ± 2.7
	1983-84					
	Weekend	0.0	1.9 ± 1.2	0.0	0.0	1.9 ± 1.2
	Weekday	0.0	0.5 ± 0.3	0.0	0.0	0.5 ± 0.3
	1984-85					
	Weekend	0.0	3.9 ± 2.7	0.0	1.1 ± 1.1	5.0 ± 2.9
	Weekday	0.0	0.0	0.0	0.0	0.0
	1985-86					
	Weekend	14.8 ± 12.9	0.6 ± 0.6	0.0	0.0	15.4 ± 12.9
	Weekday	0.0	0.0	0.0	1.6 ± 1.6	1.6 ± 1.6

Table J.5. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
	Day type					
Sand seatrout						
1982-83						
	Weekend	0.0	0.2 ± 0.1	0.0	0.0	0.2 ± 0.2
	Weekday	33.8 ± 33.8	3.4 ± 1.2	0.0	0.0	37.2 ± 33.9
1983-84						
	Weekend	0.0	3.2 ± 2.1	0.0	0.0	3.2 ± 2.1
	Weekday	0.0	2.0 ± 2.0	0.0	0.0	2.0 ± 2.0
1984-85						
	Weekend	0.0	0.3 ± 0.3	0.0	0.0	0.3 ± 0.3
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.2 ± 0.2	0.5 ± 0.5	0.0	0.0	0.7 ± 0.6
	Weekday	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
1982-83						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Spotted seatrout						
1982-83						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1985-86						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0

Table J.5. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Vermilion snapper					
1982-83 <sup>b</sup>					
Weekend					
Weekday					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Other species					
1982-83					
Weekend	0.0	0.2 ± 0.1	0.0	0.0	0.2 ± 0.2
Weekday	0.1 ± 0.1	0.4 ± 0.1	0.4 ± 0.2	0.0	0.9 ± 0.4
1983-84					
Weekend	0.0	0.4	0.0	0.0	0.4
Weekday	0.0	0.3 ± 0.2	0.0	0.0	0.3 ± 0.2
1984-85					
Weekend	0.0	3.9	0.0	0.3 ± 0.3	4.2
Weekday	0.0	0.6 ± 0.6	0.0	0.0	0.6 ± 0.6
1985-86					
Weekend	2.4	0.2	0.0	0.0	2.5
Weekday	0.0	0.0	0.0	0.7 ± 0.7	0.7 ± 0.7
All species combined <sup>a</sup>					
1982-83					
Weekend	0.0	8.3 ± 3.7	0.7 ± 0.3	0.0	8.9 ± 7.4
Weekday	36.7 ± 36.7	4.9 ± 1.4	0.4 ± 0.2	0.0	42.0 ± 36.8
1983-84					
Weekend	0.0	5.5 ± 3.0	0.0	0.0	5.5 ± 3.0
Weekday	0.0	2.8 ± 2.5	0.0	0.0	2.8 ± 2.5
1984-85					
Weekend	0.0	8.3 ± 5.4	0.0	2.9 ± 2.0	11.2 ± 5.8
Weekday	0.0	0.6 ± 0.6	0.0	0.0	0.6 ± 0.6
1985-86					
Weekend	17.6 ± 15.0	1.4 ± 1.3	0.0	0.0	19.0 ± 15.1
Weekday	0.0	0.0	0.0	2.2 ± 2.2	2.2 ± 2.2

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table J.6. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in the FCZ by species and area (1982-1986).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1982-83	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.02 $\pm$ 0.02	<.01 $\pm$ <.01
1983-84	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1984-85	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1985-86	0.00	0.00	0.00	0.00	0.00
Atlantic sharpnose shark					
1982-83 <sup>b</sup>					
1983-84	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1984-85	0.02 $\pm$ 0.01	0.01 $\pm$ 0.01	0.00	0.06 $\pm$ 0.06	0.01 $\pm$ 0.01
1985-86	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	0.01 $\pm$ <.01
Cobia					
1982-83	<.01 $\pm$ <.01	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1983-84	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1984-85	0.00	<.01 $\pm$ <.01	0.00	0.01 $\pm$ 0.01	<.01 $\pm$ <.01
1985-86	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
King mackerel					
1982-83	0.06 $\pm$ 0.04	0.08 $\pm$ 0.02	0.05 $\pm$ 0.01	0.04 $\pm$ 0.02	0.06 $\pm$ 0.02
1983-84	0.03 $\pm$ 0.02	0.04 $\pm$ 0.02	0.08 $\pm$ 0.05	<.01 $\pm$ <.01	0.01 $\pm$ <.01
1984-85	0.03 $\pm$ 0.02	0.05 $\pm$ 0.02	0.08 $\pm$ 0.03	0.02 $\pm$ 0.01	0.06 $\pm$ 0.01
1985-86	0.04 $\pm$ 0.02	0.10 $\pm$ 0.06	0.04 $\pm$ 0.01	0.01 $\pm$ <.01	0.05 $\pm$ 0.01
Red drum					
1982-83	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1983-84	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1984-85	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
1985-86	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
Red snapper					
1982-83	0.12 $\pm$ 0.07	0.22 $\pm$ 0.10	0.04 $\pm$ 0.02	0.50 $\pm$ 0.22	0.15 $\pm$ 0.04
1983-84	0.64 $\pm$ 0.44	0.32 $\pm$ 0.17	0.02 $\pm$ 0.02	0.24 $\pm$ 0.16	0.24 $\pm$ 0.10
1984-85	0.01 $\pm$ 0.01	0.19 $\pm$ 0.10	0.12 $\pm$ 0.07	0.19 $\pm$ 0.12	0.12 $\pm$ 0.04
1985-86	0.15 $\pm$ 0.12	0.06 $\pm$ 0.03	0.01 $\pm$ 0.01	0.18 $\pm$ 0.15	0.09 $\pm$ 0.05
Sand seatrout					
1982-83	0.37 $\pm$ 0.37	0.27 $\pm$ 0.16	0.01 $\pm$ 0.01	0.02 $\pm$ 0.02	0.21 $\pm$ 0.14
1983-84	0.01 $\pm$ <.01	0.21 $\pm$ 0.12	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1984-85	0.06 $\pm$ 0.05	0.08 $\pm$ 0.04	<.01 $\pm$ <.01	0.00	0.03 $\pm$ 0.01
1985-86	0.01 $\pm$ 0.01	0.07 $\pm$ 0.05	0.00	0.00	0.01 $\pm$ 0.01

Table J.6. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spanish mackerel					
1982-83	0.02 ± 0.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
1983-84	0.02 ± 0.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1984-85	0.02 ± 0.02	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1985-86	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01
Spotted seatrout					
1982-83	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1985-86	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
Vermilion snapper					
1982-83 <sup>b</sup>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85	0.00	0.00	<.01 ± <.01	0.00	<.01 ± <.01
1984-85	0.00	0.00	0.00	0.00	0.00
Other species					
1982-83	0.04 ± 0.02	0.06 ± 0.02	0.05 ± 0.02	0.05 ± 0.02	0.05 ± 0.01
1983-84	0.21	0.06	0.04	0.08 ± 0.07	0.08
1984-85	0.12	0.23	0.03	0.12	0.10
1985-86	0.12	0.17	0.05 ± 0.02	0.14 ± 0.10	0.10
All species combined <sup>a</sup>					
1982-83	0.61 ± 0.45	0.65 ± 0.22	0.15 ± 0.05	0.63 ± 0.27	0.48 ± 0.18
1983-84	0.92 ± 0.54	0.64 ± 0.28	0.15 ± 0.10	0.32 ± 0.22	0.41 ± 0.15
1984-85	0.24 ± 0.14	0.58 ± 0.22	0.23 ± 0.10	0.41 ± 0.21	0.32 ± 0.08
1985-86	0.34 ± 0.19	0.42 ± 0.16	0.13 ± 0.04	0.32 ± 0.23	0.27 ± 0.08

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.



Table J.7. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1982-1985).

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
Atlantic croaker						
	1982					
	Weekend	0.00	0.00	0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01
	Weekday	0.00	<.01 $\pm$ <.01	0.00	0.04 $\pm$ 0.04	<.01 $\pm$ <.01
	1983					
	Weekend	<.01 $\pm$ <.01	0.00	0.00	0.00	<.01 $\pm$ <.01
	Weekday	0.00	0.00	0.00	0.00	0.00
	1984					
	Weekend	0.00	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	Weekday	0.00	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
	1985					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday	0.00	0.00	0.00	0.00	0.00
Atlantic sharpnose shark						
	1982 <sup>b</sup>					
	Weekend					
	Weekday					
	1983					
	Weekend	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	Weekday	0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1984					
	Weekend	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	0.00	<.01 $\pm$ <.01
	Weekday	0.05 $\pm$ 0.05	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1985					
	Weekend	<.01 $\pm$ <.01	0.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.00	0.01 $\pm$ <.01
	Weekday	0.00	0.01 $\pm$ <.01	0.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
Cobia						
	1982					
	Weekend	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	0.01 $\pm$ <.01
	Weekday	0.00	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
	1983					
	Weekend	0.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
	Weekday	0.02 $\pm$ 0.02	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01	0.01 $\pm$ 0.01
	1984					
	Weekend	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
	Weekday	0.00	<.01 $\pm$ <.01	0.00	0.01 $\pm$ 0.01	<.01 $\pm$ <.01
	1985					
	Weekend	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01	<.01 $\pm$ <.01
	Weekday	<.01 $\pm$ <.01	0.01 $\pm$ 0.01	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01

Table J.7. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
King mackerel						
	1982					
	Weekend	0.04 ± 0.03	0.09 ± 0.03	0.04 ± 0.02	0.03 ± 0.02	0.05 ± 0.02
	Weekday	0.09 ± 0.08	0.09 ± 0.05	0.07 ± 0.02	0.06 ± 0.04	0.08 ± 0.04
	1983					
	Weekend	0.04 ± 0.03	0.04 ± 0.02	0.06 ± 0.05	0.01 ± 0.01	0.05 ± 0.03
	Weekday	0.01 ± 0.01	0.08 ± 0.06	0.20 ± 0.18	0.01 ± 0.01	0.09 ± 0.07
	1984					
	Weekend	0.04 ± 0.02	0.07 ± 0.03	0.07 ± 0.03	0.03 ± 0.02	0.05 ± 0.02
	Weekday	<.01 ± <.01	0.06 ± 0.02	0.08 ± 0.04	0.02 ± 0.01	0.06 ± 0.02
	1985					
	Weekend	0.03 ± 0.02	0.12 ± 0.09	0.04 ± 0.01	0.01 ± 0.01	0.05 ± 0.02
	Weekday	0.10 ± 0.08	0.07 ± 0.04	0.06 ± 0.04	0.01 ± 0.01	0.08 ± 0.04
Red drum						
	1982					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday	0.00	0.00	0.00	0.00	0.00
	1983					
	Weekend	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
	1984					
	Weekend	<.01 ± <.01	0.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
	1985					
	Weekend	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	0.00	0.00	0.00	0.00
Red snapper						
	1982					
	Weekend	0.08 ± 0.07	0.06 ± 0.03	0.04 ± 0.01	0.46 ± 0.27	0.08 ± 0.03
	Weekday	0.13 ± 0.09	0.17 ± 0.14	0.01 ± <.01	0.53 ± 0.33	0.14 ± 0.06
	1983					
	Weekend	0.51 ± 0.45	0.27 ± 0.22	0.03 ± 0.02	0.64 ± 0.45	0.21 ± 0.12
	Weekday	1.06 ± 1.03	0.36 ± 0.21	0.01 ± 0.01	0.24 ± 0.22	0.43 ± 0.33
	1984					
	Weekend	0.01 ± 0.01	0.08 ± 0.04	0.03 ± 0.02	0.15 ± 0.09	0.04 ± 0.02
	Weekday	0.00	0.08 ± 0.04	0.22 ± 0.15	0.19 ± 0.18	0.17 ± 0.09
	1985					
	Weekend	0.03 ± 0.03	0.06 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01
	Weekday	<.01 ± <.01	0.04 ± 0.03	0.00	0.24 ± 0.24	0.01 ± 0.01

Table J.7. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Sand seatrout					
1982					
Weekend	0.00	0.36 ± 0.28	0.01 ± 0.01	0.00	0.11 ± 0.09
Weekday	0.00	0.01 ± 0.01	<.01 ± <.01	0.04 ± 0.04	0.01 ± <.01
1983					
Weekend	0.01 ± 0.01	0.02 ± 0.02	0.00	<.01 ± <.01	<.01 ± <.01
Weekday	0.00	0.01 ± 0.01	0.00	0.00	<.01 ± <.01
1984					
Weekend	0.07 ± 0.06	0.12 ± 0.07	<.01 ± <.01	0.00	0.04 ± 0.02
Weekday	0.00	0.12 ± 0.10	0.00	0.00	0.02 ± 0.02
1985					
Weekend	<.01 ± <.01	0.08 ± 0.08	0.00	0.00	0.01 ± 0.01
Weekday	0.02 ± 0.02	0.01 ± 0.01	0.00	0.00	0.01 ± 0.01
Spanish mackerel					
1982					
Weekend	0.02 ± 0.02	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
Weekday	0.02 ± 0.01	<.01 ± <.01	0.00	0.00	0.01 ± 0.01
1983					
Weekend	0.02 ± 0.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
Weekday	0.02 ± 0.02	<.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± 0.01
1984					
Weekend	0.02 ± 0.02	<.01 ± <.01	<.01 ± <.01	0.00	0.01 ± 0.01
Weekday	0.00	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1985					
Weekend	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01
Weekday	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
Spotted seatrout					
1982					
Weekend	0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01
Weekday	<.01 ± <.01	0.00	0.00	0.00	<.01 ± <.01
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1984					
Weekend	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday	0.00	0.00	0.00	0.00	0.00
1985					
Weekend	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
Weekday	0.00	0.00	<.01 ± <.01	0.00	<.01 ± <.01

