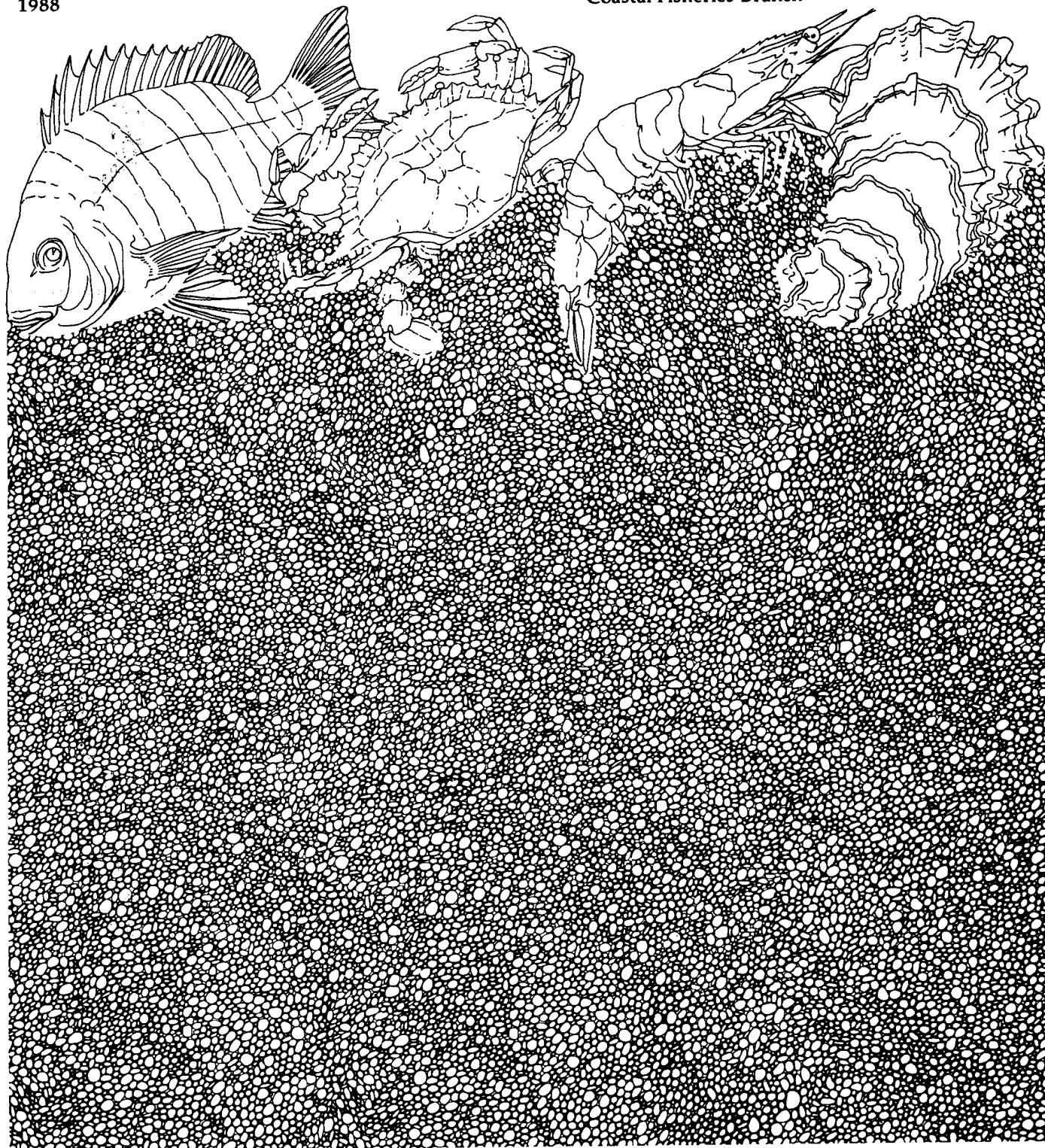


Trends in Finfish Landings By Sport-Boat Fishermen In Texas Marine Waters, May 1974-May 1987

by Hal R. Osburn, Maury F. Osborn and Henry R. Maddux

Management Data Series Number 150
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Texas Parks and Wildlife Department
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TRENDS IN FINFISH LANDINGS BY SPORT-BOAT FISHERMEN
IN TEXAS MARINE WATERS, MAY 1974-MAY 1987

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, respectively. The total estimated sport-boat fishing pressure and landings of finfish in 1986-87 was 7,264,600 man-h and 2,825,700 fish, respectively. Pressure and landings increased 14% and 29%, respectively, from 1985-86 to 1986-87. Sport-boat fishing in bays and passes accounted for 93% of the pressure and 95% of the landings in 1986-87. In the same year, private-boat fishermen exerted 95% of the pressure and landed 91% of the fish. The high-use season (15 May-20 November 1986) accounted for 65% of the pressure and 72% of the landings.

Thirty-eight percent of the 8-year mean annual coastwide private-boat bay and pass fishing pressure and 44% of the landings occurred in the Galveston Bay system. Spotted seatrout (Cynoscion nebulosus) comprised 38% of the 8-year mean annual coastwide private-boat bay and pass landings. Catch rates for spotted seatrout caught by private-boat fishermen declined from 0.20 fish/man-h in 1983-84 to 0.08 fish/man-h in 1984-85 but increased to 0.14 fish/man-h in 1986-87. 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 and continued in 1986-87.

Party-boat fishermen bay and pass landings (± 1 SE) for 1986-87 (140,300 \pm 19,700 fish), although greater than the low of 67,600 \pm 15,000 fish (1984-85), remain well below the 261,800 \pm 61,000 fish estimated for 1983-84. Forty-one percent of the pressure and 41% of the landings occurred in the lower Laguna Madre system compared to only 6% of the coastwide pressure and landings in Galveston Bay system. Spotted seatrout accounted for over 70% of all landings for party-boat fishermen in the bays. Forty-six percent of all spotted seatrout and 39% of all red drum (Sciaenops ocellatus) landed by party-boats in the bays and passes were from the lower Laguna Madre system. Red drum landings coastwide in 1986-87 for party-boats were 22,400 \pm 4,300, up from 12,100 \pm 3,000 estimated for 1983-84.

Pressure in 1986-87 for bay and pass headboat fishermen was the lowest (108,900 \pm 10,800 man-h) of any year. Forty-four percent of the pressure and 45% of the landings occurred on weekends during the high-use season. Galveston Bay system accounted for 46% of the pressure and 60% of the landings. Sand seatrout (Cynoscion arenarius) comprised 65% of the landings of headboat fishermen; Atlantic croaker (Micropogonias undulatus) was the next most common species (17%).

Private-boat fishing pressure in the Texas Territorial Sea (TTS) for 1986-87 was 281,100 \pm 82,700 man-h, while fishermen landed an estimated 81,900 \pm 39,200 fish. The high-use season accounted for 91% of the annual

coastwide pressure and 81% of the landings. Sand seatrout accounted for 49% of all fishes landed; king mackerel (*Scomberomorus cavalla*) and red snapper (*Lutjanus campechanus*) accounted for 15% and 12%, respectively.

Pressure estimates for party-boat fishermen in the TTS ranged from 7,600 ± 6,000 man-h in 1986-87 to 46,500 ± 20,900 man-h in 1983-84. Ninety-four percent of the annual pressure and landings occurred during the high-use season. Corpus Christi and lower Laguna Madre areas combined accounted for 93% of the coastwide pressure and 91% of the landings. King mackerel represented 46% of the fish landed from the TTS.

Pressure in the Exclusive Economic Zone (EEZ) by private-boat fishermen in 1986-87 dropped to 189,000 ± 37,300 man-h from a record high in 1985-86 of 267,500 ± 45,600 man-h. High-use weekends accounted for 64% of the annual pressure and 46% of the landings. Although pressure was greatest in the Corpus Christi area of the EEZ (37%), the Galveston area had 44% of the landings for the past 5 years, Matagorda area 29%, and Corpus Christi area only 16% of the landings. Red snapper were the most often landed fish, accounting for 38% of the annual landings by private-boat fishermen in the EEZ. Sand seatrout were the second most often landed fish (18%) followed by king mackerel (15%).

Annual party-boat pressure in the EEZ decreased from 117,100 ± 46,400 man-h in 1983-84 to a low of 18,000 ± 6,000 man-h in 1985-86 and then increased in 1986-87 to 44,400 ± 18,100 man-h. High-use weekdays accounted for 68% of the pressure and landings. Sixty-six percent of the pressure and 63% of the landings (1983-84 to 1986-87) in the EEZ occurred off the Corpus Christi area. However, 73% of that pressure and 69% of those landings occurred in a single year, 1983-84. King mackerel accounted for 35% of the landings in the EEZ.

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 (Texas Parks and Wildlife Department 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, 1987). 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. Exclusive Economic Zone for all years for which data are available (1974-1987). The report also includes weekend and weekday bay and pass headboat landings for May 1983 to May 1987. 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. Exclusive Economic Zone (EEZ): 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 ≤ 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. Landings represent numbers of fish and all means are presented as mean ± 1 standard error.

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 EEZ fishing until May 1982. Estimates for TTS and EEZ 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 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 and beginning 21 November 1986 through termination of weekday samples at 1600 if no fishing interviews were conducted up to that time (Weixelman and Green 1984). Beginning 21 November 1985, low use season 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 the number of interviews conducted (Spiller et al. In press). 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 during daylight hours but prior to 1000 and after 1800 (unpublished TPWD data).

Interviewers recorded species (Gallaway 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 by 16% to 33% from 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 EEZ):

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

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 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 adjustment for 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:

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

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 EEZ) 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 adjustment for 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. Eight-year means (1979-80 to 1986-87) 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 during daylight hours but 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 1987, 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 1987 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 all fishing activity rather than just bay private-boat 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-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 1987, 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 or in person.

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

The 1986-87 estimated total sport-boat fishing pressure was the highest since surveys began in 1974. Pressure exceeded 7.2 million man-h and landings 2.8 million fish (Figure 1). These estimates represent an increase in pressure of 14% and landings of 29% from 1985-86 (Table 1).

Fishing in the bays and passes have accounted for most of the increase. Private-boat pressure and landings in the bays and passes were estimated from 144,000 fishermen interviews since 1974 (Appendix D, Tables D.1-D.2). Nearly 3,500 party and 10,800 headboat fishermen in the bays and passes were also interviewed (Appendix F, Table F.1; Appendix G, Table G.1). In the Texas Territorial Sea, nearly 7,000 private-boat and 250 party-boat fishermen were interviewed (Appendix H, Table H.1; Appendix I, Table I.1). Private-boat fishermen interviews outnumbered party-boat fishermen interviews from the Exclusive Economic Zone 6,500 to 425 (Appendix J, Table J.1; Appendix K, Table K.1).

Bays and Passes

Private-boat fishing

Although annual fishing pressure has generally increased since 1976-77, private-boat landings have decreased (Appendix D, Table D.3). Two notable exceptions were a marked decrease in pressure following a major fish kill during the freeze of 1983-84 and an increase in landings during 1986-87 (Figure 2). Coastwide annual landings declined from a high of 5,506,600 fish in 1974-76 to a low of 1,462,300 fish in 1984-85 (Appendix D, Table D.4). Since 1984-85, the year of lowest landings, landings have increased 67% to 2,439,200 fish landed. High-use weekends accounted for almost 40% of total pressure and one-third of the landings during the past 8 years (Figure 3). The highest percentage of landings, 44%, came from the high-use weekday period (Appendix D, Tables D.5-D.8). Although pressure was greatest on weekends, weekdays accounted for a greater portion of the landings during both low and high-use seasons.

The Galveston Bay system has accounted for a greater proportion of pressure and landings than any of the other bay systems along the Texas coast for the past 8 years. Thirty-eight percent of the mean annual coastwide pressure and 44% of the landings occurred there (Figure 4). The San Antonio Bay system accounted for only 4% of the coastwide pressure and landings.

Annual pressure in the Galveston Bay system has remained constant while landings have generally decreased (Figure 5). Pressure was estimated to be almost 2.2 million man-h in 1986-87. Although landings have generally decreased since 1974-76, mean annual landings for 1986-87 in the Galveston Bay system increased to 1.1 million fish, the highest level since 1980-81. The Matagorda Bay system accounted for only 11% of the mean annual coastwide pressure; however, 1986-87 was the highest level (814,900 man-h) since creel data collection was initiated in 1974-76 (Figure 6). With the exception of the lower Laguna Madre system, pressure in all other bays remained near 1985-86 levels (Figures 7-11). Landings increased or remained the same in all the bay systems.

Texas bays yielded an assortment of fishes to private-boat fishermen. Spotted seatrout (Cynoscion nebulosus) comprised 38% of all fish landed in bay systems (Figure 12). Sand seatrout (C. arenarius), Atlantic croaker (Micropogonias undulatus), southern flounder (Paralichthys lethostigma), and red drum (Sciaenops ocellatus) accounted for an additional 45% of the landings. The Galveston Bay system had the

highest percentage of annual coastwide landings of Atlantic croaker, black drum (*Pogonias cromis*), gafftopsail catfish (*Bagre marinus*), red drum, sand seatrout, sheepshead (*Archosargus probatocephalus*), southern flounder, and spotted seatrout (Figures 13-14). Red drum and spotted seatrout were landed in similar proportions in all bay systems. Species classified as "other" accounted for 7% of the fishes landed (Appendix D, Table D.22).

Atlantic croaker has been the third most landed fish over the past 8 years. During that time, landings and catch per unit of effort (CPUE) generally decreased until 1981-82 and has since remained fairly constant near 300,000 fish landed and 0.05 fish/man-h (Figure 15) (Appendix D, Tables D.4, D.9-D.13). Mean length and weight of fish declined after 1983-84 but appear to be increasing, although not to former levels. Mean length and weight of Atlantic croaker in 1986-87 landings were 250 ± 7 mm and 0.21 ± 0.01 kg, respectively (Appendix D, Tables D.14-D.21).

A notable decline in landings and CPUE of black drum occurred in 1983-84 (Figure 16). However, landings and CPUE have leveled and 1986-87 estimates were similar to the three previous years at 57,900 fish and 0.1 fish/man-h, respectively. Even though mean length and weight fluctuated, there appears to be little difference among years.

There was no clear pattern in gafftopsail catfish landings or CPUE (Figure 17). Landings for 1986-87 were $18,300 \pm 4,100$ fish. However, mean fish length and weight have generally declined from earlier surveys. The mean length and weight for gafftopsail catfish landed in 1986-87 was 452 ± 18 mm and 1.01 ± 0.12 kg, respectively.

The greatest change in landings of red drum by private-boat fishermen in the bays has been in mean fish length and weight. Mean length (550 ± 7 mm) and weight (1.90 ± 0.08 kg) are at the highest levels for the 12-year reporting period (Figure 18). Although landings for red drum have increased to $266,800 \pm 22,700$ fish landed since 1984-85 and CPUE has increased to $0.04 \pm <0.01$ fish/man-h since 1982-83, there is not a clear trend.

Sand seatrout landings, CPUE, mean length, and mean weight have generally declined since 1974-76. Landings of $368,600 \pm 69,400$ in 1986-87 are near those reported since 1981-82 (Figure 19). Their mean length of 282 ± 5 mm in 1986-87 was near that reported in 1985-86.

Sheepshead and southern flounder 1986-87 landings appear similar to those in 1974-76. Although landings of sheepshead have increased from $48,200 \pm 7,100$ in 1985-86 to $89,100 \pm 25,600$ in 1986-87, mean fish length and weight declined (Figure 20). With the exception of 1979-80, southern flounder landings and CPUE have remained fairly constant (Figure 21). Mean length (369 ± 5 mm) and weight (0.64 ± 0.03 kg) of southern flounder landed in 1986-87 appear to have exceeded 1985-86 estimates, but seem similar to estimates prior to 1982-83.

Spotted seatrout was the species most often landed by private-boat bay fishermen over the past 8 years. Landings in 1986-87 of $883,900 \pm 63,900$

fish was 179% higher than the 1984-85 landings, which was the lowest estimate from 1974-1987 (Figure 22). CPUE has also increased since 1984-85 to a mean of 0.14 fish/man-h but remains well below 0.47 fish/man-h reported in 1977-78.

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

Increases in fishing license sales and boat registration suggest increased fishing and recreational activities in Texas waters. Since 1956, the number of fishing licenses sold in Texas has increased from approximately 458,400 to nearly 1.9 million annually (Figure 23) (Appendix E, Table E.1). The number of recreational boats registered statewide has increased 25% since 1976 (Appendix E, Table E.2).

Party-boat fishing

Party-boat fishermen have been routinely monitored since May 1983. Typical mean annual coastwide pressure for this group has remained between 200,000-250,000 man-h, except for 1984-85 (Fig. 24) (Appendix F, Table F.4). Landings for 1986-87 ($140,300 \pm 19,700$ fish), although greater than the low of $67,600 \pm 15,000$ (1984-85), remain well below the $261,800 \pm 61,000$ man-h estimated for 1983-84 (Appendix F, Table F.3). Over 47% of the mean annual coastwide pressure occurred on weekdays during the high-use season (Figure 25) (Appendix F, Tables F.4-F.5).

Unlike private-boat pressure and landings which were greatest in the Galveston Bay system, party-boat pressure and landings were greatest in the lower Laguna Madre system (Figure 26). Forty-one percent of the pressure and landings occurred in the lower Laguna Madre system compared to only 6% of coastwide pressure and landings in the Galveston Bay system. Pressure and landings have remained below 21,000 man-h and 21,000 fish in the Galveston, Matagorda, and San Antonio Bay systems from 1983-87. Pressure and landings estimates for the Aransas and Corpus Christi Bay systems, although often exceeding 25,000 man-h and 25,000 fish landed, do not show a clear trend in either pressure or landings. In the upper Laguna Madre system, pressure increased since 1984-85 although landings are still less than 12,000 fish. In the lower Laguna Madre system pressure estimates in 1986-87 of $80,500 \pm 17,900$ man-h are comparable to previous years. However, landings for 1986-87 of $55,400 \pm 11,700$ appear to have increased somewhat from 1985-86 but still remain below the estimated high of $86,900 \pm 15,100$ in 1983-84.

Red drum and spotted seatrout were the most often landed species by party-boat bay fishermen (Figure 27). Spotted seatrout accounted for over 70% of all landings. When examined by bay system, 46% of all spotted seatrout and 39% of all red drum landed by party-boats in the bays and

passes were from the lower Laguna Madre system (Figure 28). Only 1% of the red drum and 6% of the spotted seatrout landed came from the Galveston Bay system. Fishes classified as "other" accounted for only 1% of the landings (Appendix F, Table F.16).

Landings of red drum appear to be increasing while spotted seatrout landings are decreasing. Red drum landings coastwide in 1986-87 were $22,400 \pm 4,300$, up from $12,100 \pm 3,000$ estimated for 1983-84 (Figure 29). CPUE remained near 0.10 fish/man-h, similar to estimates for 1984-85 and 1985-86 (Appendix F, Tables F.6-F.9). Since 1984-85, mean fish length and weight have fluctuated very little (Appendix F, Tables F.10-F.15). Although landings of spotted seatrout dropped drastically from 1983-84 to 1984-85, they have increased somewhat through 1986-87 to $94,900 \pm 15,000$ (Figure 30). The highest catch rates (0.77 ± 0.24 fish/man-h) were in 1983-84 whereas those in 1984-85 through 1986-87 ranged from 0.30-0.44 fish/man-h. Mean length and weight for spotted seatrout increased to 426 \pm 5 mm and 0.78 ± 0.04 kg in 1986-87.

Most party-boat fishing trips were made by fishermen from non-coastal counties. Fishermen from non-coastal counties represented 40-47% of all the party-boat fishing trips in the bays (Appendix F, Tables F.17-F.19). Mean fishing party size in 1986-87 of 3.5 ± 0.1 people was within the range (3.4-3.6 people) reported for previous years. Mean trip length of 7.2 h was the longest recorded from 1983-84 to 1986-87 (Appendix F, Table F.20).

Headboat fishing

Pressure and landings estimates for headboat fishermen in bays and passes decreased from 1985-86 to 1986-87 (Figure 31). Pressure in 1986-87 was the lowest ($108,900 \pm 10,800$ man-h) of any year during the monitoring period (Appendix G, Table G.2). Landings decreased from $232,000 \pm 59,000$ in 1985-86 to $96,500 \pm 13,900$ in 1986-87 (Appendix G, Table G.3). Forty-four percent of the pressure and 45% of the landings occurred on weekends during the high-use season (Figure 32) (Appendix G, Table G.4). The low-use season accounted for only 17% of the total pressure and 7% of the fish landed (Appendix G, Table G.5).