Table J.7. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
Vermilion snapper						
1982 <sup>b</sup>						
Weekend						
Weekday						
1983						
Weekend		0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00	0.00
1984						
Weekend		0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	<.01 ± <.01	0.00	<.01 ± <.01
1984						
Weekend		0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00	0.00
Other species						
1982						
Weekend		0.03 ± 0.02	0.06 ± 0.03	0.06 ± 0.04	0.04 ± 0.02	0.05 ± 0.02
Weekday		0.05 ± 0.04	0.07 ± 0.05	0.02 ± 0.01	0.05 ± 0.04	0.05 ± 0.02
1983						
Weekend		0.23 ± 0.21	0.03 ± 0.02	0.04	<.01 ± <.01	0.08
Weekday		0.12	0.08	0.02	0.48 ± 0.48	0.14
1984						
Weekend		0.12	0.10	0.03 ± 0.01	0.03	0.06
Weekday		0.06	0.11	0.04	0.19	0.09
1985						
Weekend		0.13	0.15	0.06 ± 0.02	0.10 ± 0.10	0.10
Weekday		0.02 ± 0.02	0.30 ± 0.19	0.01 ± <.01	0.00	0.06 ± 0.03
All species combined <sup>a</sup>						
1982						
Weekend		0.16 ± 0.13	0.58 ± 0.31	0.17 ± 0.08	0.54 ± 0.29	0.31 ± 0.12
Weekday		0.28 ± 0.19	0.35 ± 0.19	0.11 ± 0.04	0.71 ± 0.43	0.29 ± 0.10
1983						
Weekend		0.82 ± 0.56	0.38 ± 0.26	0.14 ± 0.10	0.66 ± 0.46	0.36 ± 0.16
Weekday		1.24 ± 1.16	0.54 ± 0.27	0.25 ± 0.21	0.74 ± 0.67	0.68 ± 0.42
1984						
Weekend		0.27 ± 0.18	0.39 ± 0.15	0.13 ± 0.06	0.22 ± 0.12	0.21 ± 0.07
Weekday		0.10 ± 0.10	0.39 ± 0.18	0.34 ± 0.20	0.41 ± 0.31	0.34 ± 0.13
1985						
Weekend		0.21 ± 0.13	0.45 ± 0.21	0.14 ± 0.05	0.14 ± 0.11	0.21 ± 0.07
Weekday		0.16 ± 0.13	0.43 ± 0.24	0.08 ± 0.04	0.27 ± 0.27	0.20 ± 0.08

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.

Table J.8. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1982-1986). Blank = no fishermen interviewed.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1982-83					
Weekend		0.01 $\pm$ 0.01	0.00		0.01 $\pm$ <.01
Weekday	0.03 $\pm$ 0.03	0.00	0.00		0.02 $\pm$ 0.02
1983-84					
Weekend		<.01 $\pm$ <.01		0.00	<.01 $\pm$ <.01
Weekday		0.00			0.00
1984-85					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
1985-86					
Weekend	0.00	0.00	0.00		0.00
Weekday		0.00		0.00	0.00
Atlantic sharpnose shark					
1982-83 <sup>b</sup>					
Weekend					
Weekday					
1983-84					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
1984-85					
Weekend		0.00		0.44 $\pm$ 0.44	0.16 $\pm$ 0.16
Weekday		0.00			0.00
1985-86					
Weekend	0.00	0.00	0.00		0.00
Weekday		0.00		0.00	0.00
Cobia					
1982-83					
Weekend		0.00	0.00		0.00
Weekday	0.00	0.00	0.00		0.00
1983-84					
Weekend		0.00	--	0.00	0.00
Weekday		0.00			0.00
1984-85					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
1985-86					
Weekend	0.00	0.00	0.00		0.00
Weekday		0.00		0.00	0.00

Table J.8. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
King mackerel					
1982-83					
Weekend		0.00	0.00		0.00
Weekday	0.00	0.00	0.00		0.00
1983-84					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
1984-85					
Weekend		0.02 ± 0.02		0.00	0.02 ± 0.02
Weekday		0.00			0.00
1985-86					
Weekend	0.00	0.00	0.00		0.00
Weekday		0.00		0.00	0.00
Red drum					
1982-83					
Weekend		0.01 ± 0.01	0.00		<.01 ± <.01
Weekday	0.00	0.00	0.00		0.00
1983-84					
Weekend		0.01 ± 0.01		0.00	<.01 ± <.01
Weekday		0.02 ± 0.02			0.02 ± 0.02
1984-85					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
1985-86					
Weekend	0.04 ± 0.04	<.01 ± <.01	0.00		0.03 ± 0.03
Weekday		0.00		0.00	0.00
Red snapper					
1982-83					
Weekend		2.69 ± 1.87	0.37 ± 0.17		1.78 ± 1.62
Weekday	0.49 ± 0.49	0.75 ± 0.30	0.00		0.39 ± 0.32
1983-84					
Weekend		0.49 ± 0.36		0.00	0.08 ± 0.08
Weekday		0.44 ± 0.41			0.44 ± 0.41
1984-85					
Weekend		0.62 ± 0.52		0.30 ± 0.30	0.51 ± 0.36
Weekday		0.00			0.00
1985-86					
Weekend	1.92 ± 1.79	0.18 ± 0.18	0.00		1.32 ± 1.17
Weekday		0.00		1.55 ± 1.55	0.58 ± 0.58

Table J.8. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
	Day type					
Sand seatrout						
1982-83						
	Weekend		0.07 ± 0.07	0.00		0.05 ± 0.05
	Weekday	6.24 ± 6.24	2.12 ± 0.90	0.00		3.84 ± 3.62
1983-84						
	Weekend		0.83 ± 0.63		0.00	0.14 ± 0.13
	Weekday		1.92 ± 1.92			1.92 ± 1.92
1984-85						
	Weekend		0.05 ± 0.05		0.00	0.03 ± 0.03
	Weekday		0.00			0.00
1985-86						
	Weekend	0.03 ± 0.03	0.15 ± 0.15	0.00		0.06 ± 0.05
	Weekday		0.00		0.00	0.00
Spanish mackerel						
1982-83						
	Weekend		0.00	0.00		0.00
	Weekday	0.00	0.00	0.00		0.00
1983-84						
	Weekend		0.00		0.00	0.00
	Weekday		0.00			0.00
1984-85						
	Weekend		0.00		0.00	0.00
	Weekday		0.00			0.00
1985-86						
	Weekend	0.00	0.00	0.00		0.00
	Weekday		0.00		0.00	0.00
Spotted seatrout						
1982-83						
	Weekend		0.00	0.00		0.00
	Weekday	0.00	0.00	0.00		0.00
1983-84						
	Weekend		0.00		0.00	0.00
	Weekday		0.00			0.00
1984-85						
	Weekend		0.00		0.00	0.00
	Weekday		0.00			0.00
1985-86						
	Weekend	0.00	0.00	0.00		0.00
	Weekday		0.00		0.00	0.00

Table J.8. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
	Day type					
Vermilion snapper						
	1982-83 <sup>b</sup>					
	Weekend					
	Weekday					
	1983-84					
	Weekend		0.00		0.00	0.00
	Weekday		0.00			0.00
	1984-85					
	Weekend		0.00		0.00	0.00
	Weekday		0.00			0.00
	1985-86					
	Weekend	0.00	0.00	0.00		0.00
	Weekday		0.00		0.00	0.00
Other species						
	1982-83					
	Weekend		0.07 ± 0.05	0.00		0.04 ± 0.04
	Weekday	0.03 ± 0.03	0.25 ± 0.10	0.15 ± 0.06		0.09 ± 0.06
	1983-84					
	Weekend		0.11		0.00	0.02
	Weekday		0.25 ± 0.24			0.25 ± 0.24
	1984-85					
	Weekend		0.64		0.07 ± 0.07	0.42 ± 0.41
	Weekday		10.75 ± 10.75			10.75 ± 10.75
	1985-86					
	Weekend	0.31	0.04	0.00		0.22
	Weekday		0.00		0.66 ± 0.66	0.24 ± 0.24
All species combined <sup>a</sup>						
	1982-83					
	Weekend		2.86 ± 1.95	0.37 ± 0.17		1.88 ± 1.68
	Weekday	6.78 ± 6.78	3.06 ± 1.10	0.15 ± 0.06		4.33 ± 4.00
	1983-84					
	Weekend		1.45 ± 1.00		0.00	0.25 ± 0.22
	Weekday		2.64 ± 2.58			2.64 ± 2.58
	1984-85					
	Weekend		1.33 ± 1.09		0.82 ± 0.73	1.15 ± 0.77
	Weekday		10.75 ± 10.75			10.75 ± 10.75
	1985-86					
	Weekend	2.29 ± 2.12	0.38 ± 0.38	0.00		1.62 ± 1.40
	Weekday		0.00		2.21 ± 2.21	0.82 ± 0.82

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

<sup>b</sup>This species is included in other species in this year.



Table J.9. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in the FCZ by species and area (1982-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1982-83	0.35	0.53 $\pm$ 0.05	0.21		0.26 $\pm$ 0.14
1983-84	0.17 $\pm$ 0.01	0.25			0.18 $\pm$ 0.04
1984-85		0.36 $\pm$ 0.04	0.54		0.40 $\pm$ 0.13
1985-86		0.14			0.14
Atlantic sharpnose shark					
1982-83 <sup>b</sup>					
1983-84	5.34 $\pm$ 0.08	5.76	5.39 $\pm$ 0.24		5.40 $\pm$ 0.70
1984-85	6.44 $\pm$ 0.08	3.17 $\pm$ 0.72	8.62 $\pm$ 0.88	7.70	7.37 $\pm$ 5.75
1985-86	6.18	5.65 $\pm$ 0.37	6.09 $\pm$ 0.40		6.06 $\pm$ 1.61
Cobia					
1982-83	10.68	5.58 $\pm$ 1.59	9.14 $\pm$ 1.13	5.38	7.16 $\pm$ 1.57
1983-84	14.41 $\pm$ 3.46	7.26 $\pm$ 2.53	12.94 $\pm$ 2.04	8.94	11.01 $\pm$ 1.81
1984-85	5.50	15.66 $\pm$ 2.78	4.23	6.10	7.74 $\pm$ 5.23
1985-86	8.67 $\pm$ 2.68	9.92 $\pm$ 1.14	7.03 $\pm$ 1.36	6.08	7.99 $\pm$ 1.83
King mackerel					
1982-83	5.98 $\pm$ 1.27	5.76 $\pm$ 0.92	5.69 $\pm$ 0.42	3.40 $\pm$ 0.40	5.72 $\pm$ 0.44
1983-84	6.91 $\pm$ 1.35	9.91 $\pm$ 0.84	9.32 $\pm$ 0.83	5.62 $\pm$ 1.56	9.02 $\pm$ 0.91
1984-85	7.87 $\pm$ 1.10	8.15 $\pm$ 1.01	7.16 $\pm$ 0.24	6.48 $\pm$ 0.96	7.36 $\pm$ 0.49
1985-86	8.12 $\pm$ 1.09	7.81 $\pm$ 0.56	8.51 $\pm$ 1.17	7.14 $\pm$ 2.79	8.16 $\pm$ 0.98
Red drum					
1982-83		3.15			3.15
1983-84		1.90 $\pm$ 0.38			1.90 $\pm$ 0.38
1984-85	3.30	2.40 $\pm$ 0.27			2.83 $\pm$ 1.71
1984-85	2.61	1.80 $\pm$ 0.61			2.54 $\pm$ 2.44
Red snapper					
1982-83	0.44 $\pm$ 0.22	0.51 $\pm$ 0.14	0.57 $\pm$ 0.15	0.91 $\pm$ 5.60	0.66 $\pm$ 0.82
1983-84	0.45 $\pm$ 0.05	0.82 $\pm$ 0.24	0.56 $\pm$ 0.09	0.66 $\pm$ 0.09	0.56 $\pm$ 0.09
1984-85	0.51 $\pm$ 0.02	0.92 $\pm$ 0.18	0.98 $\pm$ 0.35	0.77 $\pm$ 0.09	0.91 $\pm$ 0.24
1985-86	1.10 $\pm$ 0.49	0.49 $\pm$ 0.04	0.73 $\pm$ 0.09	0.99 $\pm$ 0.36	1.00 $\pm$ 0.41
Sand seatrout					
1982-83		0.43 $\pm$ 0.15	0.25 $\pm$ 0.44		0.39 $\pm$ 0.22
1983-84	0.39	0.40 $\pm$ 0.04			0.40 $\pm$ 0.04
1984-85	0.25 $\pm$ 0.04	0.50 $\pm$ 0.03	0.41		0.40 $\pm$ 0.40
1985-86	0.39 $\pm$ 0.08	0.51 $\pm$ 0.06			0.48 $\pm$ 0.06

Table J.9. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spanish mackerel					
1982-83	0.94 ± 0.09	1.44 ± 0.17	0.31		1.00 ± 0.21
1983-84	1.48 ± 0.24	1.29 ± 0.09	1.14 ± 0.15	1.63	1.35 ± 0.23
1984-85	1.06 ± 0.02	0.68 ± 0.10	0.83 ± 0.09	0.62 ± 0.62	0.96 ± 0.06
1985-86	0.99	0.97 ± 0.09	1.10 ± 0.29	1.36 ± 0.40	1.00 ± 0.11
Spotted seatrout					
1982-83	1.05	0.29			0.40 ± 0.35
1983-84		.60 ± 0.26			0.60 ± 0.26
1984-85		1.73			1.73
1985-86	1.02	0.98 ± 0.26	0.50		0.91 ± 0.46
Vermilion snapper					
1982-83 <sup>b</sup>					
1983-84			0.24		0.24
1984-85			0.36		0.36
1985-86					
All species combined <sup>a</sup>					
1982-83	1.52 ± 1.51	2.01 ± 1.57	2.70 ± 2.14	1.13 ± 2.02	2.11 ± 1.34
1983-84	2.37 ± 0.87	3.27 ± 0.27	5.61 ± 1.00	0.96 ± 0.30	3.44 ± 0.25
1984-85	3.44 ± 0.24	2.89 ± 0.41	4.56 ± 0.69	2.48 ± 0.57	3.49 ± 0.52
1985-86	3.64 ± 1.10	3.41 ± 0.66	5.43 ± 0.62	2.96 ± 1.23	3.88 ± 0.92

<sup>a</sup>Includes "other" species.