The Galveston Bay system accounted for most of the pressure (46%) and landings (60%) over the last eight years (Figure 33). However, pressure and landings for the Galveston Bay system decreased from 1985-86 to $51,200 \pm 7,600$ man-h (-52%) and $63,700 \pm 11,700$ fish (-58%) in 1986-87. The lower Laguna Madre system accounted for the least amount of pressure (19%) and landings (17%). Although there appeared to be differences in pressure and landings among years for the other bay systems, no clear trend was evident.

Sand seatrout and Atlantic croaker were the fishes most commonly landed by headboat fishermen. Sand seatrout comprised 66% of the landings and Atlantic croaker comprised 17% of the landings (Figure 34). "Other" species accounted for 17% of the landings (Appendix G, Table G.16). Almost all of the Atlantic croaker landed (96%) came from the Galveston Bay system (Figure 35). Sand seatrout, although most prevalent in the

Galveston Bay system (56%), was also well represented in the Corpus Christi Bay system (26%) and the lower Laguna Madre system (18%).

Landings of Atlantic croaker by headboat fishermen appear to be improving. Atlantic croaker landings ranged from $12,400 \pm 4,400$ in 1984-85 to a high of $32,200 \pm 8,600$ in 1986-87 (Figure 36). CPUE remained near 0.10 fish/man-h from 1983-84 to 1985-86, but increased sharply in 1986-87 to 0.30 ± 0.08 fish/man-h (Appendix G, Tables G.6-G.9). No noticeable change has occurred in fish length or weight (Appendix G, Tables G.10-G.15).

Landings of sand seatrout ranged from a high in 1985-86 of $177,800 \pm 51,800$ down to $45,800 \pm 9,900$ in 1986-87 (Figure 37). CPUE ranged from a low of 0.36 ± 0.10 in 1984-85 up to 0.85 ± 0.29 in 1985-86.

The majority (75%) of the 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 for high-use season weekend days (Appendix G, Table G.20). The annual coastwide mean fishing time ranged from 2.4-3.0 h.

Texas Territorial Sea

Private-boat fishing

Annual coastwide pressure and landings have varied from year to year in the Texas Territorial Sea (TTS). Mean annual pressure and landings in 1986-87 were the second highest reported for the five year period, 1982-1987 (Figure 38). However, large standard errors make trends difficult to discern. Pressure for 1986-87 was $281,100 \pm 82,700$ man-h while fishermen landed an estimated $81,900 \pm 39,200$ fish (Appendix H, Table H.2). The high-use season accounted for 91% of the annual coastwide pressure and 81% of the landings (Figure 3).

Only in the Galveston and Matagorda areas did 1986-87 landings from the TTS appear to increase above 1985-86 levels. The Corpus Christi area had the most TTS pressure (49%) but only 20% of the landings (Figure 39). The Matagorda area had most of the landings (52%); the smallest proportion of both pressure (7%) and landings (5%) were in the lower Laguna Madre area. Three of the four TTS areas showed slight increases in pressure during 1986-87. The Matagorda area had the largest rise in pressure increasing from $35,400 \pm 6,500$ man-h in 1985-86 to $118,900 \pm 61,400$ man-h in 1986-87. Landings in the Galveston and Matagorda areas increased to $47,700 \pm 35,300$ and $29,400 \pm 17,000$ fish, respectively in 1986-87 (Appendix H, Tables H.3-H.5).

The most commonly landed fishes from the TTS by private-boat fishermen were king mackerel (Scomberomorus cavalla), red snapper (Lutjanus campechanus), and sand seatrout. Sand seatrout comprised 49% of all fishes landed, followed by king mackerel (15%) and red snapper (12%) (Figure 40). Other species listed in Appendix H, Table H.15 made up 14% of all fishes landed. The Corpus Christi area had the greatest share of king mackerel landings from the TTS (63%) (Figure 41). Sand seatrout were most prevalent in the Matagorda area.

Estimated landings and catch rates of king mackerel have steadily decreased over the past 5 years (Figure 42). Landings decreased from $16,400 \pm 7,500$ in 1982-83 to $3,100 \pm 800$ in 1986-87. Generally, CPUE has followed a similar pattern, decreasing to a low of $0.01 \pm <0.01$ fish/man-h in 1986-87 (Appendix H, Tables H.6-H.8). Although there are slight differences in mean length and weight among years they follow no clear pattern (Appendix H, Tables H.9-H.14).

Generally, red snapper landings and CPUE have varied little since 1983-84 (Figure 43). Landings have remained less than 7,000 fish annually and CPUE has remained at or below 0.03 fish/man-h. Although red snapper mean length and weight appear to have increased slightly from 1982-83 through 1986-87, low numbers of measured fish make yearly comparisons difficult.

Landings and CPUE for sand seatrout are similar to those reported for 1982-83 and 1984-85 (Figure 44). Sand seatrout landings and CPUE during 1986-87 were estimated at $58,000 \pm 37,000$ and 0.21 ± 0.14 fish/man-h, respectively. Since 1983-84, mean fish length and weight has decreased to present values of 286 ± 6 mm and 0.26 ± 0.02 kg, respectively.

Most private-boat fishing trips in the TTS were made by fishermen from adjacent coastal (42%) and non-coastal (39%) counties (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) have remained constant through 1986-87 (Appendix H, Table H.19).

Party-boat

Landings have mirrored pressure for party-boats in the TTS (Figure 45). Pressure estimates for party-boat fishermen in the TTS have ranged from $7,600 \pm 6,000$ man-h in 1986-87 to $46,500 \pm 20,900$ man-h in 1983-84 (Appendix I, Table I.2). Ninety-four percent of the annual pressure and landings occurred during the high-use season (Figure 25). No party-boats were encountered on weekdays during the low-use season. Corpus Christi and lower Laguna Madre areas combined accounted for 93% of the coastwide pressure and 91% of the landings (Figure 46). Pressure and landings in Galveston and Matagorda areas generally were zero (Appendix I, Tables I.3-I.5). Pressure in the Corpus Christi area ranged from $25,300 \pm 17,400$ man-h in 1983-84 down to $7,200 \pm 6,000$ man-h in 1986-87. Landings declined from $9,500 \pm 6,400$ in 1983-84 to $1,400 \pm 1,200$ in 1986-87. Pressure and landing estimates in the lower Laguna Madre area followed a similar pattern to the Corpus Christi area, generally decreasing from 1983-84 to 1986-87.

Almost all landings of king mackerel (88%) from the TTS by party-boats occurred in the Corpus Christi area. King mackerel represented 46% of the fish landed from the TTS (Figure 27). The Corpus Christi area accounted for 50% of the total landings from the TTS (Figure 47). The Lower Laguna Madre area accounted for the only red snapper landing estimates from the TTS and 55% of all red snapper landed from the TTS and EEZ combined. "Other" species accounted for 19% of the TTS landings (Appendix I, Table I.16). There is no clear trend in king mackerel landings, however, the

1986-87 landings of 700 ± 700 was the lowest recorded (Figure 66). CPUE has ranged between 0.08 and 0.20 fish/man-hr (Appendix I, Tables I.6-I.9). Although mean length and weight appeared to be the highest estimated, there is no upward or downward trend (Appendix I, Tables I.10-I.15). No red snapper were landed in boat access site surveys in 1986-87. This is the general pattern from 1984-85 to 1986-87 making estimates of landings, CPUE, mean length and weight incomparable (Figure 49).

Non-coastal counties were the residential origin of the highest percentage of party-boat fishing trips each year (Appendix I, Tables I.17-I.19). From 1983-84 to 1985-86, 43% to 64% of party-boat fishing trips were made by residents from non-coastal counties; however, in 1986-87 this percentage rose to 76%. The annual coastwide mean fishing party size has ranged from 2.9-4.5 people in all years while mean trip length ranged from 5.5-6.8 h.

Exclusive Economic Zone

Private-boat

Fishing pressure by private-boat fishermen in the Exclusive Economic Zone (EEZ) declined 29% in 1986-87 from the 1985-86 record high level (Figure 50). Pressure in 1986-87 dropped to $189,000 \pm 37,300$ man-h from a record high in 1985-86 of $267,500 \pm 45,600$ man-h (Appendix J, Table J.2). However, landings by private-boat fishermen from the EEZ have averaged near 60,000 fish since a decline in landings from $124,800 \pm 40,900$ fish in 1982-83 (Appendix J, Table J.3). High-use weekends accounted for 64% of the annual pressure and 46% of the landings (Figure 3). Although fishermen during the low-use weekday period represented only 2% of the annual coastwide pressure, they landed 14% of the fishes (Appendix J, Tables J.4-J.5).

Most pressure in the EEZ was offshore from the Galveston and Corpus Christi Bay systems. Although pressure was greatest off the Corpus Christi area (37%), the Galveston area had 44% of the landings for the past 5 years, Matagorda area 29%, and Corpus Christi area only 16% of landings (Figure 51). Pressure in the EEZ for the Galveston area declined from $91,900 \pm 37,800$ man-h in 1982-83 to $30,500 \pm 11,100$ man-h in 1984-85. After an increase in 1985-86 to $114,500 \pm 40,400$ man-h, pressure decreased slightly in 1986-87 to $98,600 \pm 32,000$ man-h. Landings followed a similar pattern decreasing from 1982-83 to 1984-85, increasing in 1985-86 and decreasing again in 1986-87 to $26,000 \pm 10,300$ fish. After a decline in the Matagorda area in 1983-84, pressure has ranged from $27,100 \pm 8,300$ to $38,500 \pm 9,700$. Pressure and landings in the Corpus Christi area were similar from 1982-83 to 1985-86, however, pressure decreased to $39,400 \pm 15,100$ man-h and landings declined to $5,000 \pm 3,100$ in 1986-87. Pressure and landings in the lower Laguna Madre area showed a decrease since 1984-85.

Most of the red snapper and king mackerel landed from the EEZ were off the Galveston and Corpus Christi areas, respectively. Red snapper was the most often landed fish, accounting for 38% of the annual landings by private-boat fishermen in the EEZ (Figure 54). Sand seatrout were the second most often landed fish (18%) followed by king mackerel (15%). "Other"

fishes represented 24% of the landings (Appendix J, Table J.15). Of the king mackerel landed in the EEZ, the Corpus Christi area (40%) reported the most (Figure 55). Over 41% of the red snapper landed in the EEZ came from the Galveston area. Sand seatrout were divided fairly evenly between the Galveston (53%) and Matagorda areas (45%).

Although landings and CPUE for king mackerel have varied, mean length and weight remain similar from year to year (Figure 52). CPUE in 1983 of only 0.01 fish/man-h was well below 0.05 fish/man-h in 1985-86 and 1986-87 and 0.06 fish/man-h in 1982-83 and 1984-85 (Appendix J, Tables J.6-J.8). Except for an increase in mean weight in 1983-84, mean length and weight have varied little (Appendix J, Tables J.9-J.14). Landings of red snapper have ranged from $46,400 \pm 18,100$ in 1983-84 down to $16,900 \pm 6,200$ in 1986-87 (Figure 53). CPUE have followed landings, decreasing from a high of 0.24 ± 0.10 fish/man-h in 1983-84 to 0.09 ± 0.04 fish/man-h in 1986-87. Mean length and weight of red snapper appear to have been increasing from 1982-83 until a decrease in 1986-87.

Estimates of mean annual landings and CPUE of sand seatrout have remained stable since decreases from 1982-83 (Figure 54). Landings have remained below 6,000 fish from 1984-85 to 1986-87 since a high of $53,600 \pm 36,300$ in 1982-83. CPUE estimates were similar to landings with only 1982-83 being above 0.03 fish/man-h. No change in mean length and weight appear to have occurred from 1982-83 to 1986-87.

Fishermen origin, mean fishing party size, and mean trip length have remained constant. 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 (7.3-8.1 h) have also remained constant (Appendix J, Table J.19).

Party-boats

Pressure and landings by party-boat fishermen in the EEZ increased in 1986-87 to levels above 1985-86 (Figure 55). Annual pressure decreased from $117,100 \pm 46,400$ man-h in 1983-84 to a low of $18,000 \pm 6,000$ man-h in 1985-86 (Appendix K, Table K.2). Pressure increased in 1986-87 to $44,400 \pm 18,100$ man-h. After a drop in landings from $33,500 \pm 14,800$ in 1983-84 to $6,600 \pm 2,600$ in 1984-85 landings increased to $13,300 \pm 4,700$ in 1986-87 (Appendix K, Table K.3). High-use weekdays accounted for 68% of the annual pressure and landings (Figure 25). The low-use season represented only 3% of the annual pressure and landings (Appendix K, Tables K.4-K.5)

Most of the party-boat coastwide pressure and landings from the EEZ were reported from a single gulf area. Sixty-six percent of the pressure and 63% of the landings (1983-84 to 1986-87) in the EEZ occurred off the Corpus Christi area (Figure 56). However, 73% of the pressure and 69% of the landings occurred in a single year, 1983-84. Less than 2% of the EEZ pressure and 1% of the landings occurred in the Matagorda area. Pressure and landings in the Galveston, Matagorda, and lower Laguna Madre areas varied little. The only exceptions were slight increases in pressure in the Galveston and lower Laguna Madre areas for 1986-87.

Although more king mackerel were landed by party-boat fishermen in the EEZ than the TTS, they represented a smaller percentage of the landed fishes. King mackerel accounted for 35% of the landings in the EEZ whereas 49% were fishes classified as "other" (Figure 27) (Appendix K, Table K.13).

Landings and CPUE of king mackerel have increased slightly above estimates for 1985-86, which were the lowest for the reporting period (Figure 57). After a decrease in landings of king mackerel from 13,500 \pm 7,400 in 1983-84 to a low of 800 \pm 500 in 1985-86, landings rebounded slightly to 3,400 \pm 1,900. CPUE estimates for 1986-87 were 0.08 \pm 0.05 fish/man-h (Appendix K, Tables K.6-K.8).

As with king mackerel caught by private-boat fishermen, red snapper mean length and weight varied little (Appendix K, Tables K.9-K.12). Mean length was 421 \pm 5 mm and mean weight was 1.15 \pm 0.06 kg in 1986-87 (Figure 58). In 1984-85 estimates of landings (200 \pm 200) and CPUE (0.01 \pm 0.01) were lowest for the reported periods. Small sample sizes of landed red snapper make yearly comparisons difficult.

Similar to party-boat fishermen in the TTS, fishermen origin, mean party size, and mean trip length for party-boat fishermen in the EEZ has varied little. The majority (56%) of party-boat fishing trips originated from non-coastal residents in all years (Appendix K, Tables K.14-K.16). The mean fishing party size has ranged from 3.9-5.0 people and mean trip length from 7.0-8.7 h (Appendix K, Table K.17).

DISCUSSION

As participation in the saltwater fishery has increased over the past 12 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 Commission enacted possession and size limit regulations designed to restrict the harvest of spotted seatrout and red drum (Texas Parks and Wildlife Department 1979, 1981, 1983, 1985). 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 a minimum of 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 this 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 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, 1987; 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 variances 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. Annual and seasonal sport-boat fishing pressure (man-h x 1000) and finfish landings (No. x 1000) by year, area fished and strata (1983-1987).

Year Area Strata	High use		Low use		Annual ^a	
	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
Exclusive Economic 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 ^a	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
Exclusive Economic 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 ^a	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
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

Table 1. (Cont'd.)

Year Area Strata	High use		Low use		Annual ^a	
	Pressure	Landings	Pressure	Landings	Pressure	Landings
1985-86 (Cont'd.)						
Exclusive Economic 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 ^a	4029.8	1595.0	2363.5	594.8	6393.3	2189.7
1986-87						
Bay and Pass						
Private boat	4019.9	1721.4	2399.0	718.7	6419.0	2439.2
Party boat	151.2	97.5	63.5	44.9	213.7	140.3
Headboat	90.7	90.7	18.2	5.7	108.9	96.5
Total	4261.8	1909.6	2480.7	769.3	6741.6	2676.0
Territorial Sea						
Private boat	259.1	72.7	21.9	9.2	281.1	81.9
Party boat	7.3	1.3	0.4	0.6	7.6	1.9
Total	266.4	74.0	22.3	9.8	288.7	83.8
Exclusive Economic Zone						
Private boat	171.1	36.1	17.9	16.6	189.0	52.6
Party boat	41.2	12.5	3.2	0.8	44.4	13.3
Total	212.3	48.6	21.1	17.4	233.4	65.9
Grand Total ^a	4740.5	2032.2	2524.1	796.5	7263.7	2825.7

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

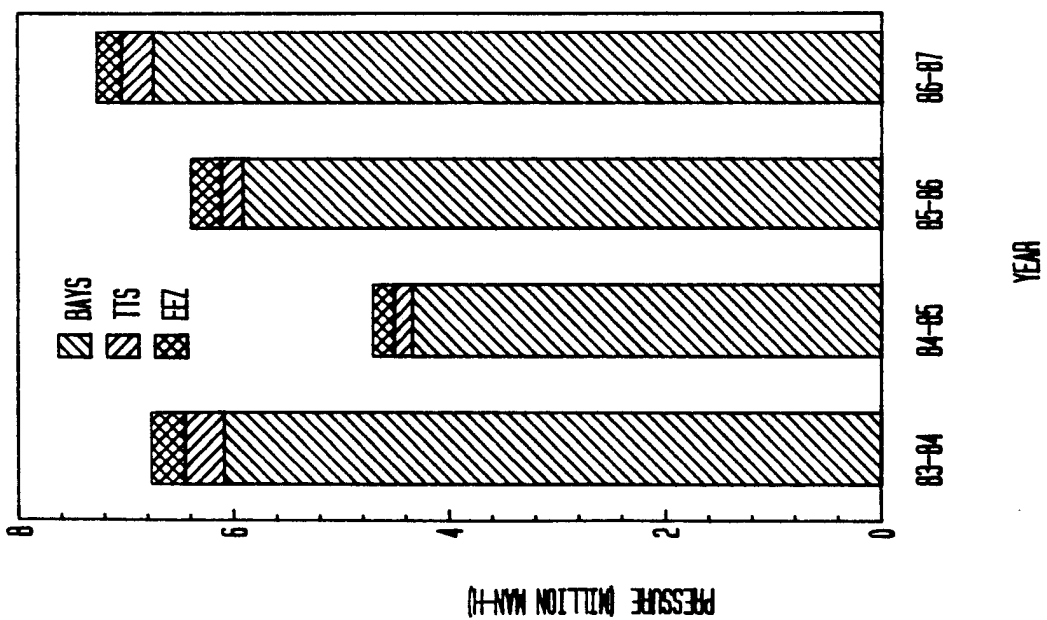
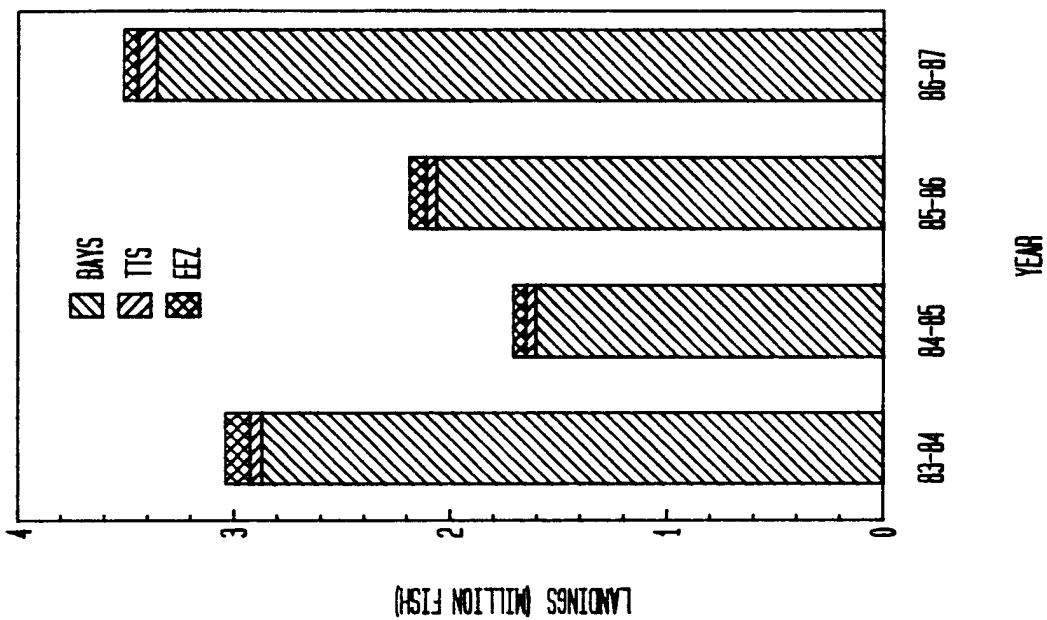


Figure 1. Coastwide annual sport-boat fishing pressure and landings in Texas bays and passes, Texas Territorial Sea (TTS) and Exclusive Economic Zone (EEZ), May 1974-May 1987.

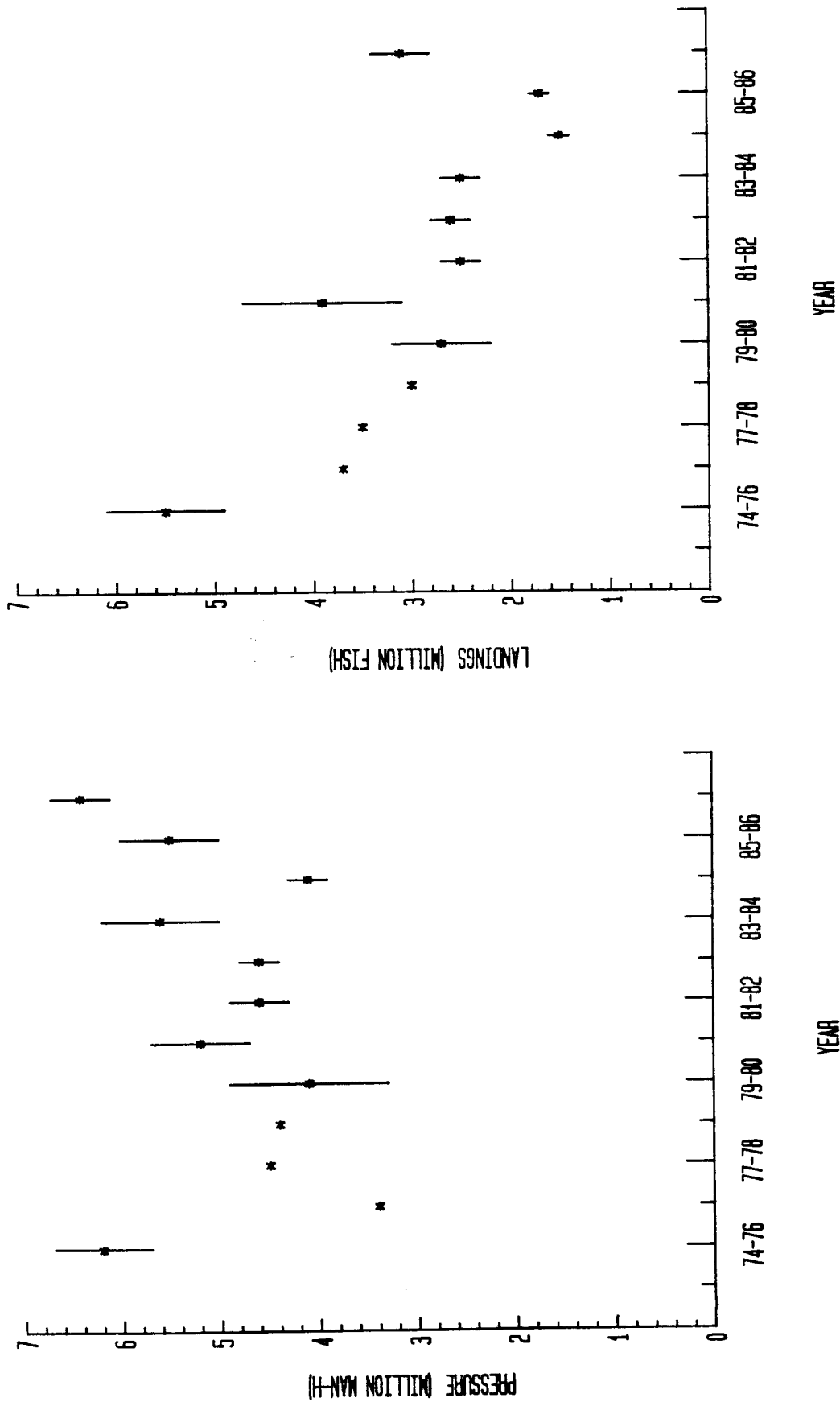


Figure 2. Coastwide annual private-boat fishing pressure (± 1 SE) and landings (± 1 SE) in Texas bays and passes, May 1974-May 1987.

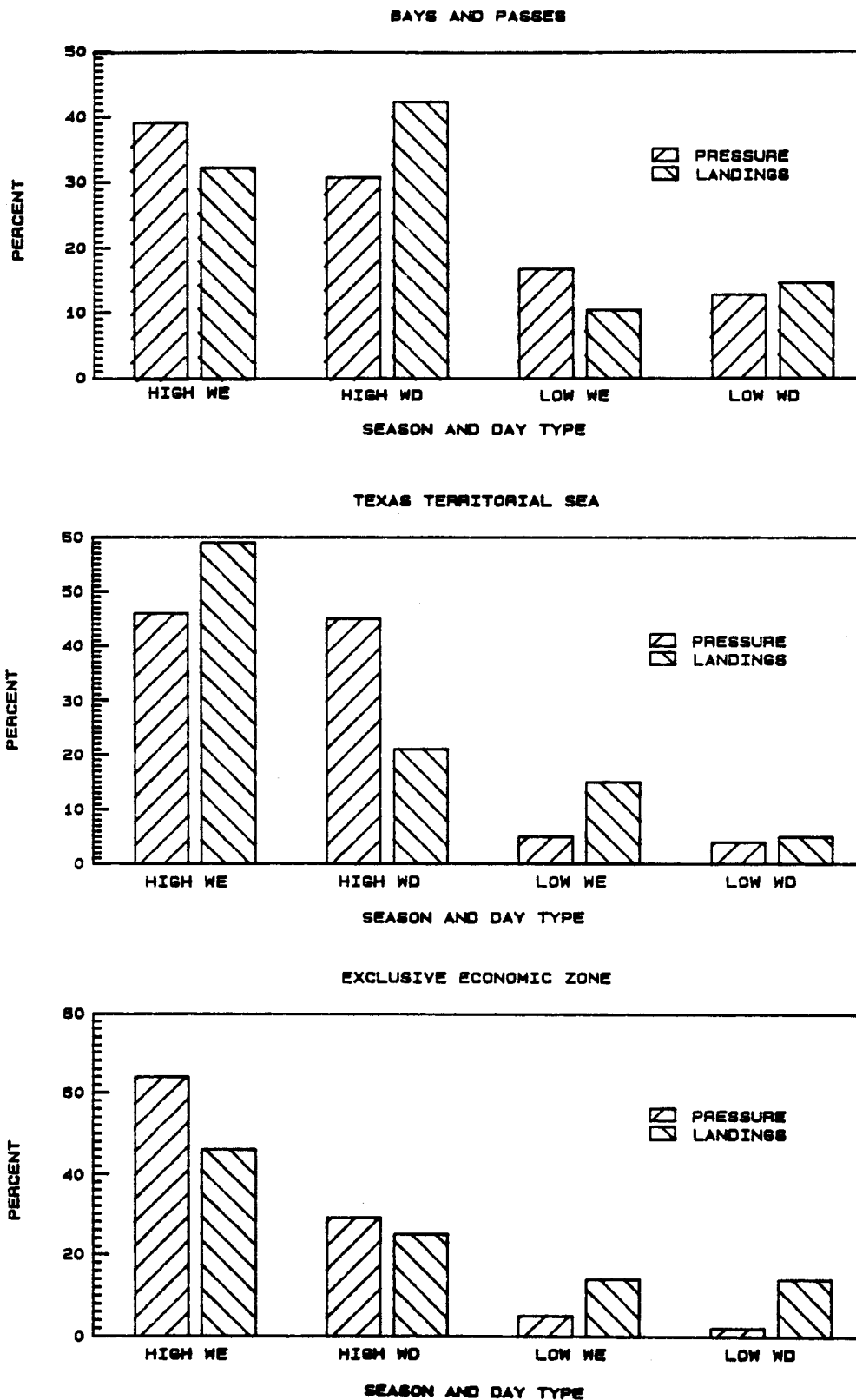


Figure 3. Percent distribution of annual coastwise bay and pass, Texas Territorial Sea, and Exclusive Economic Zone private-boat pressure and landings by season and day type, May 1979-May 1987 (8-year mean). WE=weekends,

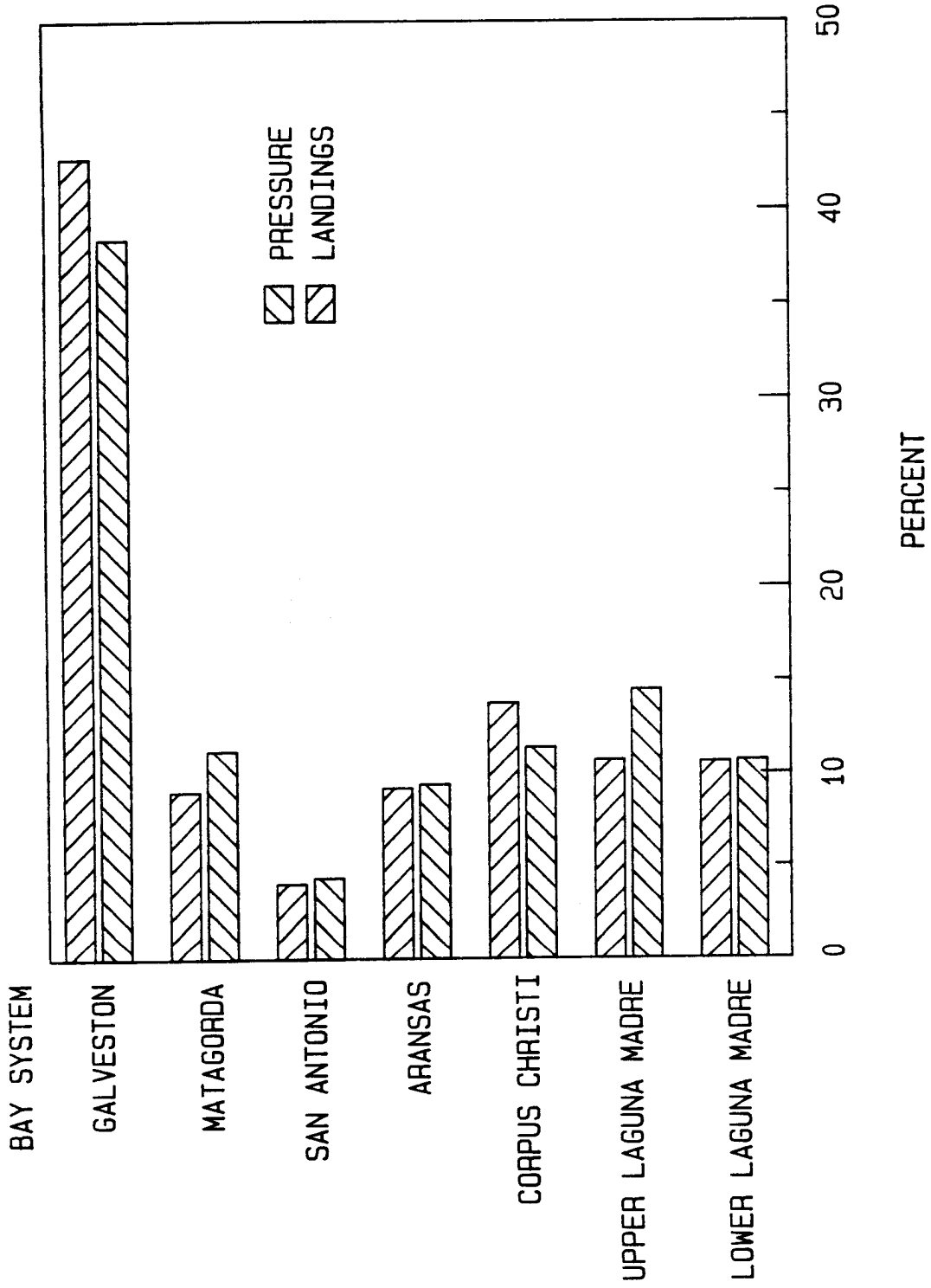


Figure 4. Percent distribution of annual bay and pass private-boat fishing pressure and landings among bay systems, May 1979-May 1987 (8-year mean).

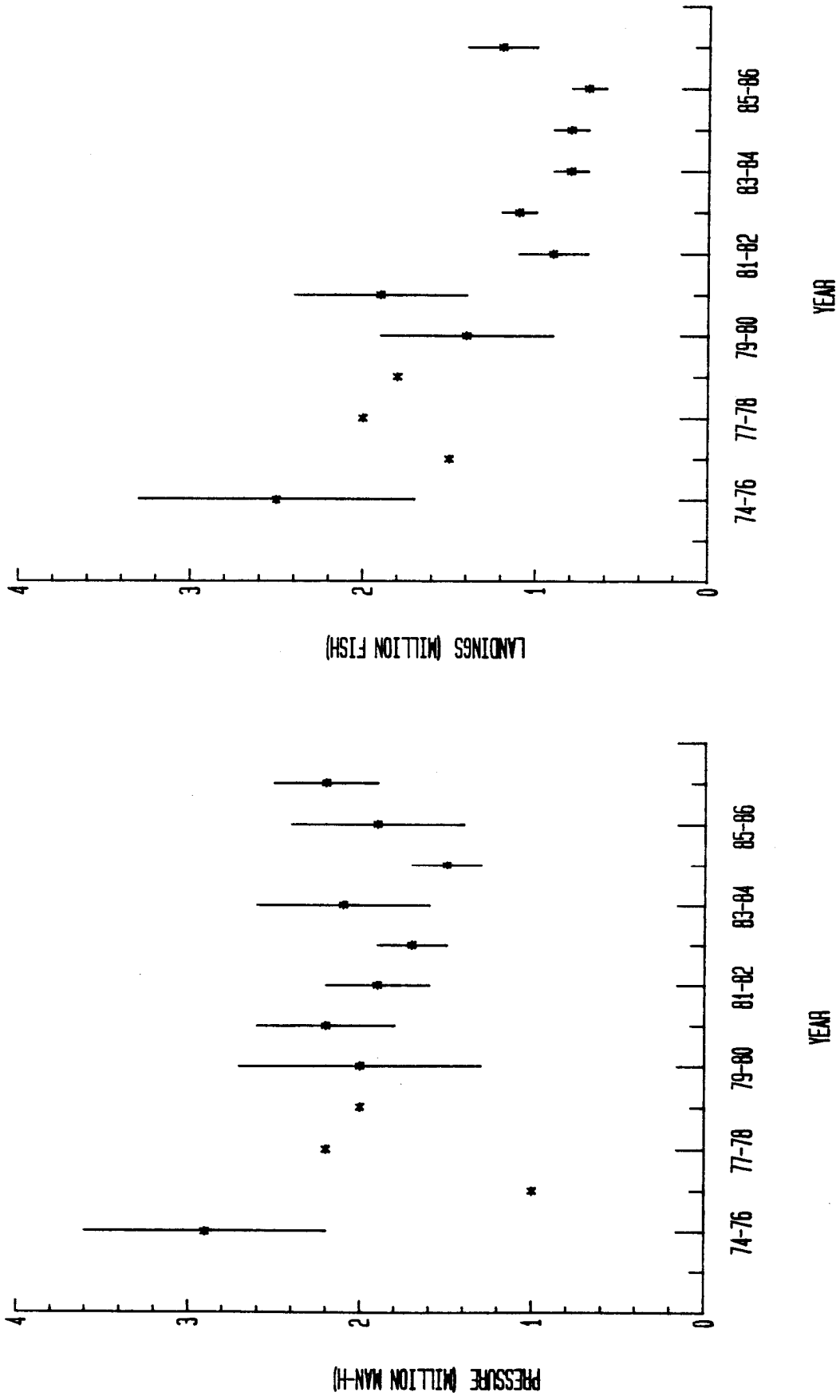


Figure 5. Annual bay and pass private-boat fishing pressure (+ 1 SE) and landings (+ 1 SE) for the Galveston Bay system, May 1974-May 1987.

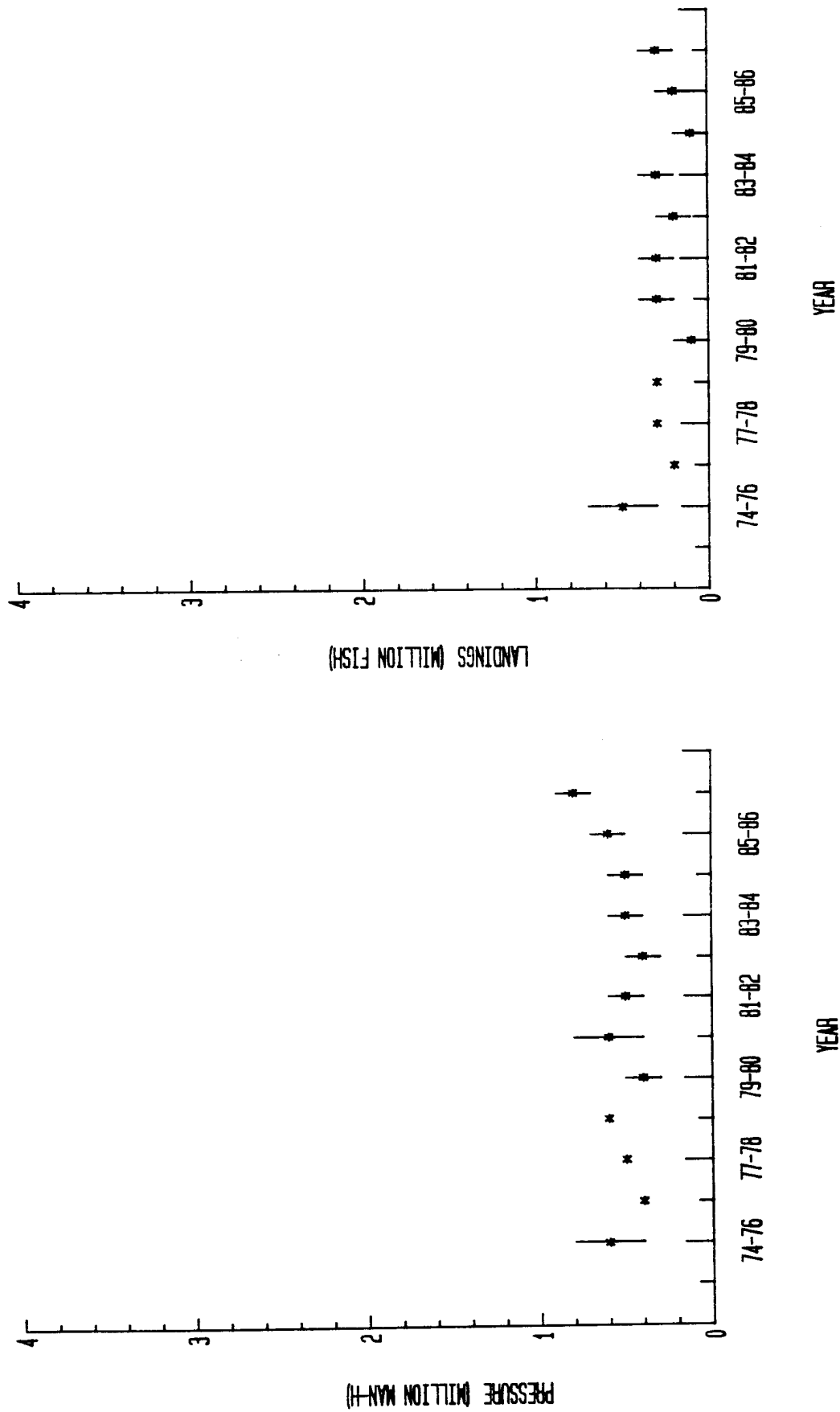


Figure 6. Annual bay and pass private-boat fishing pressure (+ 1 SE) and landings (+ 1 SE) for the Matagorda Bay system, May 1974-May 1987.