<sup>b</sup>Mean weights are not available for this species in this year.

Table J.10. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1982-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker						
	1982			0.21		0.21
	Weekend					
	Weekday					
	1983	0.17 $\pm$ 0.01				0.17 $\pm$ 0.01
	Weekend					
	Weekday					
	1984		0.38 $\pm$ 0.03	0.54		0.41 $\pm$ 0.13
	Weekend					
	Weekday		0.25			0.25
	1985		0.14			0.14
	Weekend					
	Weekday					
Atlantic sharpnose shark						
	1982 <sup>b</sup>					
	Weekend					
	Weekday					
	1983	5.39	5.76	5.15 $\pm$ 0.35		5.37 $\pm$ 3.78
	Weekend					
	Weekday	5.06		5.70		5.16
	1984	6.42 $\pm$ 0.12	2.74	6.41		6.04 $\pm$ 0.55
	Weekend					
	Weekday	6.48	5.33	9.17		6.68
	1985	6.18 $\pm$ 6.18	5.47 $\pm$ 0.48	6.18 $\pm$ 0.39		6.12 $\pm$ 1.76
	Weekend		6.03 $\pm$ 0.59	5.32 $\pm$ 2.03		5.55 $\pm$ 1.57
	Weekday					
Cobia						
	1982					
	Weekend	10.68	8.13 $\pm$ 1.44	9.12 $\pm$ 2.06		9.09 $\pm$ 1.31
	Weekday		3.84 $\pm$ 1.93	9.17 $\pm$ 3.53	5.38 $\pm$ 0.00	5.50 $\pm$ 2.00
	1983	14.78 $\pm$ 4.71	6.56 $\pm$ 1.58	12.94 $\pm$ 2.04	8.94	13.18 $\pm$ 4.28
	Weekend					
	Weekday	13.31 $\pm$ 6.69	9.82 $\pm$ 8.67			11.56 $\pm$ 5.48
	1984	5.50	15.17 $\pm$ 3.52	4.23		9.63 $\pm$ 4.16
	Weekend					
	Weekday		17.62		6.10	7.04 $\pm$ 7.04
	1985	12.20 $\pm$ 0.10	8.75	7.80 $\pm$ 1.45	6.08	8.63 $\pm$ 1.70
	Weekend					
	Weekday	5.15	11.66 $\pm$ 1.29	3.95		8.14 $\pm$ 3.24

Table J.10. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
King mackerel						
	1982					
	Weekend	6.04 ± 2.15	5.42 ± 0.65	5.44 ± 0.51	2.92 ± 0.27	5.46 ± 0.41
	Weekday	5.89 ± 2.06	6.33 ± 2.09	5.90 ± 0.65	3.88 ± 0.34	6.03 ± 0.85
	1983					
	Weekend	6.76 ± 1.74	8.39 ± 0.70	10.24 ± 1.58	3.93	9.39 ± 1.55
	Weekday	8.22 ± 3.21	12.25 ± 0.69	8.20 ± 0.79	6.18 ± 2.38	8.68 ± 0.90
	1984					
	Weekend	7.75 ± 1.15	8.25 ± 1.34	7.23 ± 0.21	5.72 ± 1.16	7.41 ± 0.62
	Weekday	10.17	7.88 ± 1.38	7.05 ± 0.48	7.88 ± 1.14	7.25 ± 0.70
	1985					
	Weekend	8.18 ± 1.33	7.81 ± 0.72	8.96 ± 1.69	6.46 ± 2.97	8.33 ± 1.26
	Weekday	7.75	7.80 ± 0.54	7.51 ± 0.38	12.55	7.70 ± 4.75
Red drum						
	1982					
	Weekend					
	Weekday					
	1983					
	Weekend		2.49 ± 1.53			2.49 ± 1.53
	Weekday		2.27 ± 1.54			2.27 ± 1.54
	1984					
	Weekend	3.30	2.51 ± 0.37			2.93 ± 1.93
	Weekday		2.10			2.10
	1985					
	Weekend		1.28 ± 0.07			1.28 ± 0.07
	Weekday					
Red snapper						
	1982					
	Weekend	0.48 ± 0.28	0.47 ± 0.49	0.55 ± 0.22	0.26	0.47 ± 0.32
	Weekday	0.36 ± 0.18	0.47 ± 0.59	0.48 ± 0.17	1.36	1.05 ± 1.21
	1983					
	Weekend	0.49 ± 0.02	0.44 ± 0.13	0.53 ± 0.11	0.72 ± 0.12	0.54 ± 0.07
	Weekday	0.33 ± 0.05	1.17 ± 0.33	0.71	0.51 ± 0.06	0.45 ± 0.09
	1984					
	Weekend	0.51 ± 0.02	0.60 ± 0.15	0.55 ± 0.04	0.75 ± 0.11	0.62 ± 0.09
	Weekday		1.34 ± 0.45	1.13 ± 0.46	0.96 ± 0.09	1.09 ± 0.37
	1985					
	Weekend	0.49 ± 0.02	0.43 ± 0.02	0.73 ± 0.09	0.62 ± 0.01	0.54 ± 0.04
	Weekday	0.43	0.69 ± 0.09		1.78	1.16 ± 0.84

Table J.10. (Cont'd.)

Species	Year	Area				Coastwide <sup>a</sup>
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
Sand seatrout						
	1982					
	Weekend		0.41 ± 0.04	0.18		0.33 ± 0.27
	Weekday		0.40	0.43		0.42 ± 0.30
	1983					
	Weekend	0.39	0.41 ± 0.01			0.40 ± 0.01
	Weekday					
	1984					
	Weekend	0.25 ± 0.04	0.49 ± 0.04	0.41		0.35 ± 0.05
	Weekday		0.52 ± 0.07			0.52 ± 0.07
	1985					
	Weekend	0.80	0.52 ± 0.07			0.53 ± 0.11
	Weekday	0.31	0.56 ± 0.01			0.35 ± 0.27
Spanish mackerel						
	1982					
	Weekend	0.98	1.75 ± 1.25	0.31		0.94 ± 0.36
	Weekday	0.78 ± 0.08	1.28 ± 0.35			1.13 ± 0.16
	1983					
	Weekend	1.48 ± 0.24	1.28 ± 0.11	1.20		1.38 ± 0.52
	Weekday		1.33	1.05 ± 0.34	1.63	1.12 ± 0.51
	1984					
	Weekend	1.06 ± 0.02	0.78 ± 0.01	0.76 ± 0.10		1.01 ± 0.03
	Weekday		0.59 ± 0.14	0.95 ± 0.16	0.62	0.66 ± 0.24
	1985					
	Weekend	0.98 ± 0.11	1.04 ± 0.07	1.04 ± 0.35	1.36 ± 0.40	1.01 ± 0.12
	Weekday	1.07	0.66 ± 0.23	1.36		1.09 ± 1.06
Spotted seatrout						
	1982					
	Weekend		0.29			0.29
	Weekday	1.05				1.05
	1983					
	Weekend		0.87			0.87
	Weekday		0.34			0.34
	1984					
	Weekend		1.73			1.73
	Weekday					
	1985					
	Weekend	1.02	0.98 ± 0.26			0.99 ± 0.45
	Weekday			0.50		0.50

Table J.10. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Vermilion snapper					
1982 <sup>b</sup>					
Weekend					
Weekday					
1983					
Weekend					
Weekday			0.24		0.24
1984					
Weekend					
Weekday			0.36		0.36
1985					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1982					
Weekend	1.59 ± 2.14	2.00 ± 1.90	2.14 ± 2.66	0.49 ± 1.07	1.66 ± 1.34
Weekday	1.41 ± 2.68	4.06 ± 2.34	5.10 ± 2.23	1.56 ± 0.57	3.09 ± 2.09
1983					
Weekend	2.44 ± 1.15	2.46 ± 0.72	5.35 ± 1.59	1.03 ± 0.41	2.88 ± 1.09
Weekday	2.16 ± 0.69	5.74 ± 1.02	6.04 ± 0.90	0.80 ± 0.35	4.61 ± 0.52
1984					
Weekend	3.29 ± 0.26	3.40 ± 0.63	5.19 ± 0.85	2.24 ± 0.57	3.79 ± 0.55
Weekday	8.25 ± 1.85	2.91 ± 0.66	4.10 ± 0.84	2.63 ± 1.29	3.63 ± 0.95
1985					
Weekend	4.54 ± 1.61	3.46 ± 0.69	5.06 ± 0.69	3.91 ± 1.61	4.38 ± 1.10
Weekday	4.77 ± 4.77	3.58 ± 1.64	7.63 ± 0.69	3.30 ± 3.30	4.75 ± 2.85

<sup>a</sup>Includes "other" species.

<sup>b</sup>Mean weights are not available for this species in this year.

Table J.11. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1982-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide <sup>a</sup>
Atlantic croaker					
	1982-83				
	Weekend		0.53 $\pm$ 0.05		0.53 $\pm$ 0.05
	Weekday	0.35			0.35
	1983-84				
	Weekend		0.25		0.25
	Weekday				
	1984-85				
	Weekend				
	Weekday				
	1985-86				
	Weekend				
	Weekday				
Atlantic sharpnose shark					
	1982-83 <sup>b</sup>				
	Weekend				
	Weekday				
	1983-84				
	Weekend				
	Weekday				
	1984-85				
	Weekend				7.70
	Weekday				7.70
	1985-86				
	Weekend				
	Weekday				
Cobia					
	1982-83				
	Weekend				
	Weekday				
	1983-84				
	Weekend				
	Weekday				
	1984-85				
	Weekend				
	Weekday				
	1985-86				
	Weekend				
	Weekday				

Table J.11. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
King mackerel					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Red drum					
1982-83					
Weekend		3.15			3.15
Weekday					
1983-84					
Weekend		1.73 ± 0.17			1.73 ± 0.17
Weekday		1.31			1.31
1984-85					
Weekend					
Weekday					
1985-86					
Weekend	2.61	3.38			2.64 ± 2.64
Weekday					
Red snapper					
1982-83					
Weekend		0.58 ± 0.06			0.58 ± 0.06
Weekday		0.42			0.42
1983-84					
Weekend		0.77 ± 0.03			0.77 ± 0.03
Weekday		0.60 ± 0.10			0.60 ± 0.10
1984-85					
Weekend		1.04 ± 0.17		0.39	0.90 ± 0.22
Weekday					
1985-86					
Weekend	1.51 ± 0.79	0.81			1.48 ± 0.79
Weekday				0.57	0.57



Table J.11. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Sand seatrout					
1982-83					
Weekend		0.33			0.33
Weekday		0.45			0.45
1983-84					
Weekend		0.38 ± 0.06			0.38 ± 0.06
Weekday		0.46			0.46
1984-85					
Weekend		0.52			0.52
Weekday					
1985-86					
Weekend	0.36	0.35 ± 0.01			0.35 ± 0.11
Weekday					
Spanish mackerel					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Spotted seatrout					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					

Table J.11. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Vermilion snapper						
1982-83 <sup>b</sup>						
Weekend						
Weekday						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
All species combined <sup>a</sup>						
1982-83						
Weekend			0.52 ± 0.40	2.92		0.52 ± 0.40
Weekday	0.35 ± 0.00		0.52 ± 0.02			0.54 ± 0.14
1983-84						
Weekend			0.50 ± 0.09			0.50 ± 0.09
Weekday			0.58 ± 0.03			0.58 ± 0.03
1984-85						
Weekend			0.91 ± 0.22		3.42 ± 3.61	1.57 ± 1.11
Weekday						
1985-86						
Weekend	1.43 ± 0.88		0.79 ± 0.16			1.39 ± 0.83
Weekday					0.50 ± 0.50	0.50 ± 0.50

<sup>a</sup>Includes "other" species.

<sup>b</sup>Mean weights are not available for this species in this year.