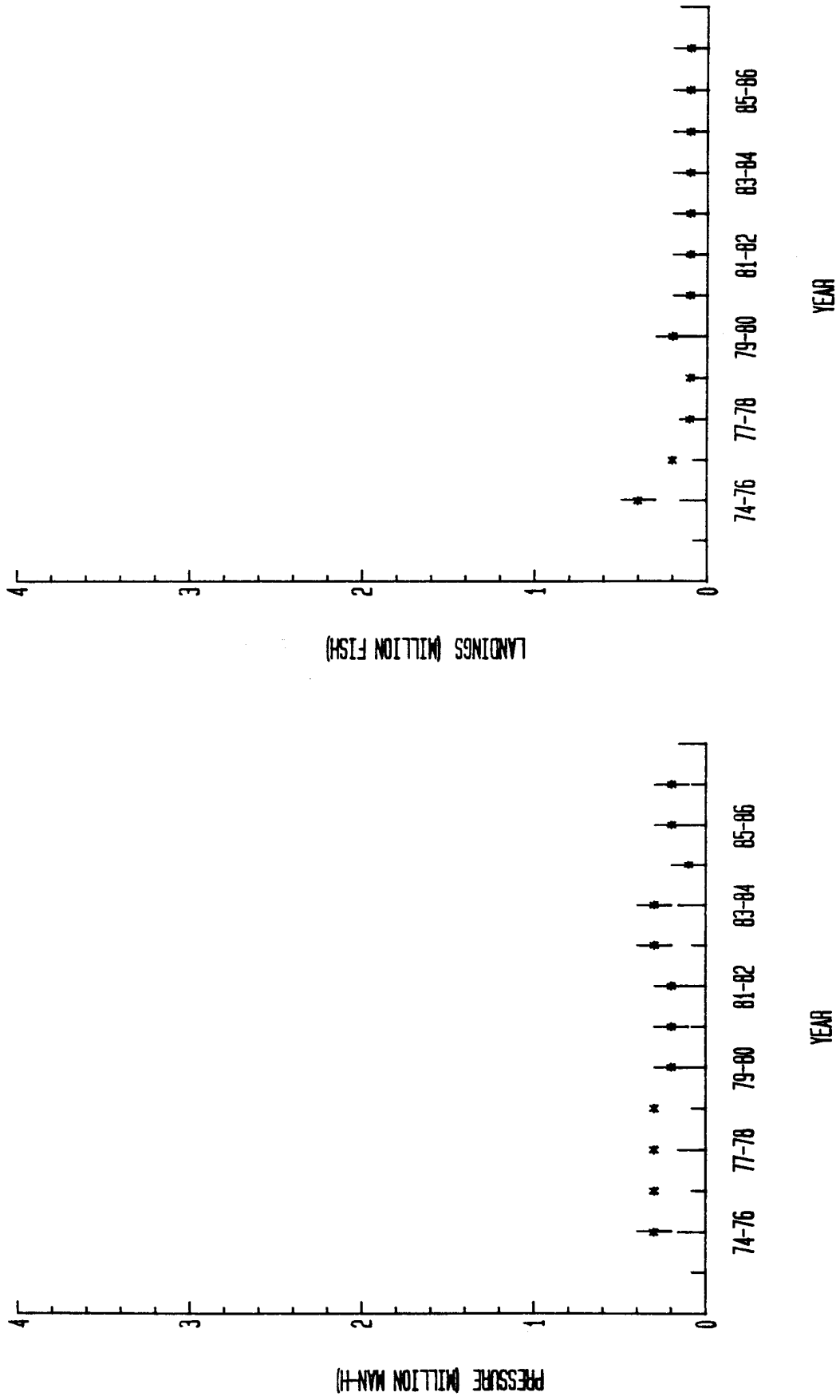


Figure 7. Annual bay and pass private-boat fishing pressure (+ 1 SE) and landings (+ 1 SE) for the San Antonio Bay system, May 1974-May 1987.

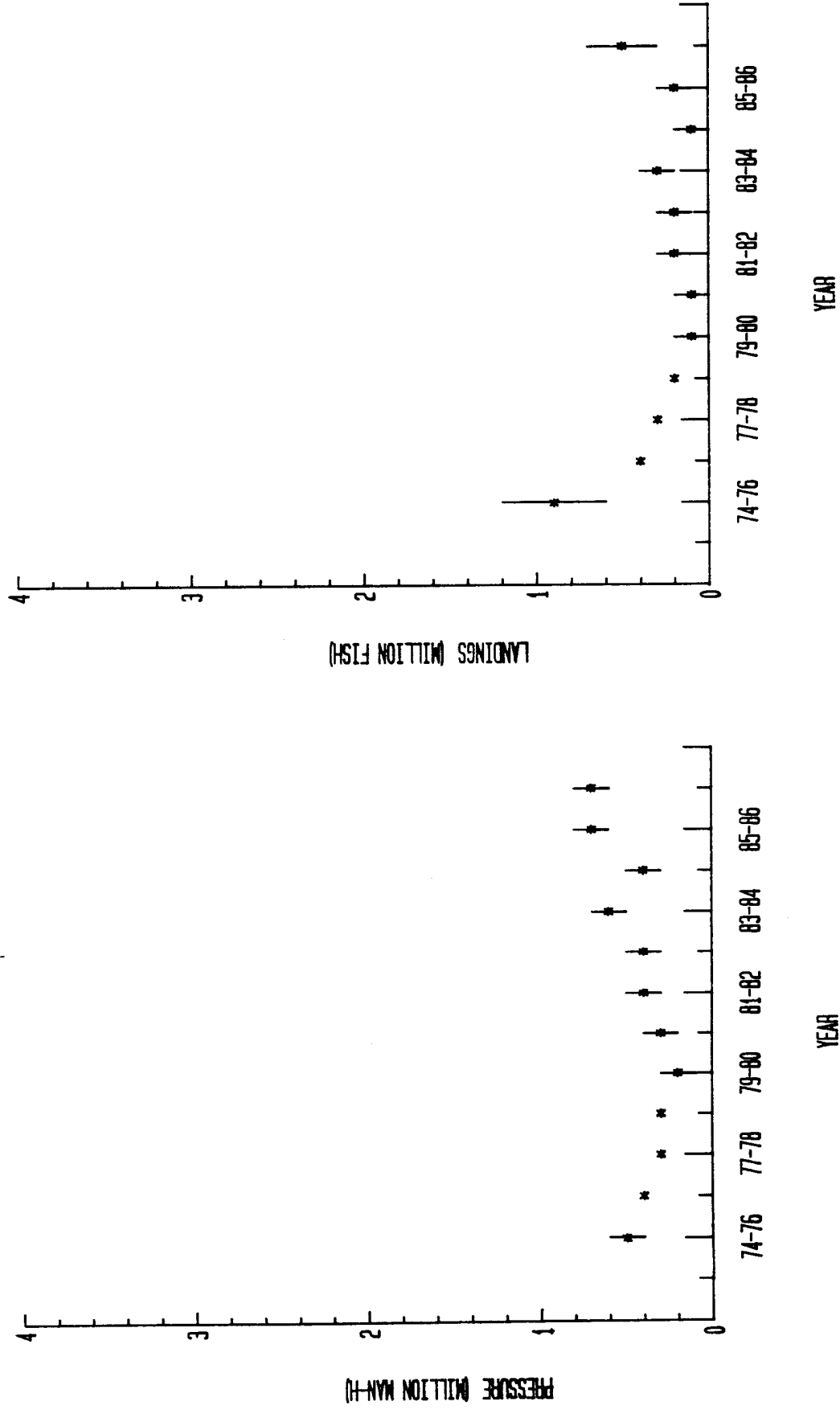


Figure 8. Annual Bay and pass private-boat fishing pressure (± 1 SE) and landings (± 1 SE) for the Aransas Bay system, May 1974-May 1987.

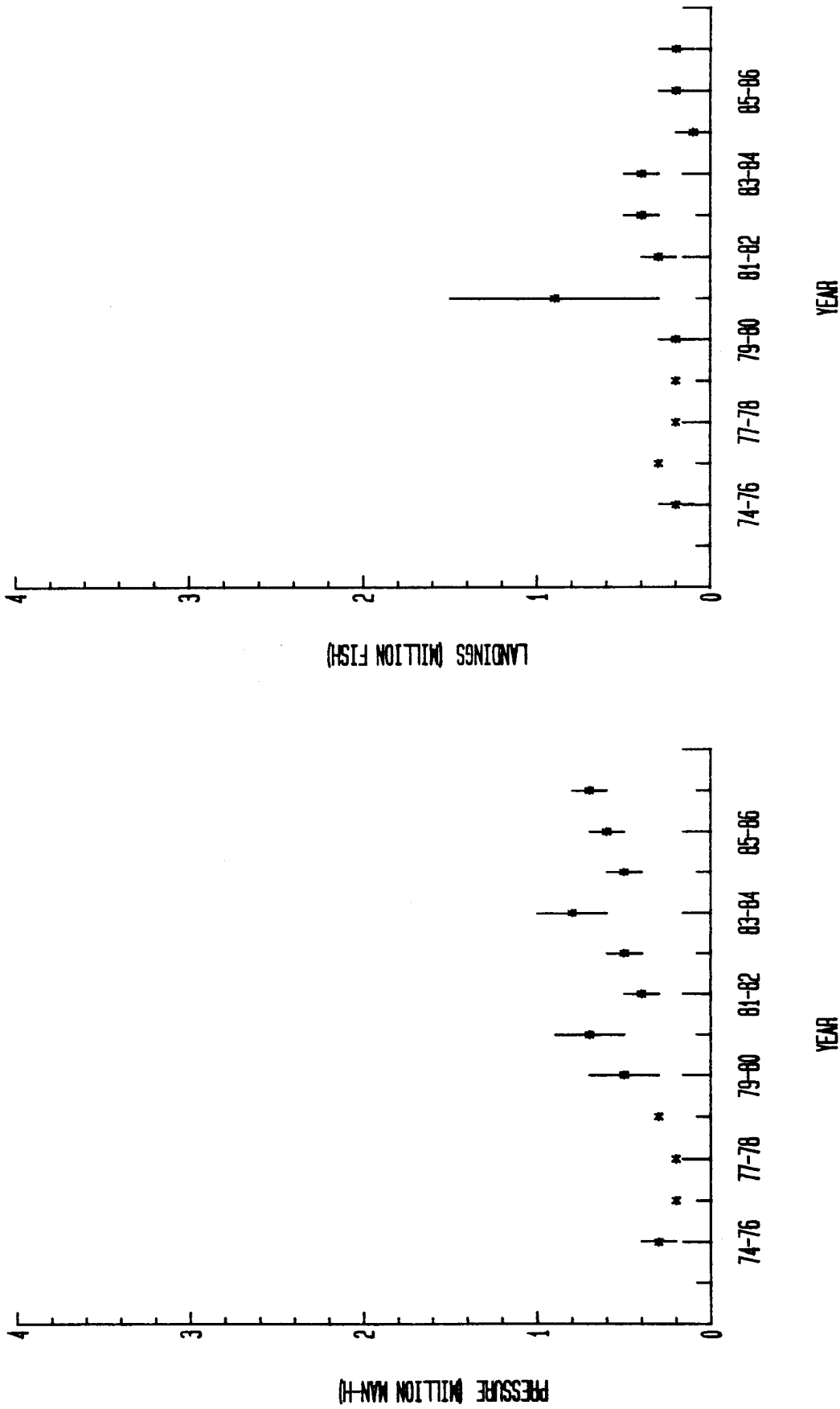


Figure 9. Annual bay and pass private-boat fishing pressure (+ 1 SE) and landings (+ 1 SE) for the Corpus Christi Bay system, May 1974-May 1987.

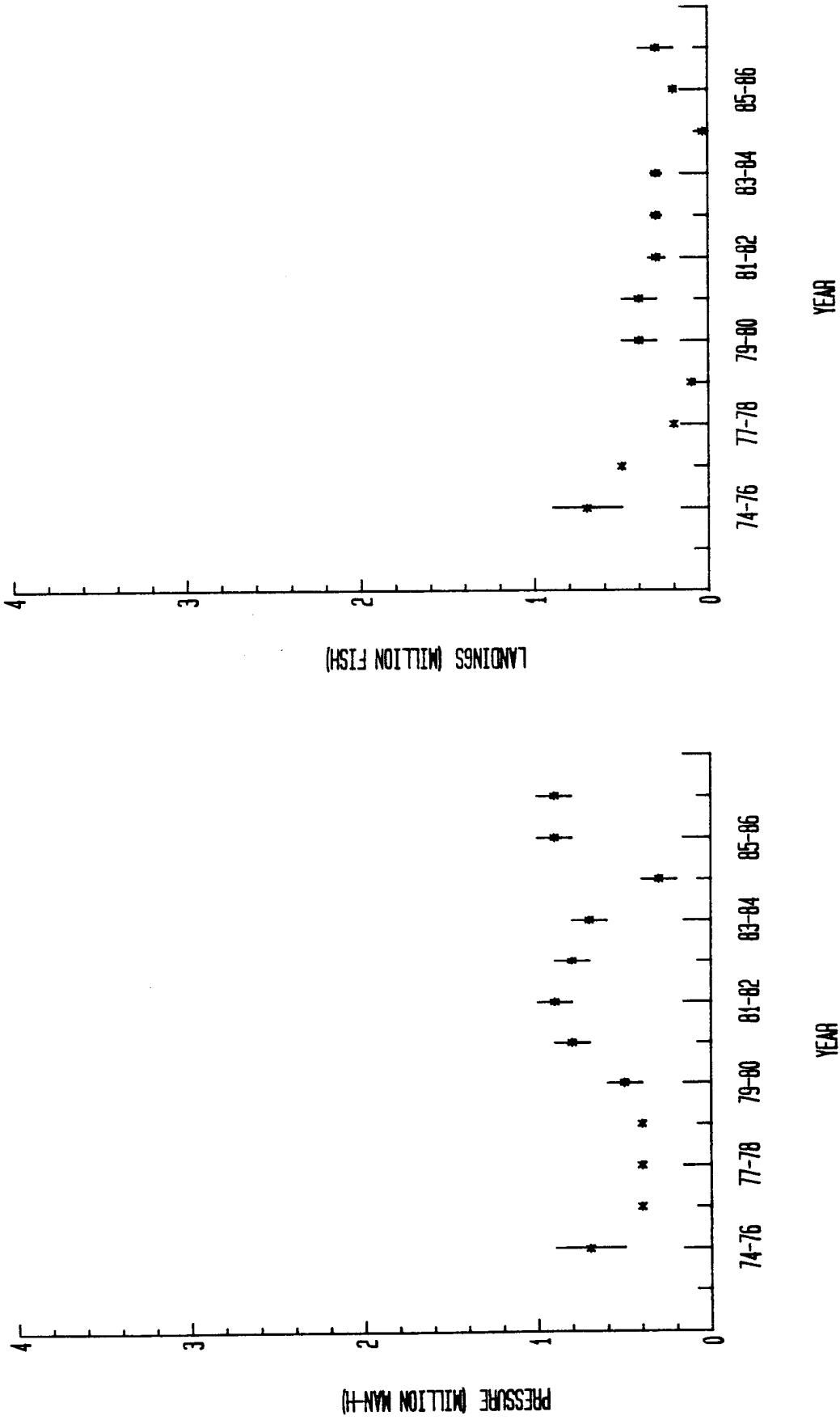


Figure 10. Annual bay and pass private-boat fishing pressure (± 1 SE) and landings (± 1 SE) for the upper Laguna Madre system, May 1974-May 1987.

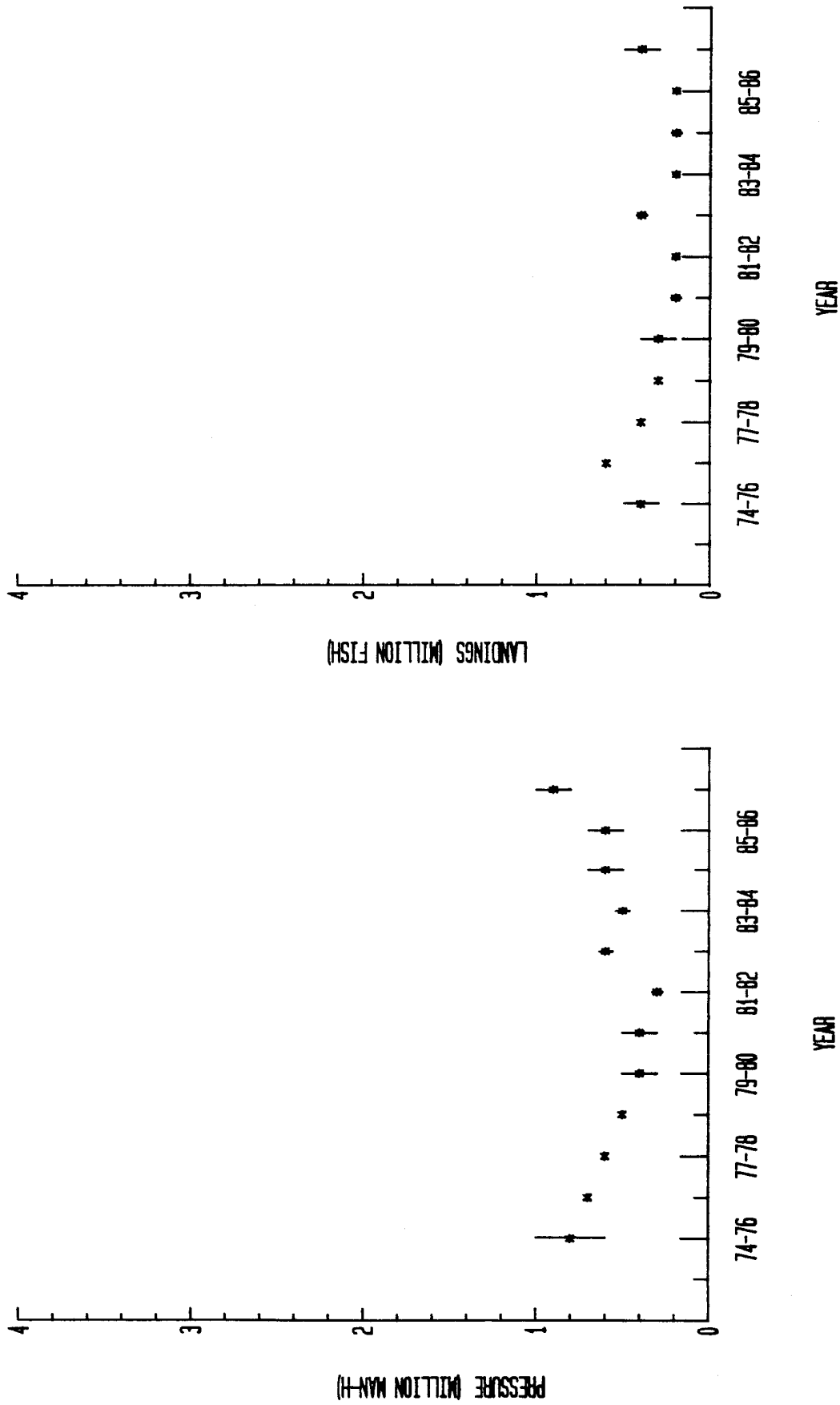


Figure 11. Annual bay and pass private-boat fishing pressure (+ 1 SE) and landings (\pm 1 SE) for the lower Laguna Madre system, May 1974-May 1987.