Table J.12. Annual mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in the FCZ by species and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>	
<b>Atlantic croaker</b>						
1983-84	236 $\pm$ 4	270			241 $\pm$ 38	
1984-85		298 $\pm$ 11	343		307 $\pm$ 63	
1985-86		225			225	
<b>Atlantic sharpnose shark</b>						
1983-84	918 $\pm$ 3	940	918 $\pm$ 10		920 $\pm$ 73	
1984-85	968 $\pm$ 3	788 $\pm$ 44	1025 $\pm$ 23	1017	1003 $\pm$ 434	
1985-86	950	928 $\pm$ 18	943 $\pm$ 22		943 $\pm$ 216	
<b>Cobia</b>						
1983-84	1175 $\pm$ 97	995 $\pm$ 104	1163 $\pm$ 62	1040	1151 $\pm$ 150	
1984-85	891	1198 $\pm$ 82	820	921	963 $\pm$ 452	
1985-86	1001 $\pm$ 112	1061 $\pm$ 44	954 $\pm$ 61	982	987 $\pm$ 98	
<b>King mackerel</b>						
1983-84	899 $\pm$ 45	998 $\pm$ 24	979 $\pm$ 22	837 $\pm$ 69	970 $\pm$ 25	
1984-85	941 $\pm$ 41	932 $\pm$ 37	909 $\pm$ 9	875 $\pm$ 41	914 $\pm$ 18	
1985-86	940 $\pm$ 35	932 $\pm$ 20	933 $\pm$ 29	869 $\pm$ 93	935 $\pm$ 29	
<b>Red drum</b>						
1983-84		546 $\pm$ 33			546 $\pm$ 33	
1984-85	675	598 $\pm$ 22			635 $\pm$ 217	
1985-86	623	540 $\pm$ 55			616 $\pm$ 576	
<b>Red snapper</b>						
1983-84	312 $\pm$ 12	356 $\pm$ 28	334 $\pm$ 20	350 $\pm$ 11	329 $\pm$ 13	
1984-85	288 $\pm$ 2	355 $\pm$ 18	379 $\pm$ 42	367 $\pm$ 12	368 $\pm$ 22	
1985-86	373 $\pm$ 54	322 $\pm$ 7	352 $\pm$ 7	390 $\pm$ 42	368 $\pm$ 46	
<b>Sand seatrout</b>						
1983-84	332	333 $\pm$ 10			333 $\pm$ 5	
1984-85	284 $\pm$ 14	356 $\pm$ 7	338		328 $\pm$ 14	
1985-86	325 $\pm$ 18	358 $\pm$ 15			349 $\pm$ 16	
<b>Spanish mackerel</b>						
1983-84	656 $\pm$ 40	631 $\pm$ 15	598 $\pm$ 28	687	631 $\pm$ 47	
1984-85	584 $\pm$ 4	502 $\pm$ 24	542 $\pm$ 21	494	563 $\pm$ 24	
1985-86	552 $\pm$ 21	571 $\pm$ 22	581 $\pm$ 64	638 $\pm$ 59	560 $\pm$ 24	
<b>Spotted seatrout</b>						
1983-84		393 $\pm$ 60			393 $\pm$ 60	
1984-85		566			566	
1985-86	477	459 $\pm$ 37	379		449 $\pm$ 187	

Table J.12. (Cont'd.)

Species	Area									
	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide <sup>a</sup>	
Year										
Day type										
Vermilion snapper										
1983-84					281				281	
1984-85					319				319	
1985-86										
All species combined <sup>a</sup>										
1983-84	462 ±	45	507 ±	70	707 ±	69	422 ±	29	515 ±	47
1984-85	611 ±	22	539 ±	28	644 ±	38	508 ±	45	581 ±	29
1985-86	547 ±	53	547 ±	44	665 ±	34	545 ±	75	568 ±	49

<sup>a</sup>Includes "other" species.

Table J.13. Mean lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Area					
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>	
Atlantic croaker							
	1983						
	Weekend	236 $\pm$ 4					236 $\pm$ 4
	Weekday						
	1984						
	Weekend		303 $\pm$ 12	343			311 $\pm$ 68
	Weekday		270				270
	1985						
	Weekend		225				225
	Weekday						
Atlantic sharpnose shark							
	1983						
	Weekend	920	940	911 $\pm$ 18			919 $\pm$ 405
	Weekday	907		929			911 $\pm$ 765
	1984						
	Weekend	967 $\pm$ 4	762	968			944 $\pm$ 114
	Weekday	971	920	1039			976 $\pm$ 895
	1985						
	Weekend	950	918 $\pm$ 25	950 $\pm$ 19			947 $\pm$ 238
	Weekday		948 $\pm$ 24	878 $\pm$ 126			900 $\pm$ 94
Cobia							
	1983						
	Weekend	1185 $\pm$ 130	931 $\pm$ 69	1163 $\pm$ 62	1040		1150 $\pm$ 180
	Weekday	1144 $\pm$ 199	1090 $\pm$ 280				1139 $\pm$ 189
	1984						
	Weekend	891	1175 $\pm$ 101	820			1161 $\pm$ 372
	Weekday		1290		921		954 $\pm$ 499
	1985						
	Weekend	1147 $\pm$ 3	1015	992 $\pm$ 59	982		1023 $\pm$ 130
	Weekday	854	1130 $\pm$ 40	802			981 $\pm$ 466
King mackerel							
	1983						
	Weekend	895 $\pm$ 60	954 $\pm$ 27	1004 $\pm$ 36	761		981 $\pm$ 48
	Weekday	930 $\pm$ 111	1071 $\pm$ 19	948 $\pm$ 27	863 $\pm$ 106		960 $\pm$ 30
	1984						
	Weekend	936 $\pm$ 43	934 $\pm$ 49	911 $\pm$ 7	837 $\pm$ 47		915 $\pm$ 20
	Weekday	1035	928 $\pm$ 47	906 $\pm$ 19	944 $\pm$ 40		912 $\pm$ 26
	1985						
	Weekend	942 $\pm$ 3	931 $\pm$ 25	941 $\pm$ 42	839 $\pm$ 93		937 $\pm$ 37
	Weekday	934	936 $\pm$ 18	913 $\pm$ 16	1108		929 $\pm$ 557

Table J.13. (Cont'd.)

Species	Area									
	Year	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide <sup>a</sup>
Day type										
Red drum										
1983										
Weekend			585 ±	135						585 ± 135
Weekday			559 ±	148						559 ± 148
1984										
Weekend	675		608 ±	28						642 ± 239
Weekday			566							566
1985										
Weekend			494 ±	8						494 ± 8
Weekday										
Red snapper										
1983										
Weekend	324 ±	8	305 ±	29	326 ±	22	358 ±	14	329 ±	11
Weekday	282 ±	10	398 ±	35	366		331 ±	12	302 ±	15
1984										
Weekend	288 ±	2	317 ±	22	327 ±	6	362 ±	13	332 ±	9
Weekday			403 ±	29	398 ±	56	394 ±	11	397 ±	36
1985										
Weekend	299 ±	9	314 ±	4	352 ±	7	350 ±	6	317 ±	7
Weekday	320		362 ±	12			482		413 ±	230
Sand seatrout										
1983										
Weekend	332 ±	0	335 ±	3					334 ±	1
Weekday										
1984										
Weekend	284 ±	14	353 ±	11	338				316 ±	19
Weekday			362 ±	15					362 ±	15
1985										
Weekend	412		361 ±	20					363 ±	38
Weekday	308		372 ±	2					317 ±	263
Spanish mackerel										
1983										
Weekend	656 ±	40	630 ±	19	615				639 ±	182
Weekday			640		577 ±	63	687		588 ±	121
1984										
Weekend	584 ±	4	524 ±	5	529 ±	22			573 ±	5
Weekday			479 ±	33	570 ±	32	494		493 ±	102
1985										
Weekend	549 ±	25	587 ±	15	568 ±	75	638 ±	59	561 ±	26
Weekday	589		498 ±	63	646				591 ±	567

Table J.13. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spotted seatrout					
1983					
Weekend		452			452
Weekday		333			333
1984					
Weekend		566			566
Weekday					
1985					
Weekend	477	459 ± 37			464 ± 148
Weekday			379		379
Vermilion snapper					
1983					
Weekend					
Weekday			281		281
1984					
Weekend					
Weekday			319		319
1985					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1983					
Weekend	467 ± 61	510 ± 50	675 ± 108	407 ± 37	515 ± 60
Weekday	445 ± 25	518 ± 52	761 ± 74	455 ± 43	508 ± 34
1984					
Weekend	601 ± 25	574 ± 43	682 ± 42	478 ± 40	611 ± 33
Weekday	948 ± 87	548 ± 42	616 ± 48	532 ± 93	594 ± 48
1985					
Weekend	585 ± 60	567 ± 50	627 ± 31	603 ± 90	593 ± 50
Weekday	768 ± 7	526 ± 89	890 ± 31	572 ± 572	690 ± 59

<sup>a</sup>Includes "other" species.

Table J.14. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1983-84					
Weekend		270			270
Weekday		--			
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
Atlantic sharpnose shark					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday				1017	1017
1985-86					
Weekend					
Weekday					
Cobia					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
King mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					



Table J.14. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Red drum					
1983-84					
Weekend		544 ± 18			544 ± 18
Weekday		498			498
1984-85					
Weekend					
Weekday					
1985-86					
Weekend	623	680			625
Weekday					
Red snapper					
1983-84					
Weekend		371 ± 1			371 ± 1
Weekday		324 ± 2			324 ± 2
1984-85					
Weekend		372 ± 14		310	358 ± 65
Weekday					
1985-86					
Weekend	423 ± 79	354			420 ± 90
Weekday				341	341
Sand seatrout					
1983-84					
Weekend		324 ± 15			324 ± 15
Weekday		348			348
1984-85					
Weekend		362			362
Weekday					
1985-86					
Weekend	323	317 ± 2			318 ± 91
Weekday					
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					

Table J.14. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spotted seatrout						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
Vermilion snapper						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend						
Weekday						
All species combined <sup>a</sup>						
1983-84						
Weekend			555 ± 238			555 ± 238
Weekday			357 ± 4			357 ± 4
1984-85						
Weekend			407 ± 13		606 ± 347	467 ± 79
Weekday			416			416
1985-86						
Weekend	395 ± 59		364 ± 32			393 ± 57
Weekday				378		378

<sup>a</sup>Includes "other" species.

Table J.15. Percent composition of "other" species caught by private-boat fishermen in the FCZ by area, season and day type (1983-1986).

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1983-84	High use							
	Weekend							
	Atlantic bonito	<u>Sarda sarda</u>		2.06				0.69
	Atlantic spadefish	<u>Chaetodipterus faber</u>	1.92					0.69
	Black drum	<u>Pogonias cromis</u>	0.96	1.03				0.69
	Blue fish	<u>Pomatomus saltatrix</u>	10.58	1.03				4.12
	Blue runner	<u>Caranx crysos</u>	26.92	4.12	2.35			11.68
	Crevalle jack	<u>Caranx hippos</u>	1.92	6.19	12.94			6.53
	Dolphins sp.	Family <u>Coryphaenidae</u>						
	Dolphin	<u>Coryphaena hippurus</u>	43.27	25.77	11.76			27.49
	Gray triggerfish	<u>Balistes capriciscus</u>		11.34	4.71			5.15
	Great barracuda	<u>Sphyraena barracuda</u>			1.18			0.34
	Greater amberjack	<u>Seriola dumerili</u>	1.92	18.56				6.87
	Gulf kingfish	<u>Menticirrhus littoralis</u>	0.96		2.35			1.03
	Little tunny	<u>Euthynnus alletteratus</u>	0.96		8.24			2.75
	Mackerels sp.	Family <u>Scombridae</u>			2.35			0.69
	Ocellated flounder	<u>Ancylopsetta quadrocellata</u>	0.96					0.34
	Pigfish	<u>Orthopristis chrysoptera</u>			2.35			0.69
	Pinfish	<u>Lagodon rhomboides</u>			2.35			0.69
	Rainbow runner	<u>Elagalis bipinnulata</u>		1.03	1.18			0.34
	Remora sp.	Family <u>Echeneidae</u>						0.69
	Sailfish	<u>Istiophorus platypterus</u>	0.96					0.34
	Sea basses sp.	Family <u>Serranidae</u>			2.35			0.69
	Rock hind	<u>Epinephelus adscensionis</u>			3.53			1.03
	Rock sea bass	<u>Centropristis philadelphica</u>			10.59			3.09
	Snowy grouper	<u>Epinephelus niveatus</u>			1.18			0.34
	Warsaw grouper	<u>Epinephelus nigritus</u>	0.96	1.03	1.18			0.69
	Sharks sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>		1.03	1.18		40.00	1.37
	Dusky shark	<u>Carcharhinus obscurus</u>			3.53			1.03
	Requiem sharks	Family <u>Carcharhinidae</u>			15.29			4.47
	Spinner shark	<u>Carcharhinus brevipinna</u>			1.18			0.34
	Sheepshead	<u>Archosargus probatocephalus</u>		15.46				5.15
	Silver seatrout	<u>Cynoscion nothus</u>					40.00	0.69

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide	
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre			
			Snappers sp.	Family Lutjanidae							
			Gray snapper	<u>Lutjanus griseus</u>	6.73		4.71			1.37	
			Lane snapper	<u>Lutjanus synagris</u>	0.96	11.34	1.18			2.75	
			Southern kingfish	<u>Menticirrhus americanus</u>						4.12	
			Wahoo	<u>Acanthocybium solanderi</u>			3.53			1.03	
			Atlantic bonito	<u>Sarda sarda</u>		3.70			36.36	3.95	
			Atlantic spadefish	<u>Chaetodipterus faber</u>	42.11					9.04	
			Black drum	<u>Pogonius cromis</u>	15.79					3.39	
			Blue fish	<u>Pomatomus saltatrix</u>	7.89					1.69	
			Blue runner	<u>Caranx crysos</u>	10.53		9.88		18.18	7.91	
			Cero	<u>Scomberomorus regalis</u>		1.23				0.56	
			Crevalle jack	<u>Caranx hippos</u>	2.63		6.38			2.26	
			Dolphins sp.	Family Coryphaenidae							
			Dolphin	<u>Coryphaena hippurus</u>	2.63	44.44	53.19	27.27		36.72	
			Gray triggerfish	<u>Balistes capriscus</u>		2.47				1.13	
			Great barracuda	<u>Sphyraena barracuda</u>				9.09		0.56	
			Greater amberjack	<u>Seriola dumerili</u>		8.64				3.95	
			Hardhead	<u>Arius felis</u>	2.63					0.56	
			Ladyfish	<u>Elops saurus</u>		1.23				0.56	
			Little tunny	<u>Euthynnus alletteratus</u>		1.23	21.28			6.21	
			Pigfish	<u>Orthopristis chrysoptera</u>		2.63				0.56	
			Pinfish	<u>Lagodon rhomboides</u>		2.63				1.13	
			Sailfish	<u>Istiophorus platyperus</u>			1.23			0.56	
			Sea basses sp.	Family Serranidae			2.13			0.56	
			Scamp	<u>Mycteroperca phenax</u>		1.23				0.56	
			Warsaw grouper	<u>Epinephelus nigritus</u>	2.63	2.47				1.69	
			Sharks sp.								
			Blacktip shark	<u>Carcharhinus limbatus</u>		6.17	4.26			3.95	
			Dusky shark	<u>Carcharhinus obscurus</u>			8.51			2.26	
			Sandbar shark	<u>Carcharhinus plumbeus</u>				9.09		0.56	
			Spinner shark	<u>Carcharhinus brevipinna</u>		3.70				1.69	
			Sheepshead	<u>Archosargus probatocephalus</u>	7.89	11.11				6.78	

Table J.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Low use Weekend	Snappers sp.	Family Lutjanidae						
	Lane snapper	<u>Lutjanus synagris</u>		1.23	2.13			0.56
	Southern flounder	<u>Paralichthys lethostigma</u>						0.56
	Black drum	<u>Pogonius cromis</u>		22.73				22.73
	Gulf kingfish	<u>Menticirrhus littoralis</u>		34.09				34.09
	Pigfish	<u>Orthopristis chrysoptera</u>		4.55				4.55
	Pinfish	<u>Lagodon rhomboides</u>		4.55				4.55
	Sea basses sp.	Family Serranidae						
	Rock hind	<u>Epinephelus adscensionis</u>		4.55				4.55
	Warsaw grouper	<u>Epinephelus nigritus</u>		4.55				4.55
Weekday	Silver seatrout	<u>Cynoscion nothus</u>		15.91				15.91
	Southern kingfish	<u>Menticirrhus americanus</u>		9.09				9.09
	Gulf kingfish	<u>Menticirrhus littoralis</u>		85.71				85.71
	Sea basses sp.	Family Serranidae						
	Warsaw grouper	<u>Epinephelus nigritus</u>		14.29				14.29
	Atlantic bonito	<u>Sarda sarda</u>		6.88				6.88
	Atlantic spadefish	<u>Chaetodipterus faber</u>		7.94	12.77		19.23	7.34
	Blackfin tuna	<u>Thunnus atlanticus</u>		0.53				1.63
	Black drum	<u>Pogonius cromis</u>	3.39	24.87				13.32
	Bluefish	<u>Pomatomus saltatrix</u>	76.27	6.35				15.49
Blue runner	<u>Caranx crysos</u>		2.65	10.64			4.08	
Cero	<u>Scomberomorus regalis</u>		0.53				0.27	
Crevalle jack	<u>Caranx hippos</u>		2.65	6.38			2.99	
Dolphins sp.	Family Coryphaenidae							
Dolphin	<u>Coryphaena hippurus</u>		1.69	40.43		30.77	21.20	
Pompano dolphin	<u>Coryphaena equisetis</u>		2.12				1.09	
Gray triggerfish	<u>Balistes capricus</u>		3.70			3.85	2.17	
Great barracuda	<u>Sphyraena barracuda</u>		1.59	1.06		3.85	1.36	
Greater amberjack	<u>Seriola dumerilli</u>		4.23	5.32			3.53	

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
			Harvest fish	<u>Peprilus alepidotus</u>		0.53				1.09
			Jacks sp.	Family Carangidae			1.06			0.27
			Ladyfish	<u>Elops saurus</u>	0.53					0.27
			Little tunny	<u>Euthynnus alletteratus</u>		1.06			23.08	4.08
			Pigfish	<u>Orthopristis chrysoptera</u>		1.06				1.36
			Pinfish	<u>Lagodon rhomboides</u>		0.53				0.27
			Sailfish	<u>Istiophorus platyperus</u>		0.53			3.85	0.54
			Sea basses sp.	Family Serranidae		1.06				0.54
			Red hind	<u>Epinephelus guttatus</u>			1.06			0.27
			Rock hind	<u>Epinephelus adscensionis</u>	3.39					0.54
			Sharks sp.							
			Blacktip shark	<u>Carcharhinus limbatus</u>	1.69	0.53	7.45			2.45
			Finetooth shark	<u>Carcharhinus isodon</u>		0.53				0.27
			Requiem sharks	Family Carcharhinidae			2.13			0.54
			Smalltail shark	<u>Carcharhinus porosus</u>		0.53				0.27
			Sheepshead	<u>Archosargus probatocephalus</u>	6.78				7.69	1.63
			Silver seatrout	<u>Cynoscion nothus</u>	5.08	8.47				5.16
			Snappers sp.	Family Lutjanidae						
			Lane snapper	<u>Lutjanus synagris</u>	1.69	1.59				1.09
			Southern flounder	<u>Paralichthys lethostigma</u>		0.53				0.27
			Southern kingfish	<u>Menticirrhus americanus</u>		0.53				0.27
			Southern stingray	<u>Dasyatis americana</u>		0.53				0.27
			Wahoo	<u>Acanthocybium solanderi</u>			1.06			0.27
			White marlin	<u>Tetrapturus albidus</u>					3.85	0.27
			Yellowfin tuna	<u>Thunnus albacores</u>					3.85	0.27
			Atlantic bonito	<u>Sarda sarda</u>		16.67				4.09
			Atlantic spadefish	<u>Chaetodipterus faber</u>	57.14					1.82
			Blackfin tuna	<u>Thunnus atlanticus</u>					3.15	0.91
			Blue fish	<u>Pomatomus saltatrix</u>		1.85			1.75	0.91
			Blue runner	<u>Caranx crysos</u>		3.70			12.28	4.09
			Crevalle jack	<u>Caranx hippos</u>			2.94			1.36
			Dolphins sp.	Family Coryphaenidae						
			Dolphin	<u>Coryphaena hippurus</u>	14.29	27.78	50.00		1.75	30.91

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Christi	Lower Laguna Madre	Coastwide	
			Pompano dolphin	<u>Coryphaena equisetis</u>		12.96			1.75	3.64
			<del>Great barracuda</del>	<del>Sphyrna barracuda</del>		3.70		0.98		1.36
			Greater amberjack	<u>Seriola dumerili</u>		9.26		19.61		11.36
			Little tunny	<u>Euthynnus alletteratus</u>	14.29	5.56		11.76	19.30	12.27
			Rainbow runner	<u>Elagatis bipinnulata</u>		12.96				3.18
			Sea basses sp.	Family Serranidae		3.70				0.91
			Rock hind	<u>Epinephelus adscensionis</u>		1.85		0.98		0.91
			Rock seabass	<u>Centropristis philadelphica</u>				0.98		0.45
			Warsaw	<u>Epinephelus nigritus</u>					1.75	0.45
			Sharks sp.							
			Scalloped hammerhead	<u>Sphyrna lewini</u>					1.75	0.45
			Sheepshead	<u>Archosargus probatocephalus</u>	14.29					0.45
			Silver seatrout	<u>Cynoscion nothus</u>					52.63	13.64
			Snappers sp.	Family Lutjanidae						
			Lane snapper	<u>Lutjanus synagrus</u>					3.51	0.45
			Southern flounder	<u>Paralichthys lethostigma</u>				9.80		5.45
			Tarpon	<u>Megalops atlanticus</u>				0.98		0.45
			Tomtate	<u>Haemulon aurolineatum</u>				0.98		0.45
Low use										
Weekend			Atlantic bonito	<u>Sarda sarda</u>		1.54				1.43
			Black drum	<u>Pogonius cromis</u>		18.46				17.14
			Dolphins sp.	Family Coryphaenidae						
			Dolphin	<u>Coryphaena hippurus</u>		78.46			40.00	72.86
			Gray triggerfish	<u>Balistes capricus</u>						2.86
			Sea basses sp.	Family Serranidae						
			Gag	<u>Mycteroperca microlepis</u>		1.54			60.00	1.43
			Silver seatrout	<u>Cynoscion nothus</u>						4.29
Weekday										
			Silver seatrout	<u>Cynoscion nothus</u>		95.35				95.35
			Southern kingfish	<u>Menticirrhus americanus</u>		4.65				4.65

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
1985-86	High use	Weekend	Almaco jack	<u>Seriola rivirolana</u>		1.44		9.19		3.34
			Atlantic bonito	<u>Sarda sarda</u>	3.77	1.81		0.74		1.96
			Atlantic spadefish	<u>Chaetodipterus faber</u>	7.92	2.53		0.74		3.46
			Banded shrimp eel	<u>Opichthus</u> sp.				0.37		0.12
			Black drum	<u>Pogonias cromis</u>	0.38	7.58		0.37	20.37	2.65
			Blackfin tuna	<u>Thunnus atlanticus</u>				1.10		1.61
			Bluefin tuna	<u>Thunnus thynnus</u>				0.74		0.23
			Bluefish	<u>Pomatomis saltatrix</u>	4.53	1.08				1.73
			Blue runner	<u>Caranx crysos</u>		1.08		0.37		0.46
			Crevalle jack	<u>Caranx hippos</u>	1.89	0.36		0.74		0.92
			Dolphins sp.	Family Coryphaenidae		2.53				0.81
			Dolphin	<u>Coryphaena hippurus</u>	61.51	36.46		51.10		46.43
			Pompano dolphin	<u>Coryphaena equisetis</u>		1.81				0.58
			Florida pompano	<u>Trachinotus carolinus</u>		5.78				1.84
			Gray triggerfish	<u>Balistes cariciscus</u>		1.08		3.68		1.50
			Great barracuda	<u>Sphyaena barracuda</u>	0.38	3.25		3.31		2.19
			Greater amberjack	<u>Seriola dumerili</u>	3.40	6.50		10.29		6.34
			Gulf toadfish	<u>Opsanus beta</u>		0.36		0.37		0.12
			Hardhead catfish	<u>Arius felis</u>						0.12
			Jacks sp.	Family Carangidae		0.36				0.12
			Little tunny	<u>Ethynnus alletteratus</u>	5.28	13.00		2.94	74.07	11.29
			Pigfish	<u>Orthopristis chrysoptera</u>	1.51	2.53		0.74		1.50
			Pinfish	<u>Lagodon rhomboides</u>	1.13	0.36				0.46
			Rainbow runner	<u>Lagatis bipinnulata</u>		0.36				0.12
			Saifish	<u>Istiophorus platypterus</u>				0.74	1.85	0.35
			Sea Basses sp.	Family Serranidae	0.38	2.89				1.04
			Jewfish	<u>Epinephalus itajara</u>				0.37		0.12
			Rockhind	<u>Epinephalus adscensionis</u>	0.38			0.74		0.35
			Rock sea bass	<u>Centropristis philadelphica</u>				0.37		0.12
			Scamp	<u>Mycteroperca phenax</u>				1.47	1.85	0.58
			Warsaw grouper	<u>Epinephalus nigritus</u>	0.76	2.17		2.21		1.61



Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide	
					Galveston	Matagorda	Christi	Lower Laguna Madre			
			Sharks sp.								
			Blacktip shark	<u>Carcharhinus limbatus</u>	3.02	0.36	0.37			1.15	
			Bull shark	<u>Carcharhinus leucas</u>	0.76	0.36	0.37			0.46	
			Requiem sharks	Family <u>Carcharhinidae</u>		0.72	1.47			0.69	
			Sandbar shark	<u>Carcharhinus plumbeus</u>			4.78			1.50	
			Scalloped hammerhead	<u>Sphyrna lewini</u>		0.72				0.23	
			Sheepshead	<u>Archosargus probatocephalus</u>		0.72	0.37			0.35	
			Silver seatrout	<u>Cynoscion nothus</u>	0.38			1.85		0.23	
			Snappers sp.	Family <u>Lutjanidae</u>							
			Lane snapper	<u>Lutjanus synagris</u>		0.72				0.23	
			Southern flounder	<u>Paralichthys lethostigma</u>	1.13					0.35	
			Southern kingfish	<u>Menticirrhus americanus</u>		0.72				0.23	
			Tripletail	<u>Lobotes surinamensis</u>	1.51					0.46	
			Wahoo	<u>Acanthocybium solanderi</u>		0.36				0.12	
			Atlantic bonito	<u>Sarda sarda</u>						0.24	
			Atlantic spadefish	<u>Chaetodipterus faber</u>		5.40	7.14			5.04	
			Bluefish	<u>Pomatomus saltatrix</u>		0.26				0.24	
			Cero	<u>Scomberomorus regalis</u>		0.26				0.24	
			Crevalle jack	<u>Caranx hippos</u>	7.14					0.24	
			Dolphins sp.	Family <u>Coryphaenidae</u>							
			Dolphin	<u>Coryphaena hippurus</u>	7.14	20.31	21.43			19.90	
			Pompano dolphin	<u>Coryphaena equisetis</u>		0.51				0.48	
			Gray triggerfish	<u>Balistes capriciscus</u>		0.77				0.72	
			Greater amberjack	<u>Seriola dumerili</u>		0.26				0.24	
			Horseeye jack	<u>Caranx latus</u>		0.26				0.24	
			Little tunny	<u>Euthynnus alletteratus</u>	42.86	0.51	28.57			2.88	
			Remora	<u>Remora remora</u>			14.28			0.48	
			Sailfish	<u>Istiophorus platypterus</u>			14.28			0.48	
			Sea basses sp.	Family <u>Serranidae</u>							
			Gag	<u>Mycteroperca microlepis</u>		0.26				0.24	
			Warsaw grouper	<u>Epinephalus nigritus</u>		0.51				0.48	
			Sharks sp.								
			Blacktip shark	<u>Carcharhinus limbatus</u>			14.28			0.48	
			Great hammerhead	<u>Sphyrna mokarran</u>	7.14					0.24	

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
			Requiem sharks	Family <u>Carcharhinidae</u>		0.26			0.24
			Silky shark	<u>Carcharhinus falciformis</u>	7.14				0.24
			Smooth dogfish	<u>Mustelus canis</u>	28.57				0.96
			Silver seatrout	<u>Cynoscion nothus</u>		70.44			65.71
Low use			Black drum	<u>Pogonias cromis</u>	2.33	28.57			6.00
Weekend			Blue fish	<u>Pomatomus saltatrix</u>	2.33				2.00
			Gray triggerfish	<u>Balistes capriscus</u>	6.98				6.00
			Greater amberjack	<u>Seriola dumerili</u>		14.29			2.00
			Grunts sp.	Family <u>Haemulidae</u>	20.93				18.00
			Pigfish	<u>Orthopristis chrysoptera</u>	20.93				18.00
			Pinfish	<u>Lagodon rhomboides</u>	2.33				2.00
			Sea basses sp.	Family <u>Serranidae</u>					
			Gag	<u>Myrteroperca microlepis</u>	13.95	14.29			14.00
			Jewfish	<u>Epinephalus itajara</u>	2.33				2.00
			Rock hind	<u>Epinephalus adscensionis</u>		42.86			6.00
			Silver seatrout	<u>Cynoscion nothus</u>	27.91				24.00
Weekday			Gray triggerfish	<u>Balistes capriscus</u>				54.55	54.55
			Little tunny	<u>Euthynnus alletteratus</u>				18.18	18.18
			Sea basses sp.	Family <u>Serranidae</u>				27.27	27.27
			Scamp	<u>Mycteroperca phenax</u>					

Table J.16. Percent composition of the annual residential origin of private-boat fishermen-trips in the FCZ by area (1982-86).