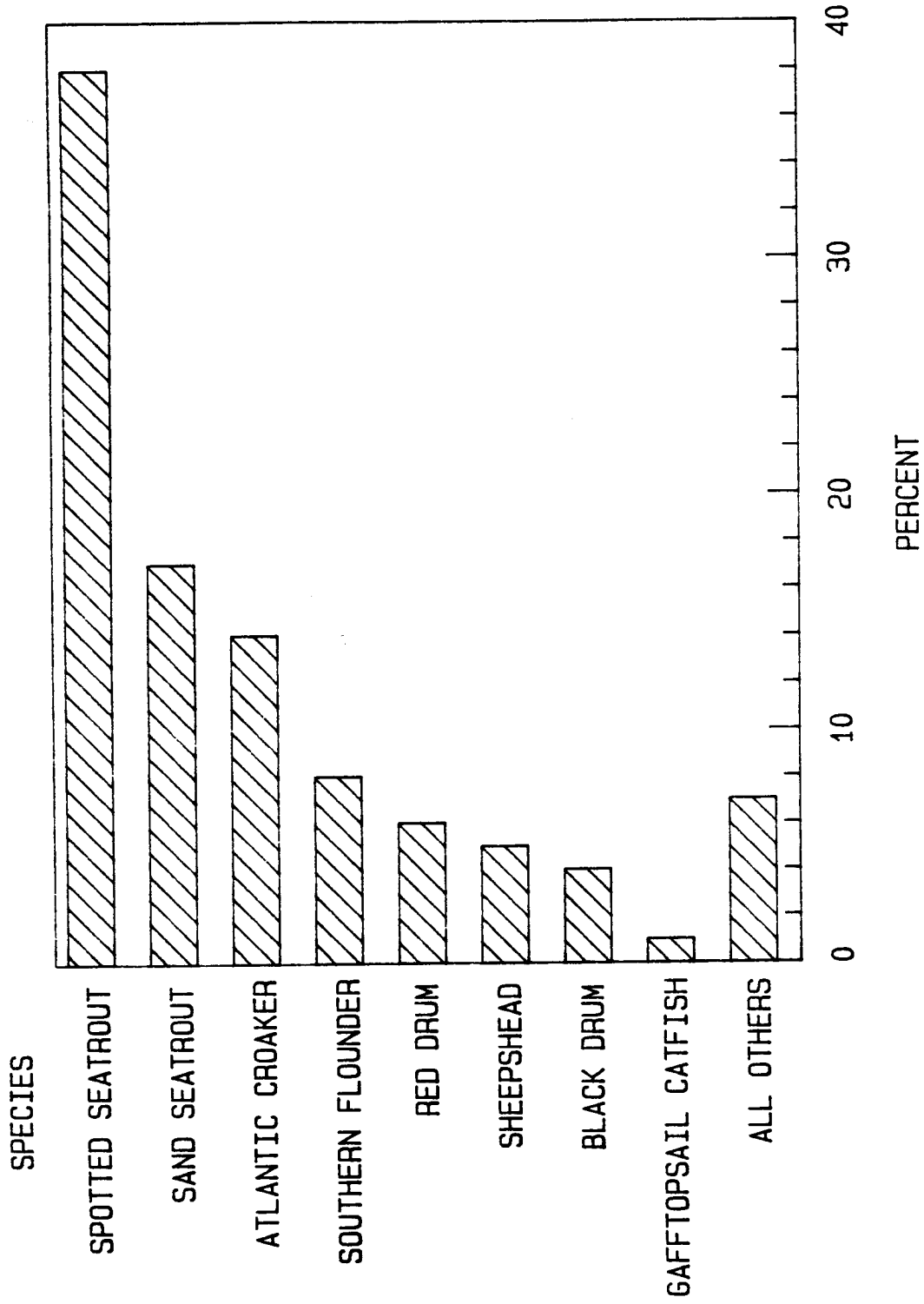


Figure 12. Species composition (%) of coastwide annual bay and pass private-boat finfish landings, May 1979-May 1987 (8-year mean).

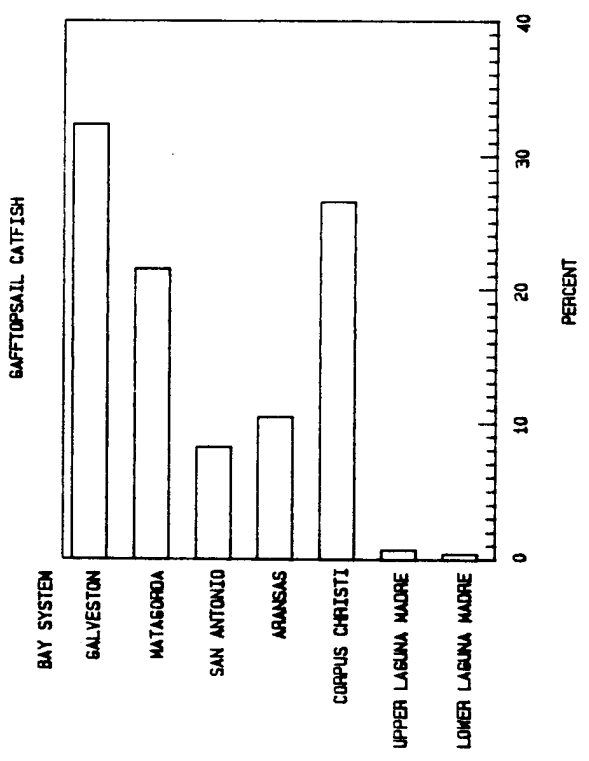
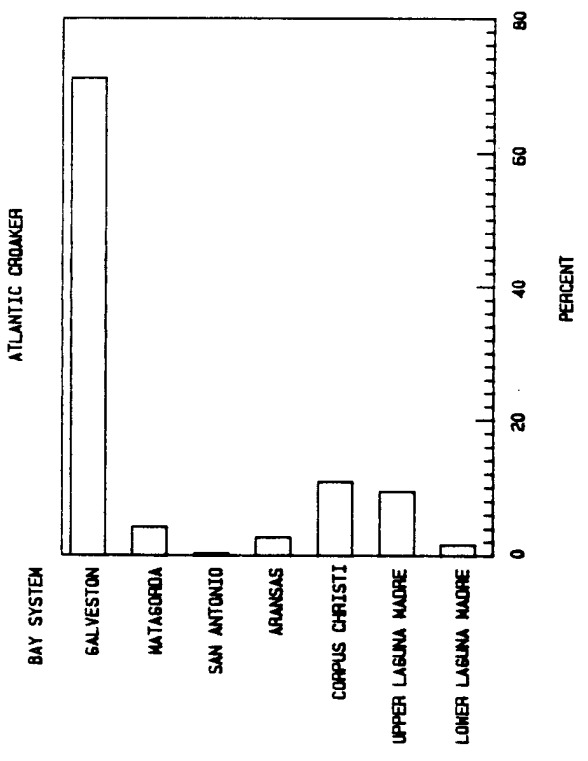
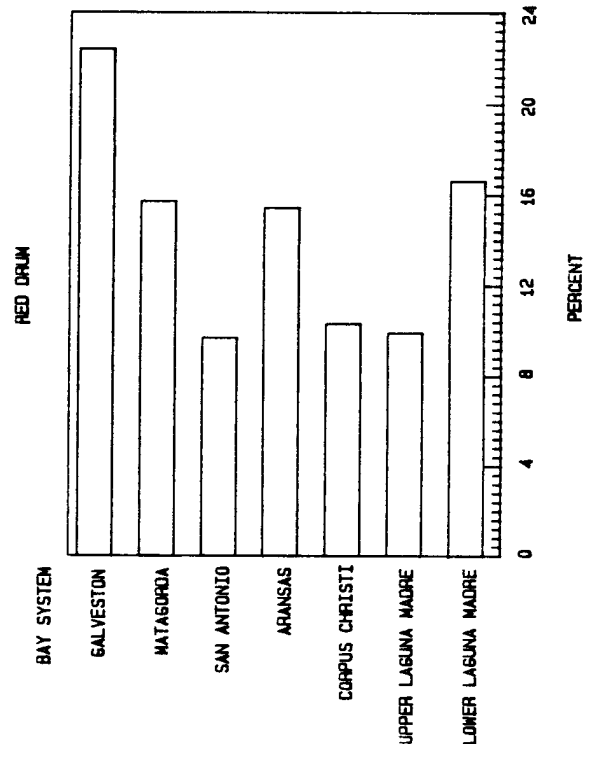
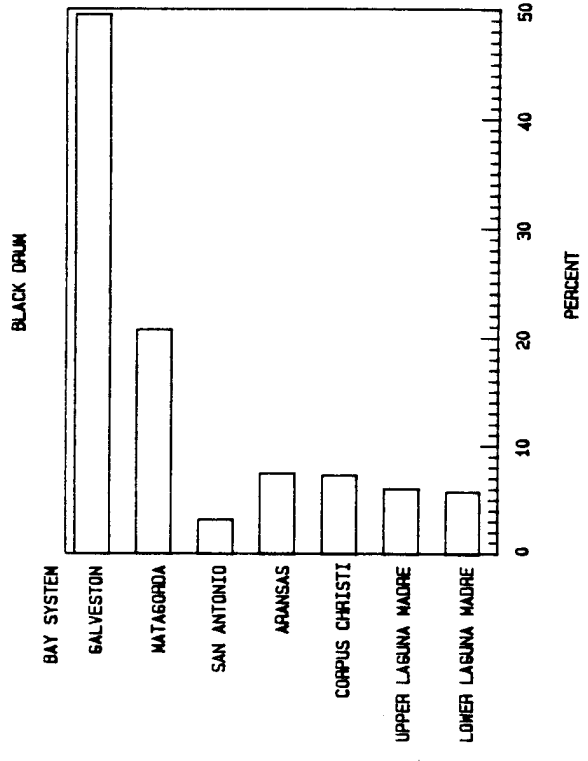


Figure 13. Distribution (%) of annual landings of selected finfish caught by bay and pass private-boat fishermen among bay systems, May 1979-May 1987 (8-year mean).

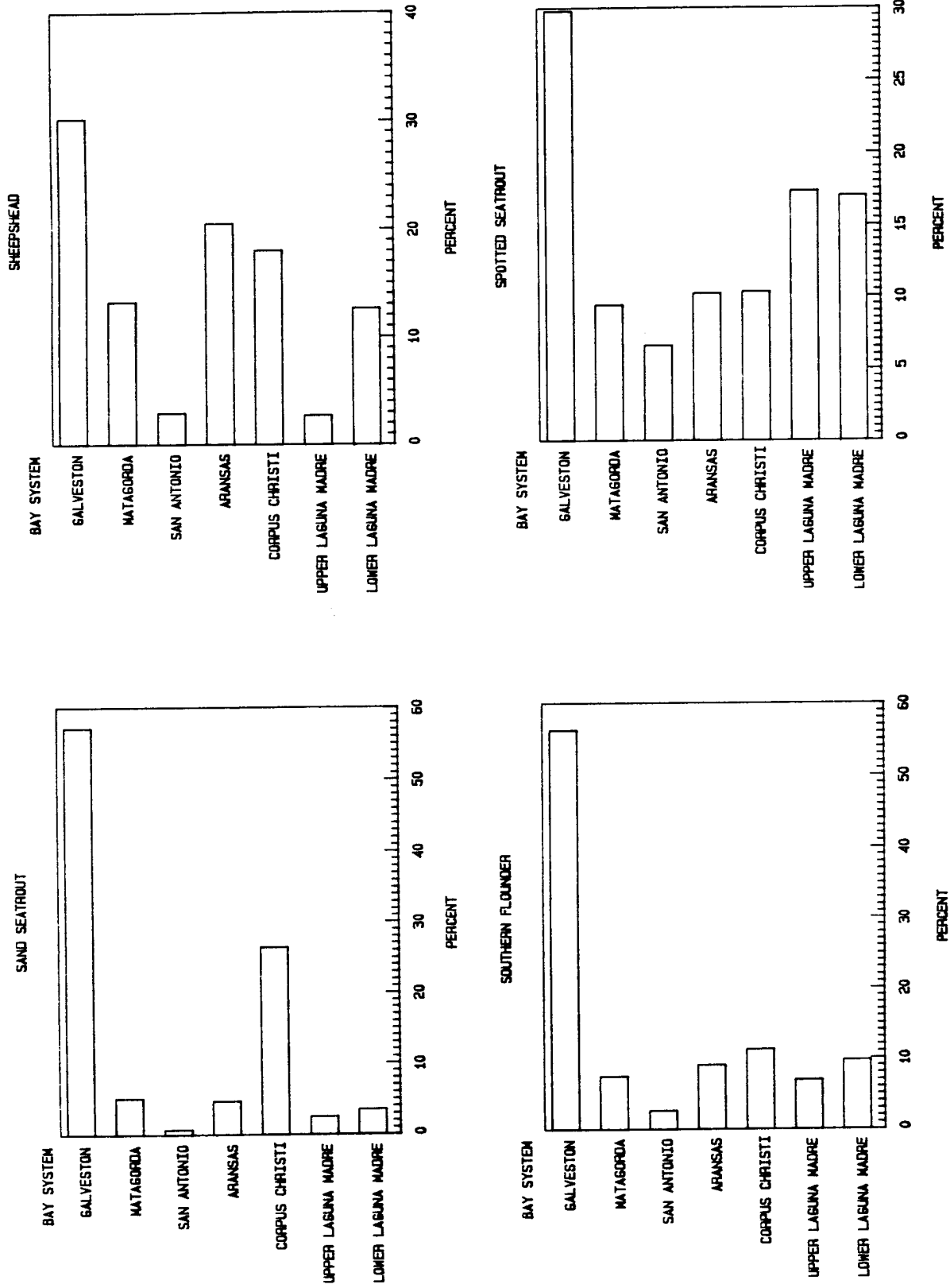


Figure 14. Distribution (%) of annual landings of selected finfish caught by bay and pass private-boat fishermen among bay systems, May 1979-May 1987 (8-year mean).

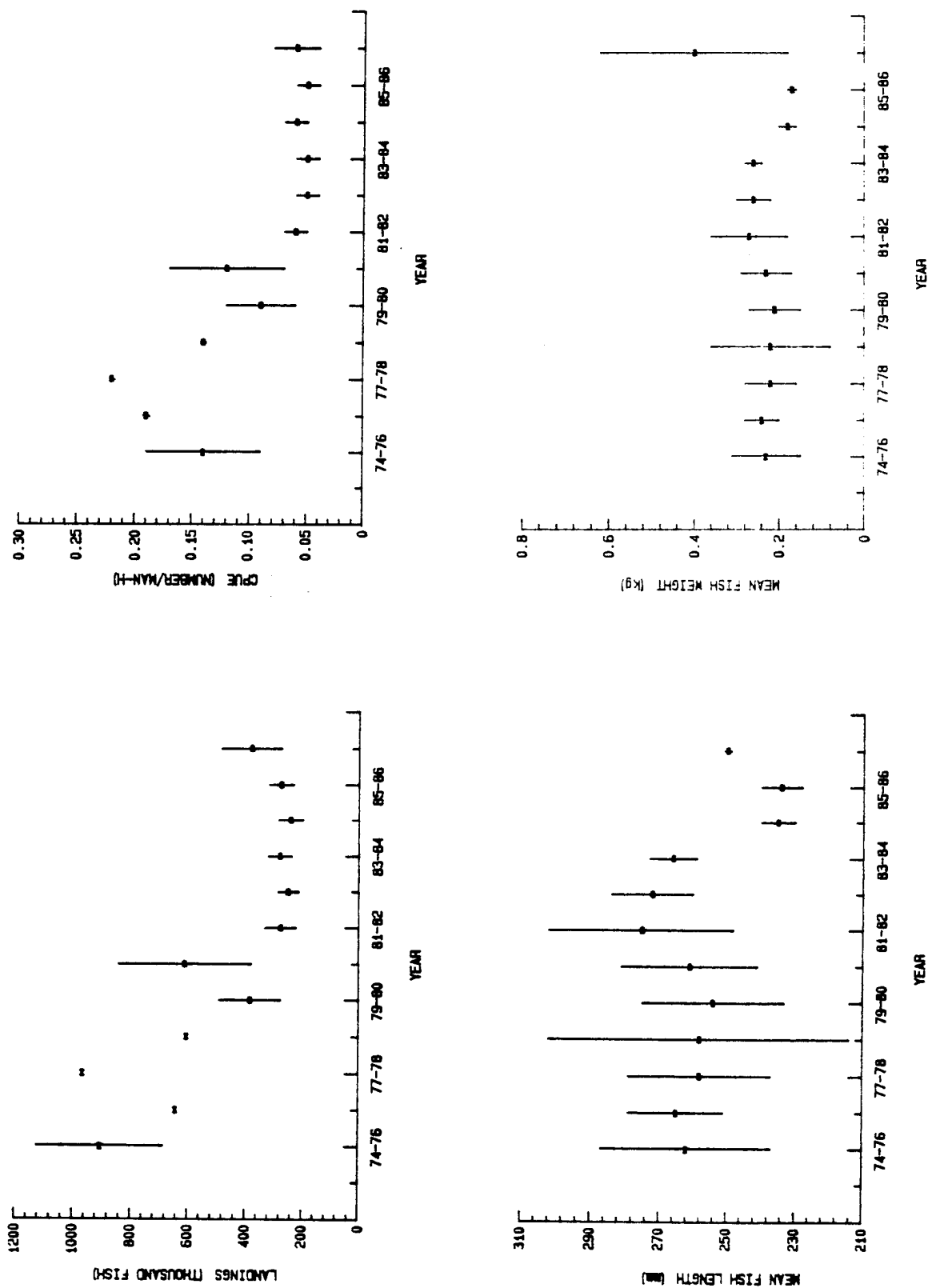


Figure 15. Coastwide annual statistics for Atlantic croaker landed from bays and passes by private-boat fishermen, May 1974-May 1987.

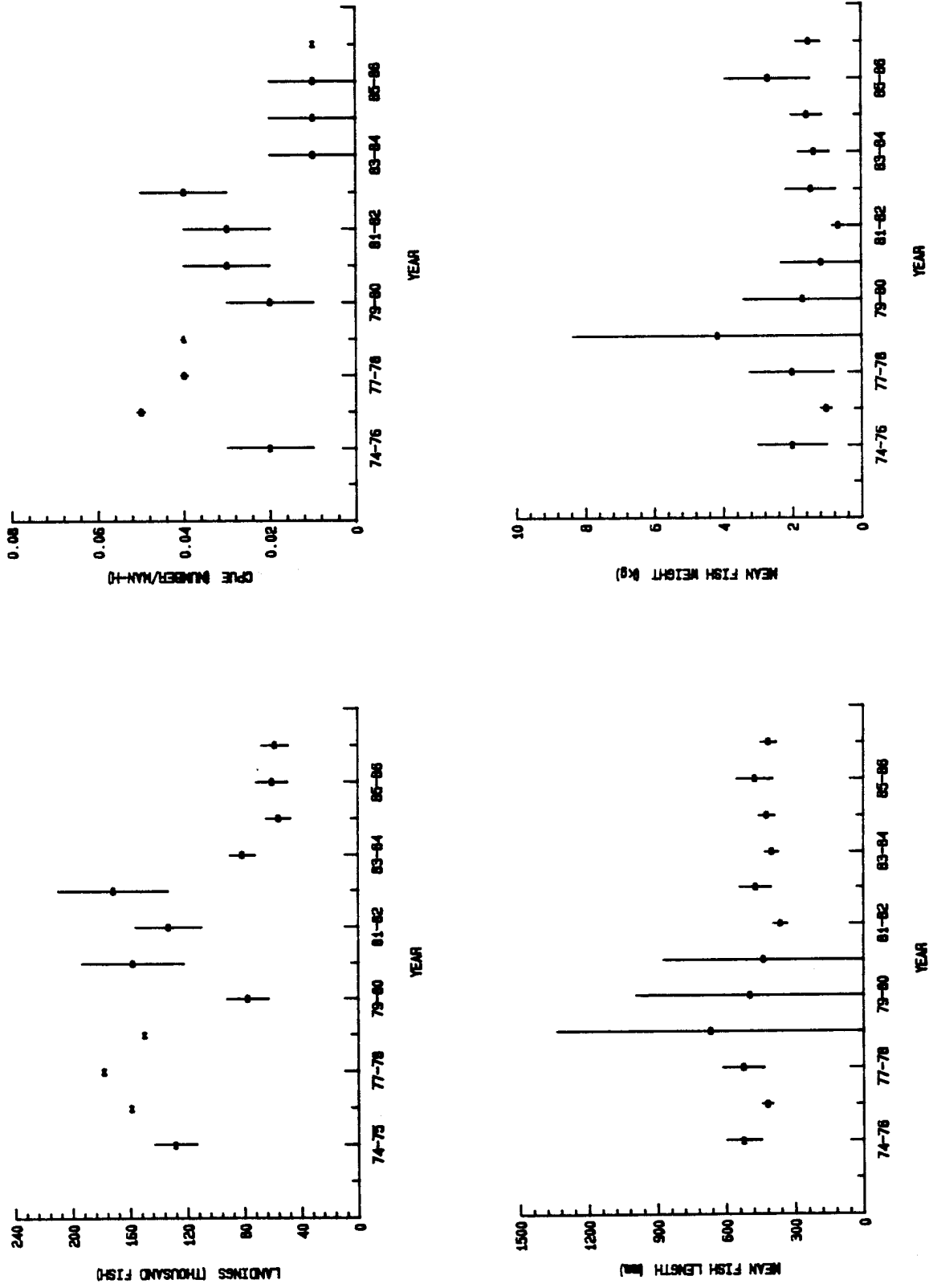


Figure 16. Coastwide annual statistics for black drum landed from bays and passes by private-boat fishermen, May 1974-May 1987.

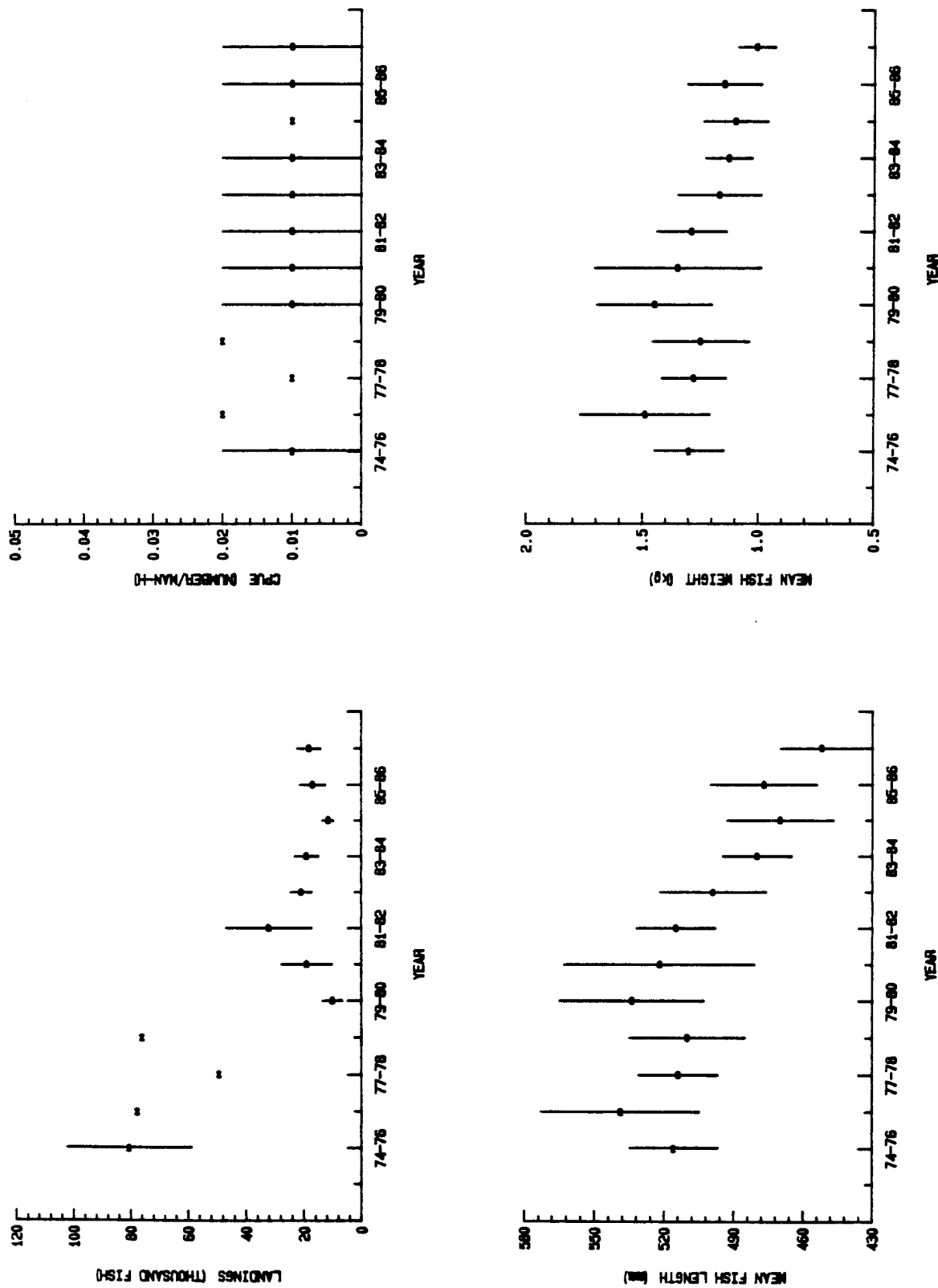


Figure 17. Coastwide annual statistics for gafftopsail catfish landed from bays and passes by private-boat fishermen, May 1974-May 1987.

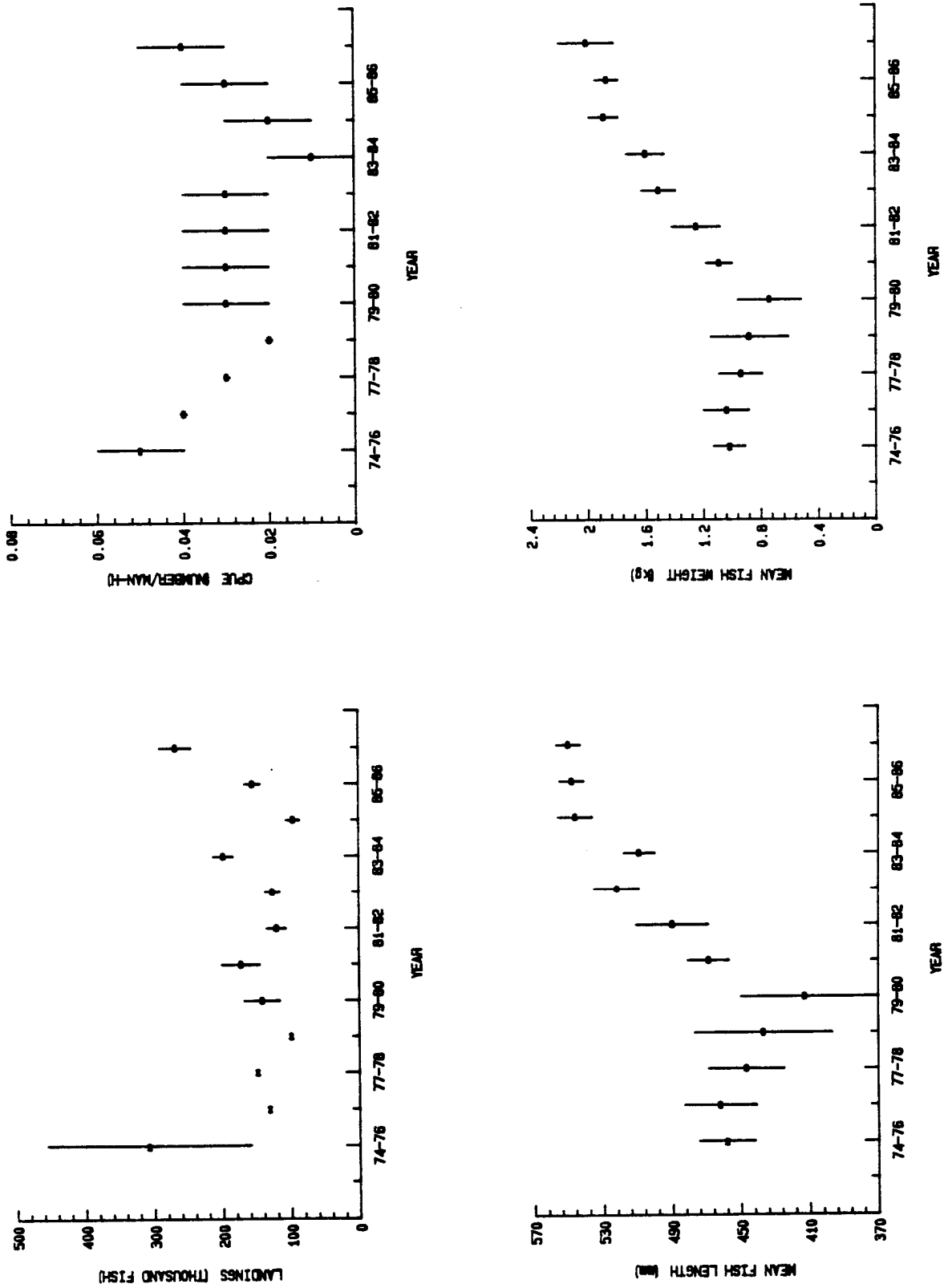


Figure 18. Coastwide annual statistics for red drum landed from bays and passes by private-boat fishermen, May 1974-May 1987.

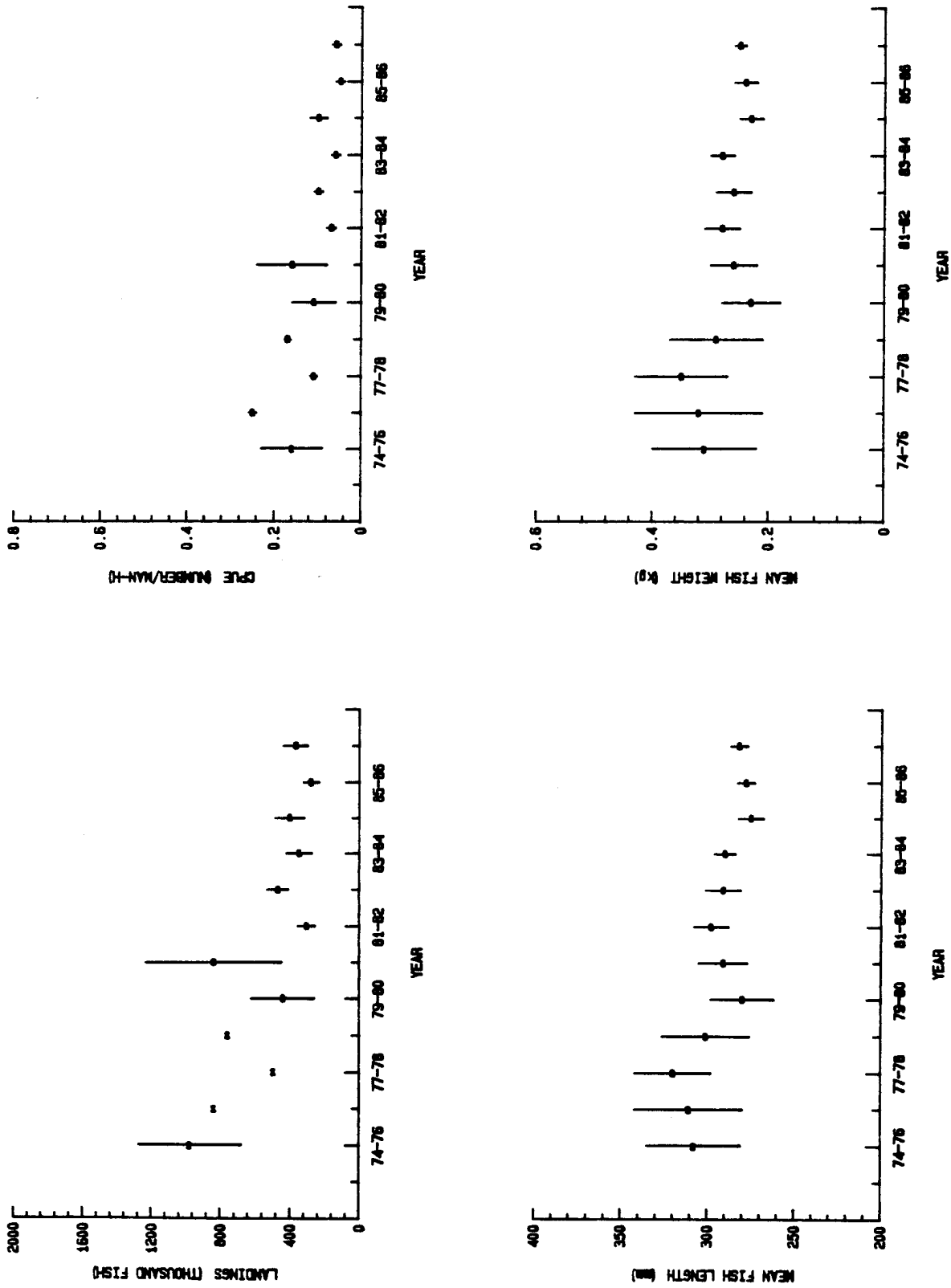


Figure 19. Coastwide annual statistics for sand seatrout landed from bays and passes by private-boat fishermen, May 1974-May 1987.

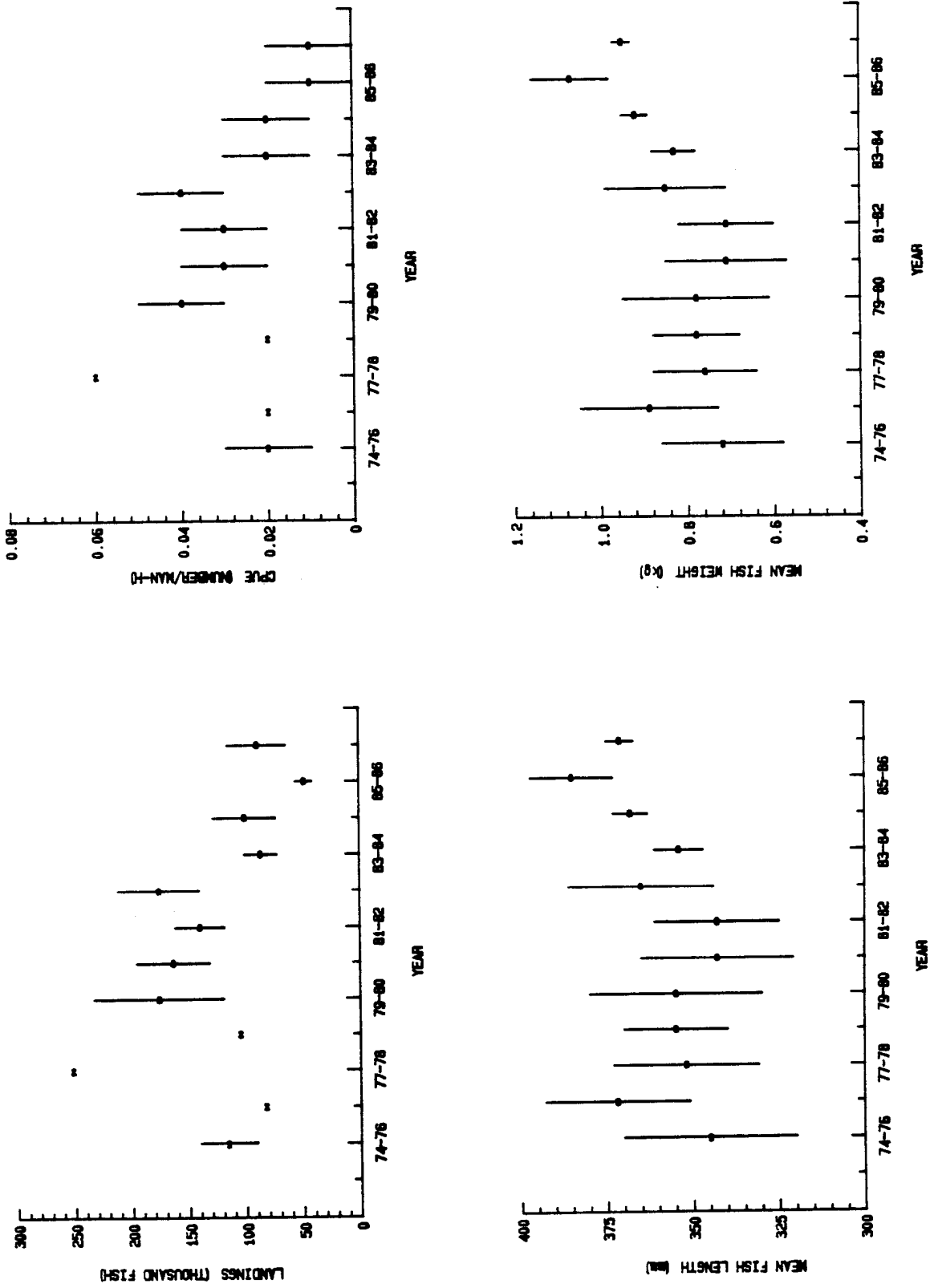


Figure 20. Coastwide annual statistics for sheephead landed from bays and passes by private-boat fishermen, May 1974-May 1987.

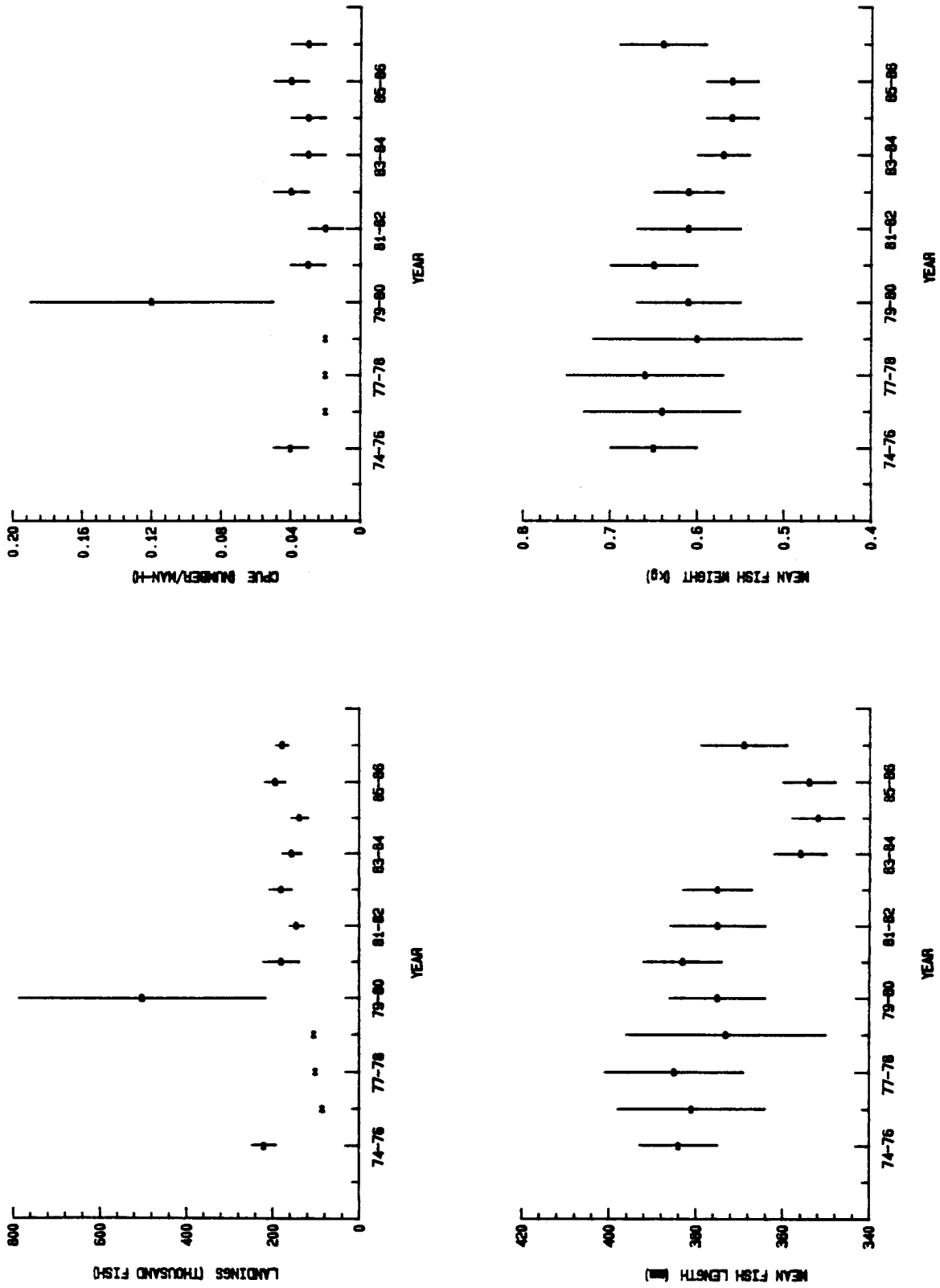


Figure 21. Coastwide annual statistics for southern flounder landed from bays and passes by private-boat fishermen, May 1974-May 1987.