Area Year <sup>a</sup>	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
<b>Galveston</b>				
1982-83	100	0	0	0
1983-84	87	0	10	3
1984-85	93	7	0	0
1985-86	89	1	10	1
<b>Matagorda</b>				
1982-83	65	24	11	0
1983-84	32	24	41	3
1984-85	49	17	33	0
1985-86	54	18	27	1
<b>Corpus Christi</b>				
1982-83	39	33	27	1
1983-84	20	31	45	3
1984-85	18	17	62	2
1985-86	24	13	60	2
<b>Lower Laguna Madre</b>				
1982-83	82	6	12	0
1983-84	45	8	45	3
1984-85	72	4	14	10
1985-86	66	9	16	8
<b>Coastwide</b>				
1982-83	64	19	17	0
1983-84	36	22	39	3
1984-85	38	17	44	1
1985-86	50	12	37	2

<sup>a</sup> Prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table J.17. Percent composition of the residential origin of private-boat fishermen-trips in the FCZ during the high-use season by area and day type (1982-1986).

Area Year <sup>a</sup>	Weekend				Weekday				Other states/ countries
	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties	Other states/ countries	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties	Other states/ countries	
Galveston									
1982-83	100	0	0	0	100	0	0	0	0
1983-84	84	0	12	4	100	0	0	0	0
1984-85	90	10	0	0	100	0	0	0	0
1985-86	86	0	13	1	100	0	0	0	0
Matagorda									
1982-83	46	30	24	0	47	35	18	0	0
1983-84	30	30	38	2	34	10	49	7	7
1984-85	45	16	38	0	65	14	20	1	1
1985-86	53	20	26	1	53	9	35	3	3
Corpus Christi									
1982-83	22	21	56	1	33	12	54	2	2
1983-84	21	36	42	3	17	19	56	8	8
1984-85	21	17	61	0	14	17	64	5	5
1985-86	28	12	59	1	13	13	67	7	7
Lower Laguna Madre									
1982-83	94	6	0	0	70	5	24	0	0
1983-84	47	10	40	3	29	0	71	0	0
1984-85	81	5	11	2	52	0	12	37	37
1985-86	66	11	19	5	57	0	0	43	43
Coastwide									
1982-83	47	20	32	0	46	18	35	1	1
1983-84	37	25	35	2	33	13	49	6	6
1984-85	40	16	44	0	34	16	46	4	4
1985-86	51	12	36	1	41	9	45	5	5

<sup>a</sup>prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table J.18. Percent composition of the residential origin of private-boat fishermen-trips in the FCZ during the low-use season by area and day type (1982-1986). Blank = no fishermen interviewed.

Area Year <sup>a</sup>	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galveston						
1982-83				100	0	0
1983-84						
1984-85						
1985-86	100	0	0			
Matagorda						
1982-83	89	11	0	78	22	0
1983-84	37	31	32	20	0	80
1984-85	27	45	27	100	0	0
1985-86	76	24	0	100	0	0
Corpus Christi						
1982-83	100	0	0	100	0	0
1983-84						
1984-85						
1985-86	0	100	0			
Lower Laguna Madre						
1982-83						
1983-84	100	0	0			
1984-85	100	0	0			
1985-86				100	0	0
Coastwide						
1982-83	76	24	0	86	14	0
1983-84	40	29	31	20	0	80
1984-85	47	33	20	100	0	0
1985-86	81	19	0	100	0	0

<sup>a</sup>Prior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table J.19. Mean fishing-party size (No. of fishermen) and mean trip length (h) for private-boat fishermen in the FCZ by area, season and day type (1982-1986). Blank = no fishermen interviewed.

Area Year	Mean fishing-party size				Mean trip length			
	High-use season		Low-use season		High-use season		Low-use season	
	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday
Galveston								
1982-83	3.0	3.5	1.7	3.1	8.1	7.2	8.2	7.0
1983-84	3.2	2.6		3.0	9.1	9.5		9.2
1984-85	3.3	2.4		3.0	7.0	7.1		7.0
1985-86	3.3	3.2	2.4	3.2	8.6	9.4	8.9	8.8
Matagorda								
1982-83	3.2	3.1	2.6	3.1	7.9	8.8	7.6	7.9
1983-84	3.2	3.0	3.1	3.1	7.6	8.2	6.6	8.2
1984-85	3.1	2.5	2.9	2.8	8.0	6.5	5.6	7.1
1985-86	3.2	3.2	3.4	3.2	7.4	7.3	7.9	7.4
Corpus Christi								
1982-83	3.2	3.2	3.0	3.2	7.0	7.2	11.5	6.3
1983-84	3.4	2.8		3.2	7.9	7.2		7.7
1984-85	3.4	3.1		3.3	7.1	6.7		6.9
1985-86	3.4	3.0	4.0	3.3	7.6	8.2	7.0	7.7
Lower Laguna Madre								
1982-83	3.5	3.1		3.3	7.5	8.7		8.0
1983-84	2.6	2.4	3.0	3.0	7.9	7.4	10.0	7.8
1984-85	3.5	2.8	2.7	3.3	7.8	6.8	7.5	7.5
1985-86	3.8	3.5	3.0	3.7	7.7	6.8	9.5	7.7
Coastwide								
1982-83	3.2	3.2	2.7	3.2	7.4	7.8	8.1	7.6
1983-84	3.2	2.9	3.1	3.1	8.0	7.9	6.8	7.9
1984-85	3.4	3.0	2.7	3.2	7.4	7.1	7.0	7.3
1985-86	3.3	3.1	2.9	3.3	7.8	8.1	8.4	7.8

Appendix K: Estimates for party-boat fishing in the Fishery Conservation  
Zone (FCZ) off Texas.

Table K.1. Number of days surveyed and number of party-boat fishermen interviewed ( ) in the FCZ by season, day type and area (1983-1986). WE = weekend days. WD = weekdays.

Year Season Day type	Area					Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1983-84						
High use						
WE	32 (10)	45 (4)	45 (35)	31 (17)	153 (66)	
WD	63 (0)	84 (6)	96 (33)	66 (18)	309 (57)	
Low use						
WE	12 (0)	24 (0)	22 (0)	12 (0)	70 (0)	
WD	24 (0)	42 (0)	43 (0)	24 (0)	133 (0)	
Annual	131 (10)	195 (10)	206 (68)	133 (35)	665 (123)	
1984-85						
High use						
WE	31 (0)	40 (6)	41 (35)	31 (5)	143 (46)	
WD	65 (0)	87 (0)	95 (33)	66 (19)	313 (52)	
Low use						
WE	12 (0)	20 (0)	21 (0)	12 (7)	66 (7)	
WD	24 (0)	41 (0)	44 (0)	24 (0)	133 (0)	
Annual	132 (0)	189 (6)	201 (68)	133 (31)	655 (105)	
1985-86						
High use						
WE	31 (0)	41 (0)	41 (19)	31 (17)	144 (36)	
WD	66 (6)	87 (0)	99 (16)	66 (24)	318 (46)	
Low use						
WE	12 (0)	19 (0)	23 (0)	12 (0)	66 (0)	
WD	24 (0)	43 (0)	43 (0)	24 (0)	134 (0)	
Annual	133 (6)	190 (0)	206 (35)	133 (41)	662 (82)	



Table K.2. Pressure estimates (man-h x 1000)  $\pm$  1 SE for party-boat fishermen in the FCZ by season, day type and area (1983-1986).

Area Year	High-use season		Low-use season		Annual <sup>a</sup>
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1983-84	8.3 $\pm$ 5.9	0.0	0.0	0.0	8.3 $\pm$ 5.9
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	3.5 $\pm$ 3.5	0.0	0.0	3.5 $\pm$ 3.5
Matagorda					
1983-84	1.3 $\pm$ 1.3	0.4 $\pm$ 0.4	0.0	0.0	1.7 $\pm$ 1.4
1984-85	0.5 $\pm$ 0.5	0.0	0.0	0.0	0.5 $\pm$ 0.5
1985-86	0.0	0.0	0.0	0.0	0.0
Corpus Christi					
1983-84	20.8 $\pm$ 16.7	80.3 $\pm$ 42.8	0.0	0.0	101.1 $\pm$ 45.9
1984-85	14.5 $\pm$ 6.7	6.8 $\pm$ 3.3	0.0	0.0	21.2 $\pm$ 7.5
1985-86	5.7 $\pm$ 3.7	1.4 $\pm$ 1.4	0.0	0.0	7.0 $\pm$ 4.0
Lower Laguna Madre					
1983-84	1.5 $\pm$ 0.7	4.5 $\pm$ 3.3	0.0	0.0	6.0 $\pm$ 3.4
1984-85	0.2 $\pm$ 0.2	4.5 $\pm$ 3.2	3.5 $\pm$ 3.5	0.0	8.2 $\pm$ 4.8
1985-86	3.1 $\pm$ 1.9	4.4 $\pm$ 2.1	0.0	0.0	7.5 $\pm$ 2.8
Coastwide <sup>a</sup>					
1983-84	31.9 $\pm$ 17.8	85.2 $\pm$ 42.9	0.0	0.0	117.1 $\pm$ 46.4
1984-85	15.2 $\pm$ 6.7	11.3 $\pm$ 4.6	3.5 $\pm$ 3.5	0.0	30.0 $\pm$ 8.9
1985-86	8.7 $\pm$ 4.2	9.2 $\pm$ 4.3	0.0	0.0	18.0 $\pm$ 6.0

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.3. Annual estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1986).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Atlantic croaker					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983-84	0.0	0.0	0.4 $\pm$ 0.4	0.0	0.4 $\pm$ 0.4
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
Cobia					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
1985-86	0.0	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
King mackerel					
1983-84	1.6 $\pm$ 1.6	0.1 $\pm$ 0.1	11.7 $\pm$ 5.6	0.2 $\pm$ 0.1	13.5 $\pm$ 7.4
1984-85	0.0	<.1 $\pm$ <.1	4.2 $\pm$ 2.2	<.1 $\pm$ <.1	4.2 $\pm$ 4.2
1985-86	0.3 $\pm$ 0.3	0.0	0.0	<.1 $\pm$ <.1	0.8 $\pm$ 0.5
Red drum					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Red snapper					
1983-84	0.0	<.1 $\pm$ <.1	0.0	3.3 $\pm$ 2.0	3.3 $\pm$ 2.0
1984-85	0.0	0.0	0.0	0.2 $\pm$ 0.2	0.2 $\pm$ 0.2
1985-86	0.5 $\pm$ 0.5	0.0	2.6 $\pm$ 2.3	0.5 $\pm$ 0.4	3.7 $\pm$ 2.4
Sand seatrout					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Spanish mackerel					
1983-84	0.3 $\pm$ 0.3	0.0	0.2 $\pm$ 0.2	0.0	0.5 $\pm$ 0.3
1984-85	0.0	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1
1985-86	0.1 $\pm$ 0.1	0.0	0.0	<.1 $\pm$ <.1	0.1 $\pm$ 0.1
Spotted seatrout					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0

Table K.3. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Vermilion snapper					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0
Other species					
1983-84	0.2 ± 0.2	<.1 ± <.1	14.8 ± 12.1	0.8 ± 0.4	15.8 ± 12.1
1984-85	0.0	<.1 ± <.1	0.8 ± 0.3	1.4 ± 0.9	2.1 ± 1.0
1985-86	0.2 ± 0.2	0.0	0.6	3.4 ± 2.4	4.2
All species combined <sup>a</sup>					
1983-84	2.1 ± 2.0	0.1 ± 0.1	27.0 ± 14.5	4.3 ± 2.1	33.5 ± 14.8
1984-85	0.0	0.1 ± 0.1	5.0 ± 2.4	1.6 ± 1.0	6.6 ± 2.6
1985-86	1.1 ± 1.1	0.0	3.7 ± 2.5	4.0 ± 2.4	8.8 ± 3.6

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.4. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1985).

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Year					
Day type					
Atlantic croaker					
1983					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.4 $\pm$ 0.4	0.0	0.4 $\pm$ 0.4
1984					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985					
Weekend	0.0	0.0	<.1 $\pm$ <.1	<.1 $\pm$ <.1	<.1 $\pm$ <.1
Weekday	0.0	0.0	0.0	0.0	0.0
Cobia					
1983					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
1985					
Weekend	0.0	0.0	<.1 $\pm$ <.1	0.0	<.1 $\pm$ <.1
Weekday	0.0	0.0	0.0	0.0	0.0
King mackerel					
1983					
Weekend	1.6 $\pm$ 1.6	0.0	2.0 $\pm$ 1.7	<.1 $\pm$ <.1	3.6 $\pm$ 2.3
Weekday	0.0	0.1 $\pm$ 0.1	9.7 $\pm$ 7.0	0.2 $\pm$ 0.1	9.9 $\pm$ 7.0
1984					
Weekend	0.0	<.1 $\pm$ <.1	0.9 $\pm$ 0.6	<.1 $\pm$ <.1	0.9 $\pm$ 0.6
Weekday	0.0	0.0	3.3 $\pm$ 2.1	0.0	3.3 $\pm$ 2.1
1985					
Weekend	0.0	0.0	0.1 $\pm$ 0.1	0.0	0.1 $\pm$ 0.1
Weekday	0.3 $\pm$ 0.3	0.0	0.3 $\pm$ 0.3	<.1 $\pm$ <.1	0.7 $\pm$ 0.5

Table K.4. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Day type						
Red drum						
1983						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
Red snapper						
1983						
Weekend	0.0	0.0	0.0	3.3 ± 2.0	3.3 ± 2.0	3.3 ± 2.0
Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	<.1 ± <.1
1984						
Weekend	0.0	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2	0.2 ± 0.2
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985						
Weekend	0.0	0.0	2.6 ± 2.3	0.5 ± 0.4	3.2 ± 2.3	3.2 ± 2.3
Weekday	0.5 ± 0.5	0.0	0.0	0.0	0.5 ± 0.5	0.5 ± 0.5
Sand seatrout						
1983						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
1983						
Weekend	0.3 ± 0.3	0.0	0.2 ± 0.2	0.0	0.5 ± 0.3	0.5 ± 0.3
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984						
Weekend	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1985						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.1 ± 0.1	0.0	0.0	<.1 ± <.1	0.1 ± 0.1	0.1 ± 0.1

Table K.4. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spotted seatrout					
1983					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Vermilion snapper					
1983					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Other species					
1983					
Weekend	0.2 ± 0.2	0.0	1.7 ± 1.3	0.2 ± 0.2	2.1 ± 1.4
Weekday	0.0	<.1 ± <.1	13.0 ± 12.0	0.6 ± 0.4	13.7 ± 12.0
1984					
Weekend	0.0	<.1 ± <.1	0.3 ± 0.2	<.1 ± <.1	0.4 ± 0.2
Weekday	0.0	0.0	0.4 ± 0.2	0.5 ± 0.4	0.9 ± 0.5
1985					
Weekend	0.0	0.0	0.4	2.5 ± 2.3	2.9
Weekday	0.2 ± 0.2	0.0	0.2 ± 0.2	0.9 ± 0.5	1.2 ± 0.6
All species combined <sup>a</sup>					
1983					
Weekend	2.1 ± 2.0	0.0	3.9 ± 3.1	3.5 ± 2.0	9.6 ± 4.3
Weekday	0.0	0.1 ± 0.1	23.1 ± 14.2	0.8 ± 0.5	24.0 ± 14.2
1984					
Weekend	0.0	0.1 ± 0.1	1.2 ± 0.7	0.3 ± 0.3	1.5 ± 0.8
Weekday	0.0	0.0	3.8 ± 2.3	0.5 ± 0.4	4.3 ± 2.4
1985					
Weekend	0.0	0.0	3.2 ± 2.4	3.1 ± 2.4	6.3 ± 3.4
Weekday	1.1 ± 1.1	0.0	0.5 ± 0.5	0.9 ± 0.6	2.5 ± 1.4

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.5. Estimated landings of fishes (No. x 1000)  $\pm$  1 SE caught by party-boat fishermen in the FCZ during the low-use season by species, day type and area (1983-1986).

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Year					
Day type					
Atlantic croaker					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Cobia					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
King mackerel					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0

Table K.5. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Red drum					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85		--			
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Red snapper					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Sand seatrout					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Spanish mackerel					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0



Table K.5. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide <sup>a</sup>
Spotted seatrout					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Vermilion snapper					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
Other species					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.8 ± 0.8	0.8 ± 0.8
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
All species combined <sup>a</sup>					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.8 ± 0.8	0.8 ± 0.8
Weekday	0.0	0.0	0.0	0.0	0.0
1985-86					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.6. Annual mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1986). Blank = no fishermen interviewed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
<b>Atlantic croaker</b>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86	0.00		0.00	0.00	0.00
<b>Atlantic sharpnose shark</b>					
1983-84	0.00	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1984-85		0.00	0.00	0.00	0.00
1985-86	0.00		<.01 $\pm$ <.01	0.01 $\pm$ 0.01	<.01 $\pm$ <.01
<b>Cobia</b>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1985-86	0.00		0.01 $\pm$ 0.01	0.00	<.01 $\pm$ <.01
<b>King mackerel</b>					
1983-84	0.19 $\pm$ 0.19	0.03 $\pm$ 0.03	0.11 $\pm$ 0.08	0.03 $\pm$ 0.02	0.12 $\pm$ 0.07
1984-85		0.05 $\pm$ 0.05	0.20 $\pm$ 0.12	0.01 $\pm$ 0.01	0.14 $\pm$ 0.08
1985-86	0.09 $\pm$ 0.09		0.06 $\pm$ 0.06	<.01 $\pm$ <.01	0.04 $\pm$ 0.03
<b>Red drum</b>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86	0.00		0.00	0.00	0.00
<b>Red snapper</b>					
1983-84	0.00	<.01 $\pm$ <.01	0.00	0.55 $\pm$ 0.42	0.03 $\pm$ 0.02
1984-85		0.00	0.00	0.02 $\pm$ 0.02	0.01 $\pm$ 0.01
1985-86	0.15 $\pm$ 0.15		0.37 $\pm$ 0.34	0.07 $\pm$ 0.06	0.21 $\pm$ 0.14
<b>Sand seatrout</b>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86	0.00		0.00	0.00	0.00
<b>Spanish mackerel</b>					
1983-84	0.03 $\pm$ 0.03	0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
1984-85		0.00	0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
1985-86	0.02 $\pm$ 0.02		0.00	<.01 $\pm$ <.01	<.01 $\pm$ <.01
<b>Spotted seatrout</b>					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86	0.00		0.00	0.00	0.00

Table K.6. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Vermilion snapper					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
1985-86	0.00		0.00	0.00	0.00
Other species					
1983-84	0.03 ± 0.02	<.01 ± <.01	0.15 ± 0.13	0.14 ± 0.10	0.14 ± 0.11
1984-85		0.06 ± 0.06	0.04 ± 0.02	0.16 ± 0.13	0.07 ± 0.04
1985-86	0.06 ± 0.06		0.08	0.45 ± 0.34	0.23
All species combined <sup>a</sup>					
1983-84	0.26 ± 0.25	0.04 ± 0.04	0.27 ± 0.18	0.72 ± 0.50	0.29 ± 0.16
1984-85		0.11 ± 0.11	0.23 ± 0.14	0.20 ± 0.15	0.22 ± 0.11
1985-86	0.32 ± 0.32		0.52 ± 0.42	0.53 ± 0.36	0.49 ± 0.25

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.7. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1985). Blank = no fishermen interviewed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
	1984					
	Weekend		0.00	0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
	1985					
	Weekend			0.00	0.00	0.00
	Weekday	0.00		0.00	0.00	0.00
Atlantic sharpnose shark						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1984					
	Weekend		0.00	0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
	1985					
	Weekend			<.01 $\pm$ <.01	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
	Weekday	0.00		0.00	0.00	0.00
Cobia						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
	1984					
	Weekend		0.00	0.00	0.00	0.00
	Weekday			<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	1985					
	Weekend			<.01 $\pm$ <.01	0.00	<.01 $\pm$ <.01
	Weekday	0.00		0.00	0.00	0.00
King mackerel						
	1983					
	Weekend	0.19 $\pm$ 0.19	0.00	0.09 $\pm$ 0.09	<.01 $\pm$ <.01	0.11 $\pm$ 0.09
	Weekday		0.14 $\pm$ 0.14	0.12 $\pm$ 0.10	0.04 $\pm$ 0.03	0.12 $\pm$ 0.09
	1984					
	Weekend		0.05 $\pm$ 0.05	0.06 $\pm$ 0.04	0.21 $\pm$ 0.21	0.06 $\pm$ 0.04
	Weekday			0.49 $\pm$ 0.36	0.00	0.29 $\pm$ 0.21
	1985					
	Weekend			0.02 $\pm$ 0.02	0.00	0.01 $\pm$ 0.01
	Weekday	0.09 $\pm$ 0.09		0.25 $\pm$ 0.25	0.01 $\pm$ 0.01	0.07 $\pm$ 0.06

Table K.7. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Red drum						
	1983					
		Weekend	0.00	0.00	0.00	0.00
		Weekday		0.00	0.00	0.00
	1984					
		Weekend		0.00	0.00	0.00
		Weekday			0.00	0.00
	1985					
		Weekend			0.00	0.00
		Weekday	0.00		0.00	0.00
Red snapper						
	1983					
		Weekend	0.00	0.00	0.00	2.25 ± 1.61
		Weekday		0.02 ± 0.02	0.00	0.10 ± 0.08
	1984					
		Weekend		0.00	0.00	0.94 ± 0.94
		Weekday			0.00	0.01 ± 0.01
	1985					
		Weekend			0.46 ± 0.43	0.17 ± 0.15
		Weekday	0.15 ± 0.15		0.00	0.36 ± 0.29
						0.06 ± 0.06
Sand seatrout						
	1983					
		Weekend	0.00	0.00	0.00	0.00
		Weekday		0.00	0.00	0.00
	1984					
		Weekend		0.00	0.00	0.00
		Weekday			0.00	0.00
	1985					
		Weekend			0.00	0.00
		Weekday	0.00		0.00	0.00
Spanish mackerel						
	1983					
		Weekend	0.03 ± 0.03	0.00	0.01 ± 0.01	0.00
		Weekday		0.00	0.00	0.01 ± 0.01
	1984					
		Weekend		0.00	0.00	0.02 ± 0.02
		Weekday			0.00	<.01 ± <.01
	1985					
		Weekend			0.00	0.00
		Weekday	0.02 ± 0.02		0.00	0.01 ± 0.01

Table K.7. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout					
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1985					
Weekend			0.00	0.00	0.00
Weekday	0.00		0.00	0.00	0.00
Vermilion snapper					
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend		0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00
1985					
Weekend			0.00	0.00	0.00
Weekday	0.00		0.00	0.00	0.00
Other species					
1983					
Weekend	0.03 ± 0.02	0.00	0.08 ± 0.08	0.13 ± 0.11	0.07 ± 0.05
Weekday		0.02 ± 0.02	0.16 ± 0.15	0.14 ± 0.12	0.16 ± 0.15
1984					
Weekend		0.06 ± 0.06	0.02 ± 0.02	0.07 ± 0.07	0.03 ± 0.02
Weekday			0.06 ± 0.04	0.11 ± 0.10	0.08 ± 0.05
1985					
Weekend			0.07	0.82 ± 0.79	0.33
Weekday	0.06 ± 0.06		0.13 ± 0.13	0.19 ± 0.14	0.13 ± 0.09
All species combined <sup>a</sup>					
1983					
Weekend	0.26 ± 0.25	0.00	0.19 ± 0.18	2.37 ± 1.66	0.30 ± 0.20
Weekday		0.18 ± 0.18	0.29 ± 0.21	0.18 ± 0.15	0.28 ± 0.20
1984					
Weekend		0.11 ± 0.11	0.08 ± 0.06	1.25 ± 1.25	0.10 ± 0.06
Weekday			0.55 ± 0.40	0.11 ± 0.10	0.38 ± 0.25
1985					
Weekend			0.56 ± 0.49	1.00 ± 0.90	0.72 ± 0.48
Weekday	0.32 ± 0.32		0.38 ± 0.38	0.21 ± 0.15	0.27 ± 0.18

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.8. Mean catch rates of fishes (No./man-h)  $\pm$  1 SE caught by party-boat fishermen in the FCZ during the low-use season by species, day type and area (1983-1986). Blank = no fishermen interviewed.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Atlantic croaker						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend			0.00	0.00
		Weekday				
	1985-86					
		Weekend				
		Weekday				
Atlantic sharpnose shark						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend			0.00	0.00
		Weekday				
	1985-86					
		Weekend				
		Weekday				
Cobia						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend			0.00	0.00
		Weekday				
	1985-86					
		Weekend				
		Weekday				
King mackerel						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend			0.00	0.00
		Weekday				
	1985-86					
		Weekend				
		Weekday				

Table K.8. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red drum					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
Red snapper					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
Sand seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					



Table K.8. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
Vermilion snapper					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
Other species					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.24 ± 0.24	0.24 ± 0.24
Weekday					
1985-86					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.24 ± 0.24	0.24 ± 0.24
Weekday					
1985-86					
Weekend					
Weekday					

<sup>a</sup>Due to rounding of numbers, these totals may not exactly equal individual totals.