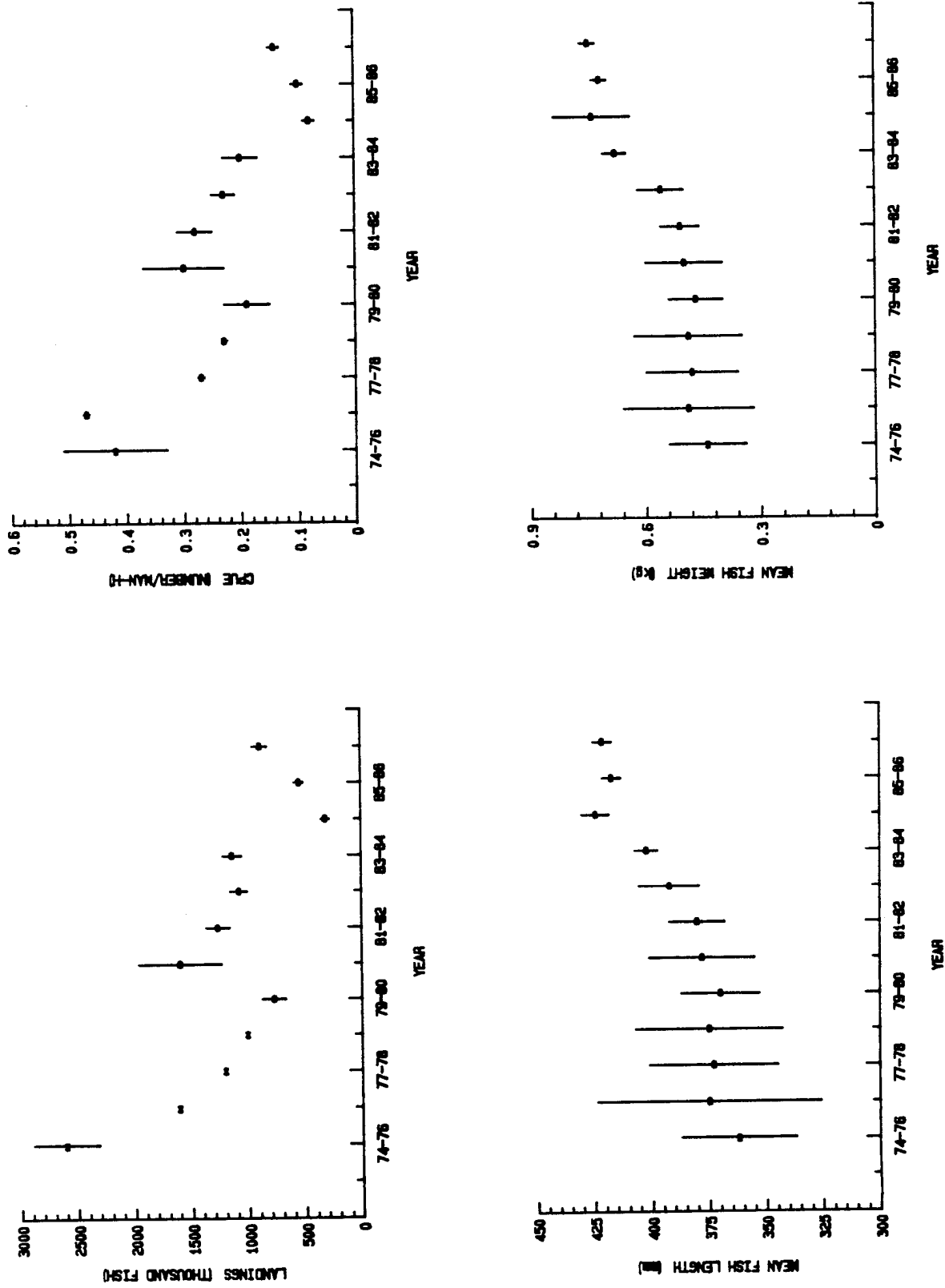


Figure 22. Coastwide annual statistics for spotted seatrout landed from bays and passes by private-boat fishermen, May 1974-May 1987.

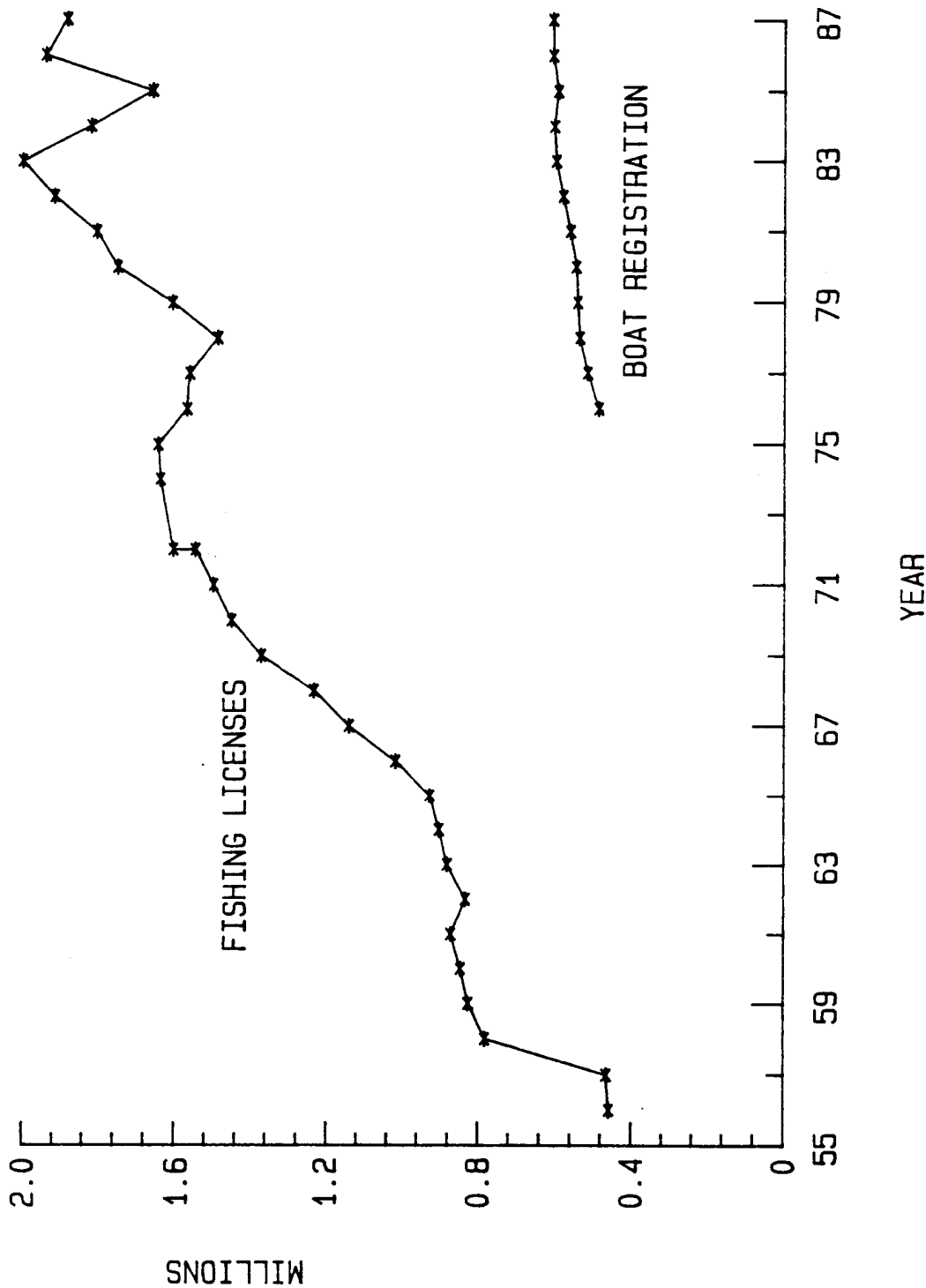


Figure 23. Number of recreational fishing licenses (1955-1987) and boat registrations (1975-1987) sold in Texas by fiscal year (1 Sep-31 Aug).

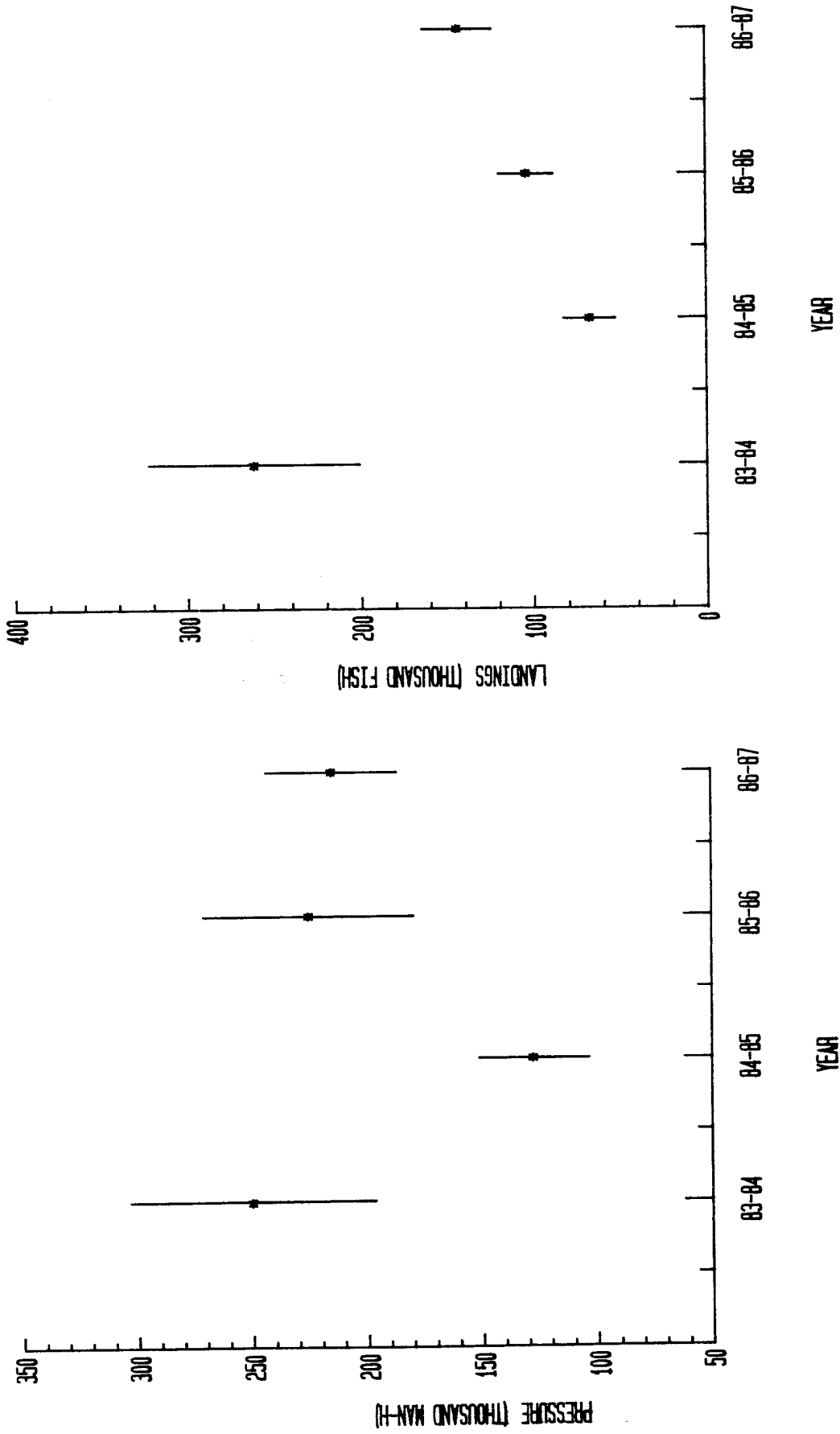
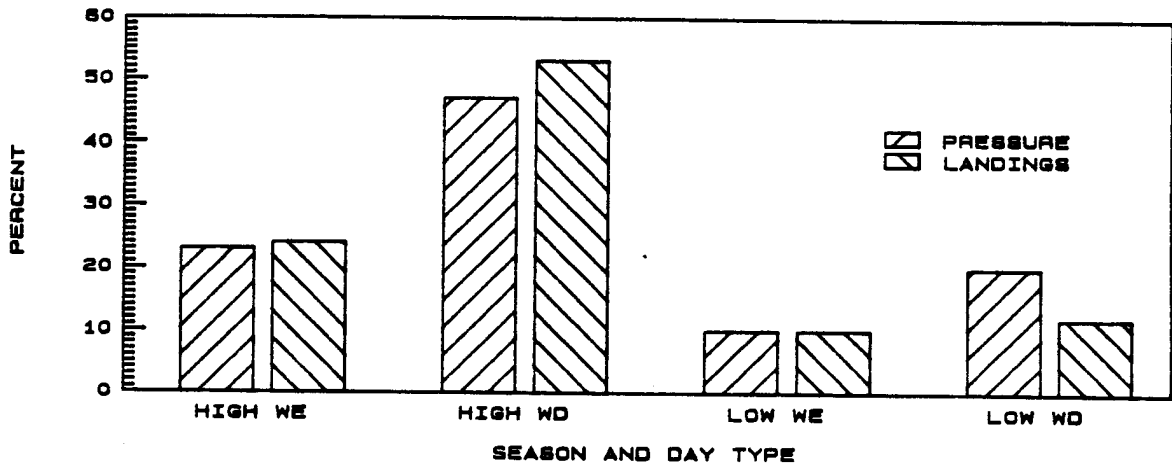
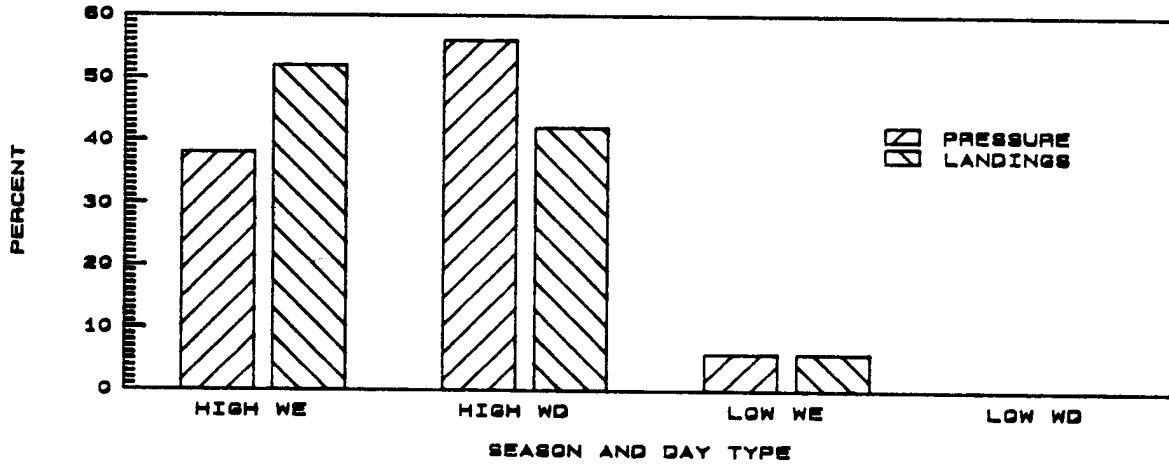


Figure 24. Coastwide annual party-boat fishing pressure (\pm 1 SE) and landings (\pm 1 SE) in Texas bays and passes, May 1983-May 1987.

BAYS AND PASSES



TEXAS TERRITORIAL SEA



EXCLUSIVE ECONOMIC ZONE

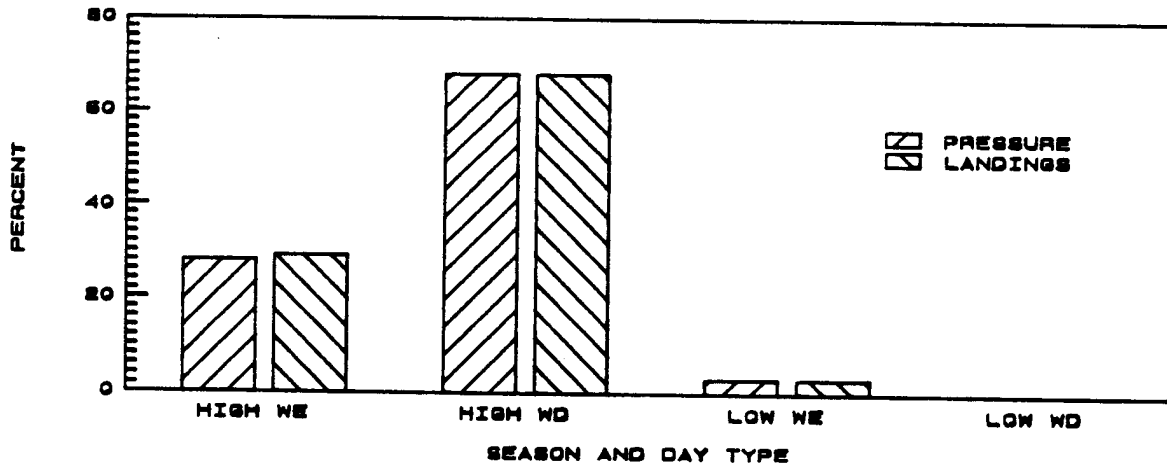


Figure 25. Percent distribution of annual coastwide bay and pass, Texas Territorial Sea, and Exclusive Economic Zone party-boat pressure and landings by season and day type, May 1983-May 1987 (4-year mean). WE=weekends, WD=weekdays.

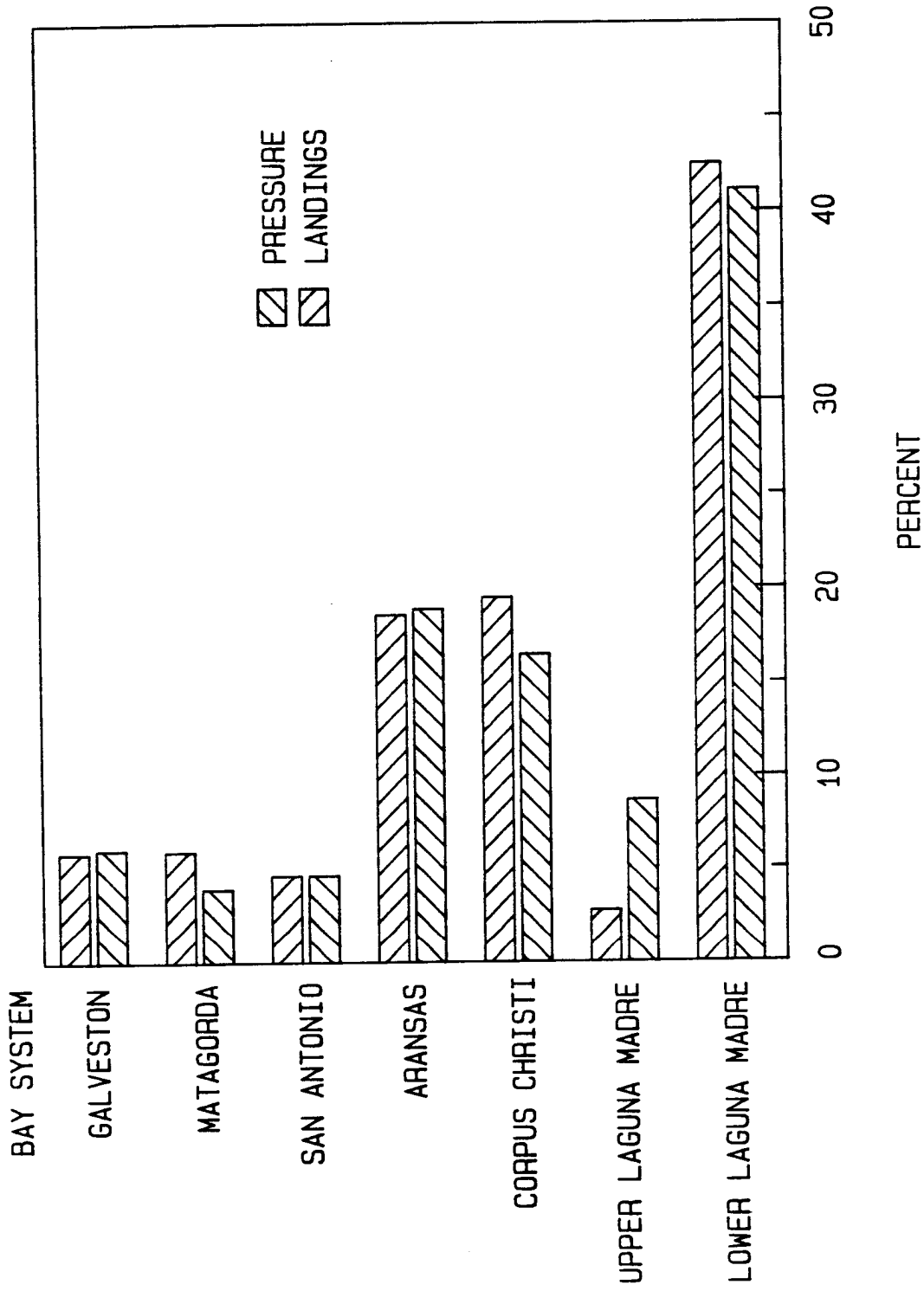


Figure 26. Percent distribution of annual bay and pass party-boat fishing pressure and landings among bay systems, May 1983-May 1987 (4-year mean).