Table K.9. Annual mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84					
1984-85					
1985-86					
Atlantic sharpnose shark					
1983-84					
1984-85					
1985-86				4.49	4.49
Cobia					
1983-84					
1984-85					
1985-86					
King mackerel					
1983-84	9.33	14.24	9.55 $\pm$ 0.73	5.49 $\pm$ 0.93	9.49 $\pm$ 1.81
1984-85		7.76	9.97 $\pm$ 1.87	4.83	9.90 $\pm$ 1.93
1985-86	5.68		8.33	13.34	7.43
Red drum					
1983-84					
1984-85					
1985-86					
Red snapper					
1983-84		2.12		0.68	0.69 $\pm$ 0.69
1984-85				1.01	1.01
1985-86	2.13			0.58 $\pm$ 0.18	1.36 $\pm$ 1.16
Sand seatrout					
1983-84					
1984-85					
1985-86					
Spanish mackerel					
1983-84	1.01		1.12 $\pm$ 0.05		1.06 $\pm$ 0.59
1984-85				1.04	1.04
1985-86	1.94			1.83	1.90
Spotted seatrout					
1983-84					
1984-85					
1985-86					

Table K.9. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1983-84					
1984-85					
1985-86					
All species combined <sup>a</sup>					
1983-84	7.20 ± 7.20	12.50 ± 12.50	15.17 ± 7.14	1.56 ± 1.04	12.92 ± 6.38
1984-85		7.70 ± 7.70	10.93 ± 1.19	2.70 ± 2.70	8.91 ± 1.61
1985-86	3.30		8.80	2.09 ± 1.52	5.07 ± 4.81

<sup>a</sup>Includes "other" species.

Table K.10. Mean weights of fishes (kg/fish)  $\pm$  1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1985). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
	1983					
	Weekend		--			
	Weekday					
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					
Atlantic sharpnose shark						
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend				4.49	4.49
	Weekday					
Cobia						
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					
King mackerel						
	1983					
	Weekend	9.33		8.56 $\pm$ 0.42	10.67	8.94 $\pm$ 4.76
	Weekday		14.24	10.19 $\pm$ 0.60	4.84 $\pm$ 0.46	10.10 $\pm$ 0.68
	1984					
	Weekend		7.76	7.07	4.83	6.98 $\pm$ 6.98
	Weekday			10.74 $\pm$ 1.92		10.74 $\pm$ 1.92
	1985					
	Weekend					
	Weekday	5.68		8.33	13.34	7.29

Table K.10. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Red drum						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
Red snapper						
	1983					
		Weekend			0.68	0.68
		Weekday	2.12			2.12
	1984					
		Weekend			1.01	1.01
		Weekday				
	1985					
		Weekend			0.58 ± 0.18	0.58 ± 0.18
		Weekday	2.13			2.13
Sand seatrout						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
Spanish mackerel						
	1983					
		Weekend	1.01		1.12 ± 0.05	1.06 ± 0.59
		Weekday				
	1984					
		Weekend			1.04	1.04
		Weekday				
	1985					
		Weekend				
		Weekday	1.94		1.83	1.90

Table K.10. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend					
Weekday					
Vermilion snapper					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend					
Weekday					
All species combined <sup>a</sup>					
1983					
Weekend	7.20 ± 7.20		7.32 ± 0.60	0.68 ± 0.16	4.77 ± 1.95
Weekday		12.50 ± 12.50	22.46 ± 14.67	4.80 ± 0.44	21.67 ± 14.05
1984					
Weekend		7.70 ± 7.70	7.00 ± 7.00	2.70 ± 2.70	6.28 ± 6.28
Weekday			11.44 ± 0.85		11.44 ± 0.85
1985					
Weekend				0.72 ± 0.30	0.72 ± 0.30
Weekday	3.30		8.80	6.40 ± 5.52	5.53 ± 5.22

<sup>a</sup>Includes "other" species.

Table K.11. Annual mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
1983-84						
1984-85						
1985-86						
Atlantic sharpnose shark						
1983-84						
1984-85						
1985-86					8.64	8.64
Cobia						
1983-84						
1984-85						
1985-86						
King mackerel						
1983-84	974	1136	990 $\pm$ 23	832 $\pm$ 40	985 $\pm$ 139	
1984-85		941	1001 $\pm$ 62	812	825 $\pm$ 75	
1985-86	853		953	1130	919	
Red drum						
1983-84						
1984-85						
1985-86						
Red snapper						
1983-84		530		354	357 $\pm$ 177	
1984-85				407	407	
1985-86	454			340 $\pm$ 32	398 $\pm$ 245	
Sand seatrout						
1983-84						
1984-85						
1985-86						
Spanish mackerel						
1983-84	578		603 $\pm$ 8		588 $\pm$ 227	
1984-85				588	588	
1985-86	729			714	724	
Spotted seatrout						
1983-84						
1984-85						
1985-86						

Table K.11. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1983-84					
1984-85					
1985-86					
All species combined <sup>a</sup>					
1983-84	738 ± 236	768 ± 363	970 ± 67	421 ± 65	867 ± 105
1984-85		756 ± 756	868 ± 8	614 ± 16	806 ± 14
1985-86	552		895	531 ± 79	687 ± 482

<sup>a</sup>Includes "other" species.



Table K.12. Mean total lengths of fishes (mm/fish)  $\pm$  1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1985). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
	1985						
		Weekend					
		Weekday					
Atlantic sharpnose shark							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
	1985						
		Weekend				864	864
		Weekday					
Cobia							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
	1985						
		Weekend					
		Weekday					
King mackerel							
	1983						
		Weekend	974		960 $\pm$ 15	1051	965 $\pm$ 448
		Weekday		1136	1010 $\pm$ 20	805 $\pm$ 20	1007 $\pm$ 25
	1984						
		Weekend		941	918	812	914 $\pm$ 871
		Weekday			1024 $\pm$ 69		1024 $\pm$ 69
	1985						
		Weekend					
		Weekday	853		953	1130	913

Table K.12. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
Red drum						
	1983					
	Weekend					
	Weekday					
	1984		--			
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					
Red snapper						
	1983					
	Weekend				354	354
	Weekday		530			530
	1984					
	Weekend				407	407
	Weekday					
	1985					
	Weekend				340 ± 32	340 ± 32
	Weekday	454				454
Sand seatrout						
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
	1985					
	Weekend					
	Weekday					
Spanish mackerel						
	1983					
	Weekend	578		603 ± 8		588 ± 227
	Weekday					
	1984					
	Weekend				588	588
	Weekday					
	1985					
	Weekend					
	Weekday	729			714	724

Table K.12. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
	1985						
		Weekend					
		Weekday					
Vermilion snapper							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
	1985						
		Weekend					
		Weekday					
All species combined <sup>a</sup>							
	1983						
		Weekend	738 ± 236		858 ± 32	360 ± 11	649 ± 151
		Weekday		768 ± 363	1074 ± 66	622 ± 49	1058 ± 66
	1984						
		Weekend		756 ± 756	914 ± 914	628 ± 628	857 ± 130
		Weekday			862 ± 3	567 ± 29	827 ± 6
	1985						
		Weekend				479 ± 92	479 ± 92
		Weekday	552		895	736 ± 63	688 ± 48

<sup>a</sup>Includes "other" species.

Table K.13. Percent composition of "other" species caught by party-boat fishermen in the FCZ by area, season and day type (1983-1986).

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Christi	Lower Laguna Madre	Coastwide	
1983-84	High use Weekend		Atlantic bonito	<u>Sarda sarda</u>				90.91	27.78	
			Blue fish	<u>Pomatomus saltatrix</u>	50.00				2.78	
			Blue runner	<u>Caranx crysos</u>				9.09	2.78	
			Crevalle jack	<u>Caranx hippos</u>			39.13		25.00	
			Dolphins sp.	Family <u>Coryphaenidae</u>						
			Dolphin	<u>Coryphaena hippurus</u>			13.04		8.33	
		Little tunny	<u>Euthynnus alletteratus</u>	50.00		47.83		33.33		
	Weekday		Atlantic bonito	<u>Sarda sarda</u>		100.00			80.00	53.19
			Bluefish	<u>Pomatomus saltatrix</u>			6.25			2.13
			Crevalle jack	<u>Caranx hippos</u>				3.33		2.13
			Dolphins sp.	Family <u>Coryphaenidae</u>						
			Dolphin	<u>Coryphaena hippurus</u>					3.33	2.13
		Little tunny	<u>Euthynnus alletteratus</u>					6.67	8.51	
		Sharks sp.								
		Blacktip shark	<u>Carcharhinus limbatus</u>			25.00			8.51	
		Dusky shark	<u>Carcharhinus obscurus</u>			12.50			4.26	
		Requiem sharks	Family <u>Carcharhinidae</u>			37.50			12.77	
		Scalloped hammerhead	<u>Sphyrna lewini</u>			6.25			2.13	
		Wahoo	<u>Acanthocybium solanderi</u>					6.67	4.26	
1984-85	High use Weekend		Crevalle jack	<u>Caranx hippos</u>				57.14	28.57	
			Dolphins sp.	Family <u>Coryphaenidae</u>						
			Dolphin	<u>Coryphaena hippurus</u>		100.00			100.00	64.29
			Smallmouth buffalo	<u>Ictiobus bubalus</u>					14.29	7.14
			Crevalle jack	<u>Caranx hippos</u>					6.67	4.35
			Dolphins sp.	Family <u>Coryphaenidae</u>						
	Weekday		Dolphin	<u>Coryphaena hippurus</u>					83.33	54.35
			Dolphin	<u>Coryphaena hippurus</u>						
			Crevalle jack	<u>Caranx hippos</u>						
			Dolphins sp.	Family <u>Coryphaenidae</u>						
			Dolphin	<u>Coryphaena hippurus</u>						
			Dolphin	<u>Coryphaena hippurus</u>						

Table K.13. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
	Little tunny Shark sp.	<u>Euthynnus alletteratus</u>			6.67	100.00	39.13	
	Blacktip shark	<u>Carcharhinus limbatus</u>			3.33		2.17	
Low use Weekend	Little tunny	<u>Euthynnus alletteratus</u>				100.00	100.00	
1985-86 High use Weekend	Blackfin tuna	<u>Thunnus atlanticus</u>				5.88	4.35	
	Little tunny	<u>Euthynnus alletteratus</u>				88.24	65.22	
	Sea basses sp.	Family Serranidae			8.33		2.17	
	Rock hind	<u>Epinephalus adscensionis</u>				5.88	4.35	
	Sharks sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>			8.33		2.17	
	Sheepshead	<u>Archosargus probatocephalus</u>			90.91		21.74	
Weekday	Blackfin tuna	<u>Thunnus atlanticus</u>				22.22	11.43	
	Blue runner	<u>Caranx crysos</u>				5.56	2.86	
	Crevalle jack	<u>Caranx hippos</u>		7.69			2.86	
	Dolphins sp.	Family Coryphaenidae						
	Dolphin	<u>Coryphaena hippurus</u>		23.08		22.22	20.00	
	Greater amberjack	<u>Seriola dumerili</u>	100.00				11.43	
	Little tunny	<u>Euthynnus alletteratus</u>		61.54		44.44	45.71	
	Sharks sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>		7.69			2.86	
	Silky shark	<u>Carcharhinus falciformes</u>				5.56	2.86	

Table K.14. Percent composition of the annual residential origin of party-boat fishermen-trips in the FCZ by area (1983-86). Blank = no fishermen interviewed.

Area Year	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1983-84	100	0	0	0
1984-85				
1985-86	100	0	0	0
Matagorda				
1983-84	30	20	50	0
1984-85	0	100	0	0
1985-86				
Corpus Christi				
1983-84	4	13	66	16
1984-85	9	24	60	7
1985-86	11	17	54	17
Lower Laguna Madre				
1983-84	17	26	57	0
1984-85	26	0	61	13
1985-86	10	22	54	15
Coastwide				
1983-84	18	16	57	9
1984-85	13	21	57	9
1985-86	17	18	50	15

Table K.15. Percent composition of the residential origin of party-boat fishermen-trips in the FCZ during the high-use season by area and day type (1983-1985). Blank = no fishermen interviewed.

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galvestion						
1983	100	0	0			
1984						
1985		100	0	0	0	0
Matagorda						
1983	25	0	0	33	33	0
1984	0	100	0			
1985						
Corpus Christi						
1983	6	9	14	3	18	18
1984	3	26	3	15	21	12
1985	21	21	0	0	12	38
Lower Laguna Madre						
1983	12	24	0	22	28	0
1984	20	0	0	21	0	0
1985	18	29	0	4	17	25
Coastwide						
1983	23	11	8	12	23	11
1984	4	33	2	17	13	8
1985	19	25	0	15	13	26

Table K.16. Percent composition of the residential origin of party-boat fishermen-trips in the FCZ during the low-use season by area and day type (1983-1986). Blank = no fishermen interviewed.

Area	Year	Weekend			Weekday		
		Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galveston	1983-84						
	1984-85						
	1985-86						
Matagorda	1983-84						
	1984-85						
	1985-86						
Corpus Christi	1983-84						
	1984-85						
	1985-86						
Lower Laguna Madre	1983-84						
	1984-85	43	0	57			
	1985-86						
Coastwide	1983-84						
	1984-85	43	0	57			
	1985-86						



Table K.17. Mean fishing-party size (No. of fishermen) and mean trip length (h) for party-boat fishermen in the FCZ by area, season and day type (1983-1986). Blank = no fishermen interviewed.

Area Year	Mean fishing-party size			Mean trip length		
	High-use season		Low-use season	High-use season		Low-use season
	Weekend	Weekday	Weekend	Weekend	Weekday	Annual
Galveston						
1983-84	5.0			8.0		8.0
1984-85						
1985-86		6.0			11.0	11.0
Matagorda						
1983-84	4.0	6.0		4.0	8.5	6.2
1984-85	6.0			10.5		10.5
1985-86						
Corpus Christi						
1983-84	4.4	4.1		7.8	7.9	7.8
1984-85	5.8	3.0		8.2	8.0	8.1
1985-86	4.8	3.2		8.5	6.6	7.4
Lower Laguna Madre						
1983-84	3.4	3.0		8.1	12.8	10.6
1984-85	5.0	4.8	7.0	8.5	5.2	5.9
1985-86	4.2	3.4		6.9	5.8	6.2
Coastwide						
1983-84	4.1	3.8		7.7	9.9	8.7
1984-85	5.8	3.5	7.0	8.6	7.3	7.7
1985-86	4.5	3.5		7.7	6.5	7.0

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