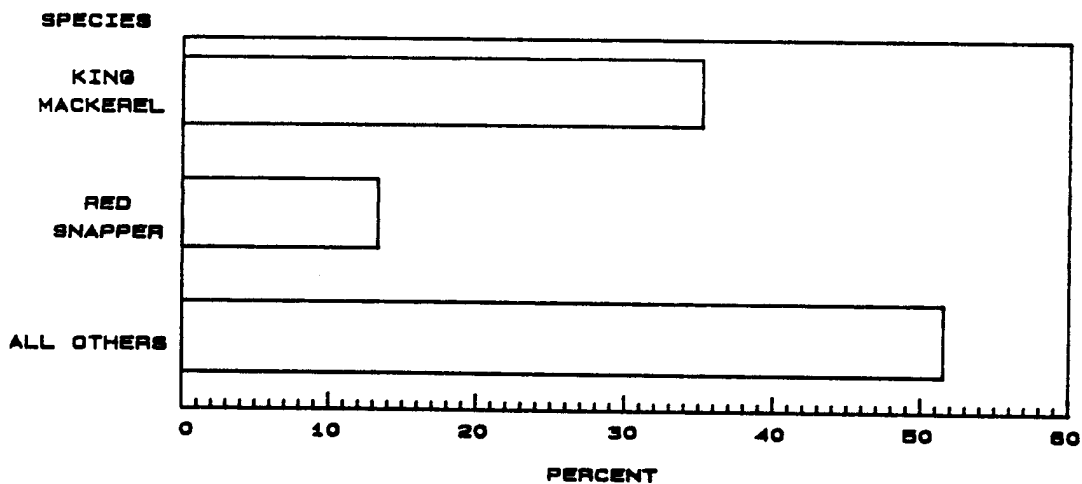
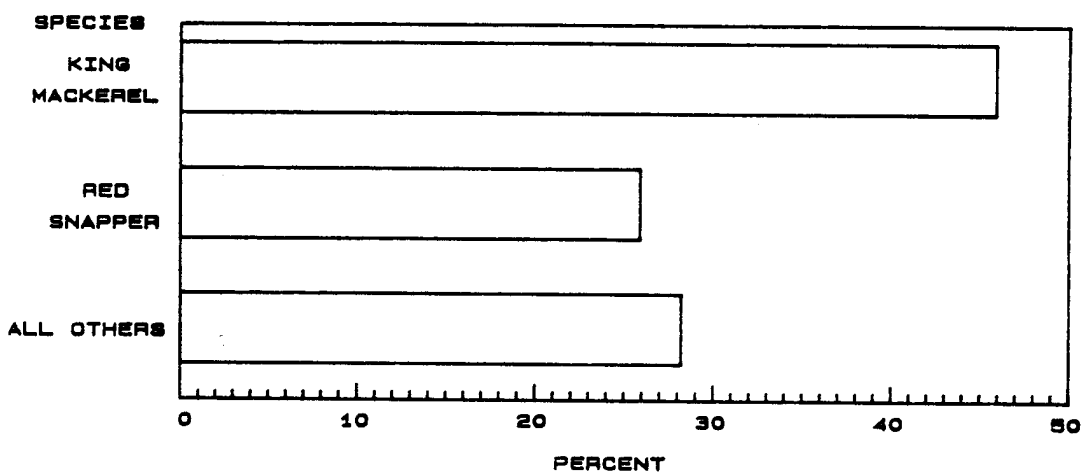
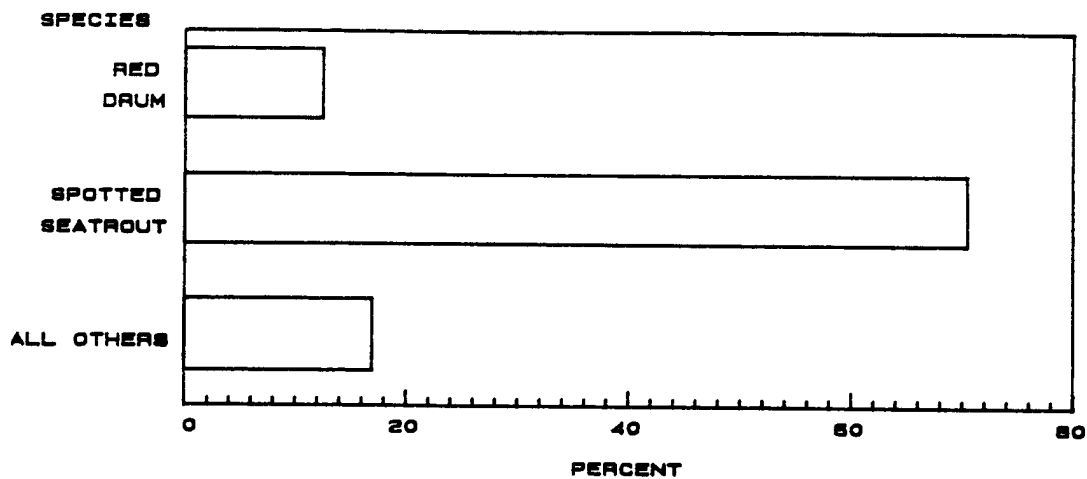


Figure 27. Species composition (%) of coastwide annual party-boat finfish landings in bays and passes (top), Texas Territorial Sea (middle), and Exclusive Economic Zone (bottom), May 1983-May 1987 (4-year mean).

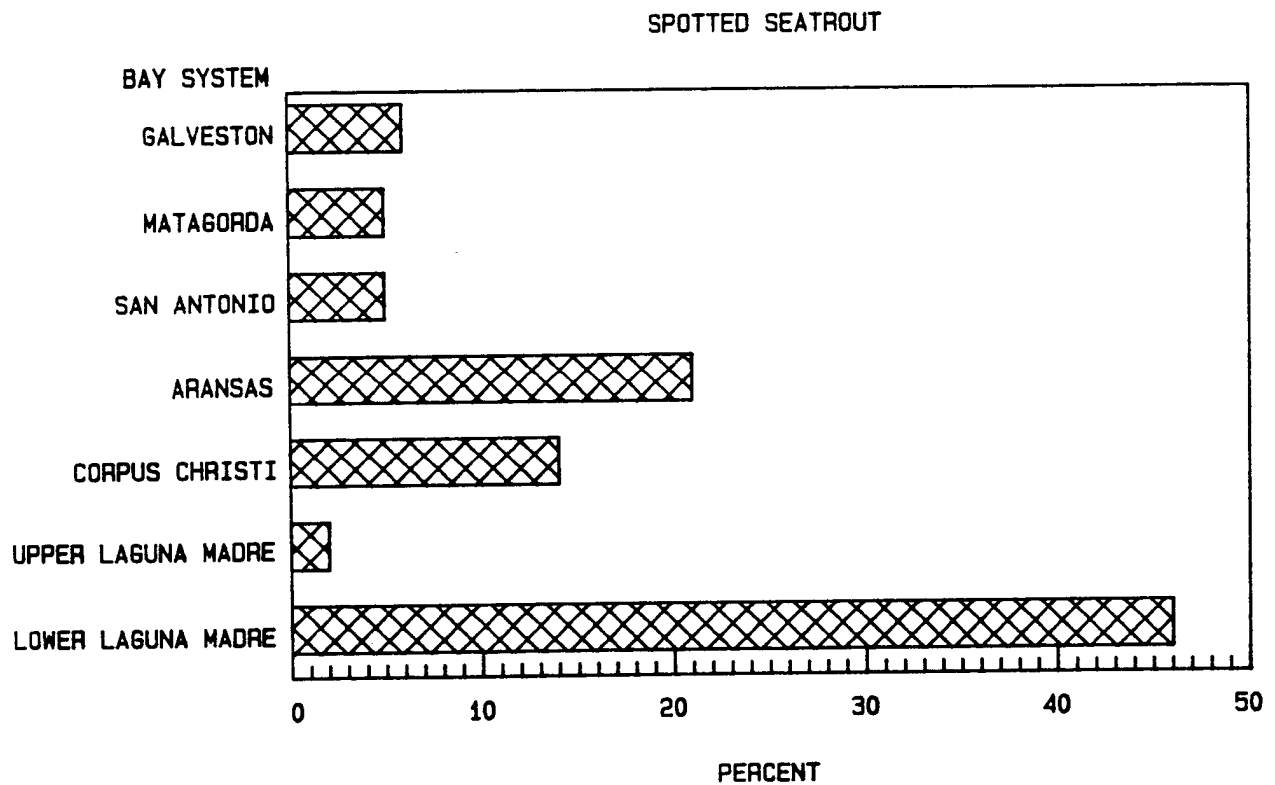
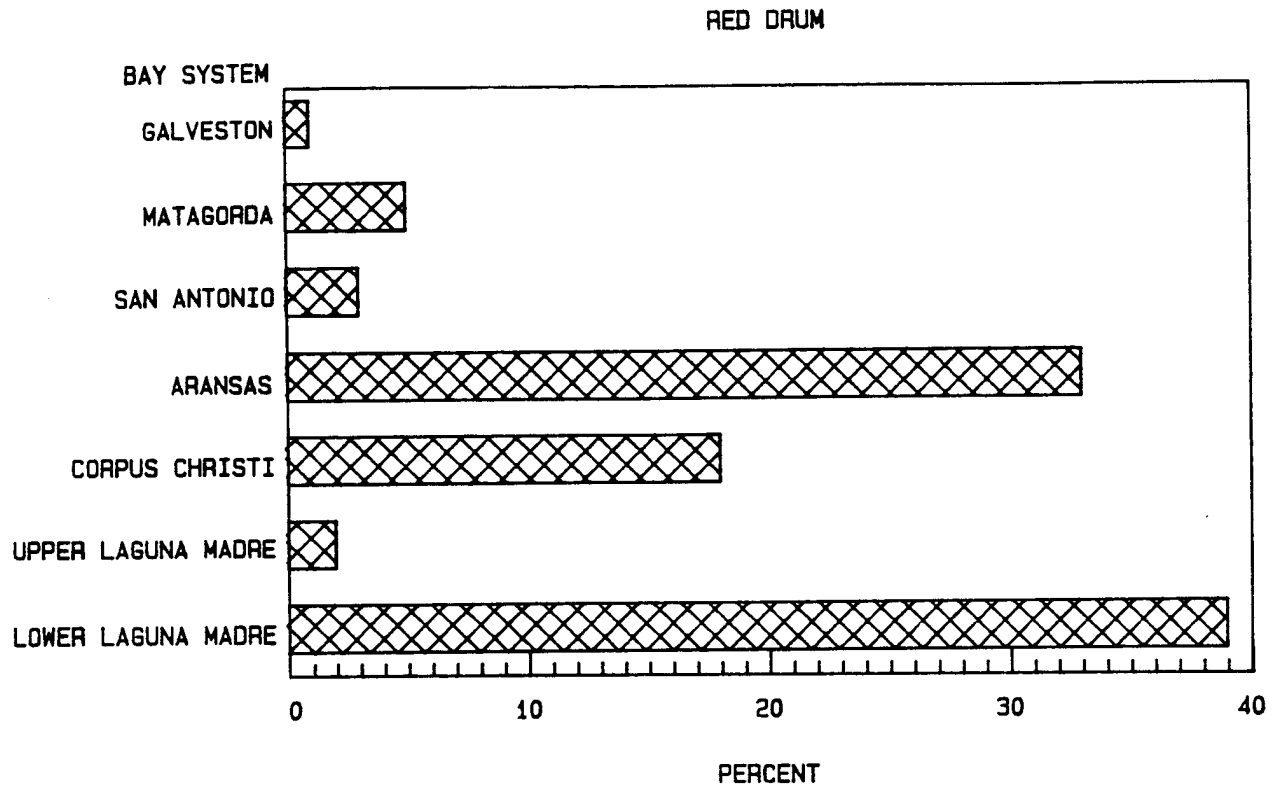


Figure 28. Distribution (%) of annual landings of red drum and spotted seatrout caught by party-boat fishermen among bay systems, May 1983-May 1987.

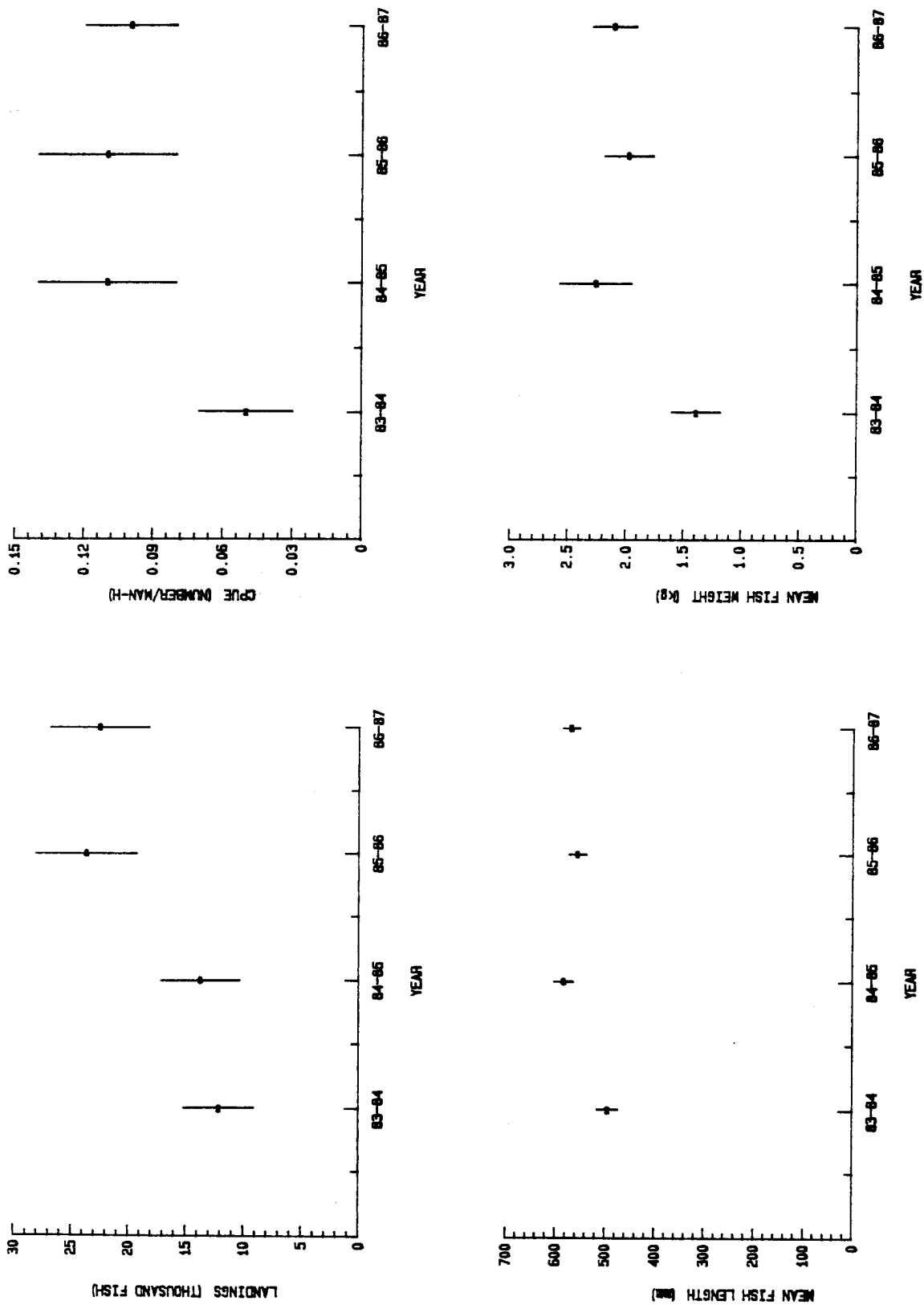


Figure 29. Coastwide annual statistics for red drum landed from bays and passes by party-boat fishermen, May 1983-May 1987.

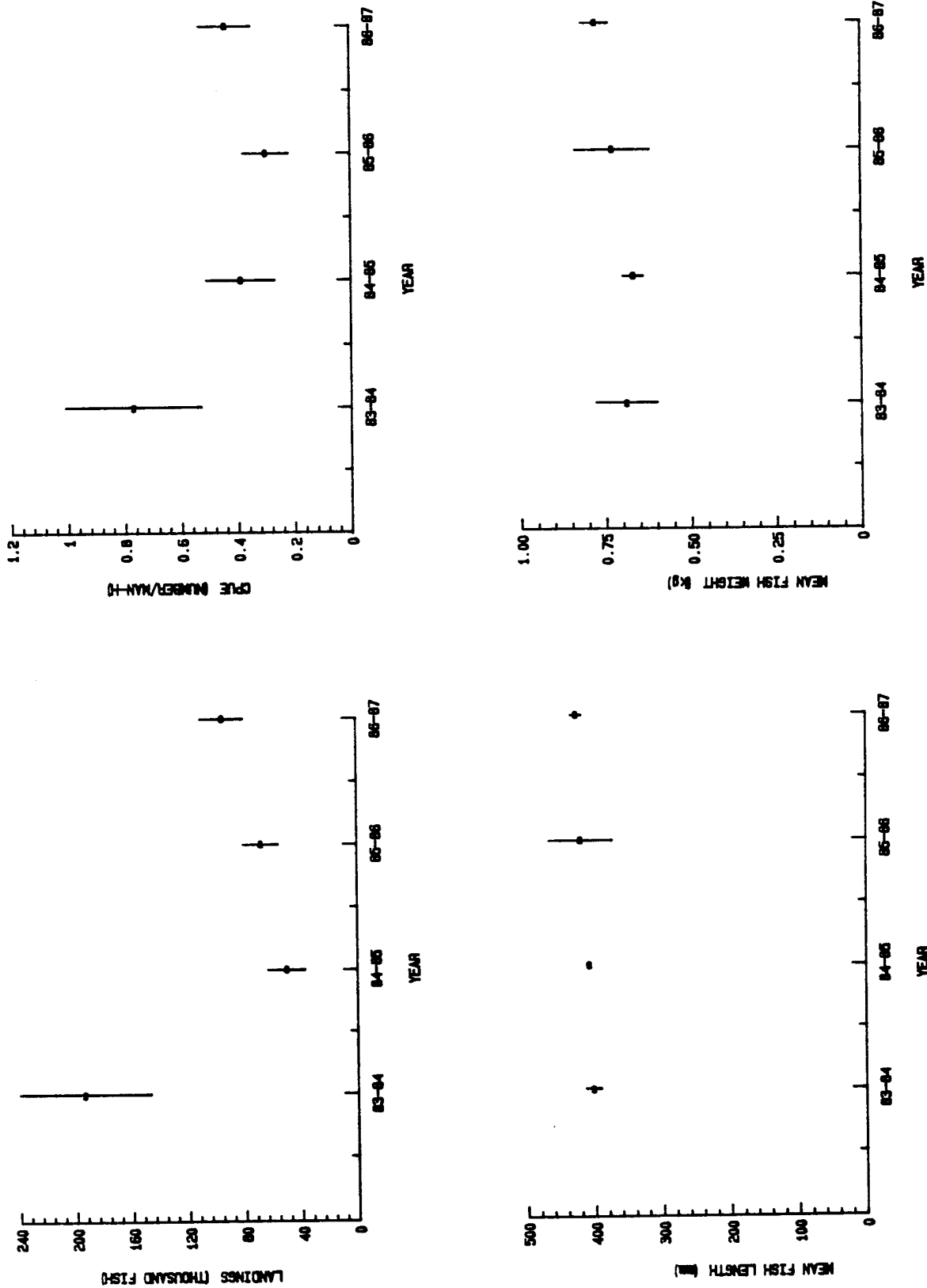


Figure 30. Coastwide annual statistics for spotted seatrout landed from bays and passes by party-boat fishermen, May 1983-May 1987.

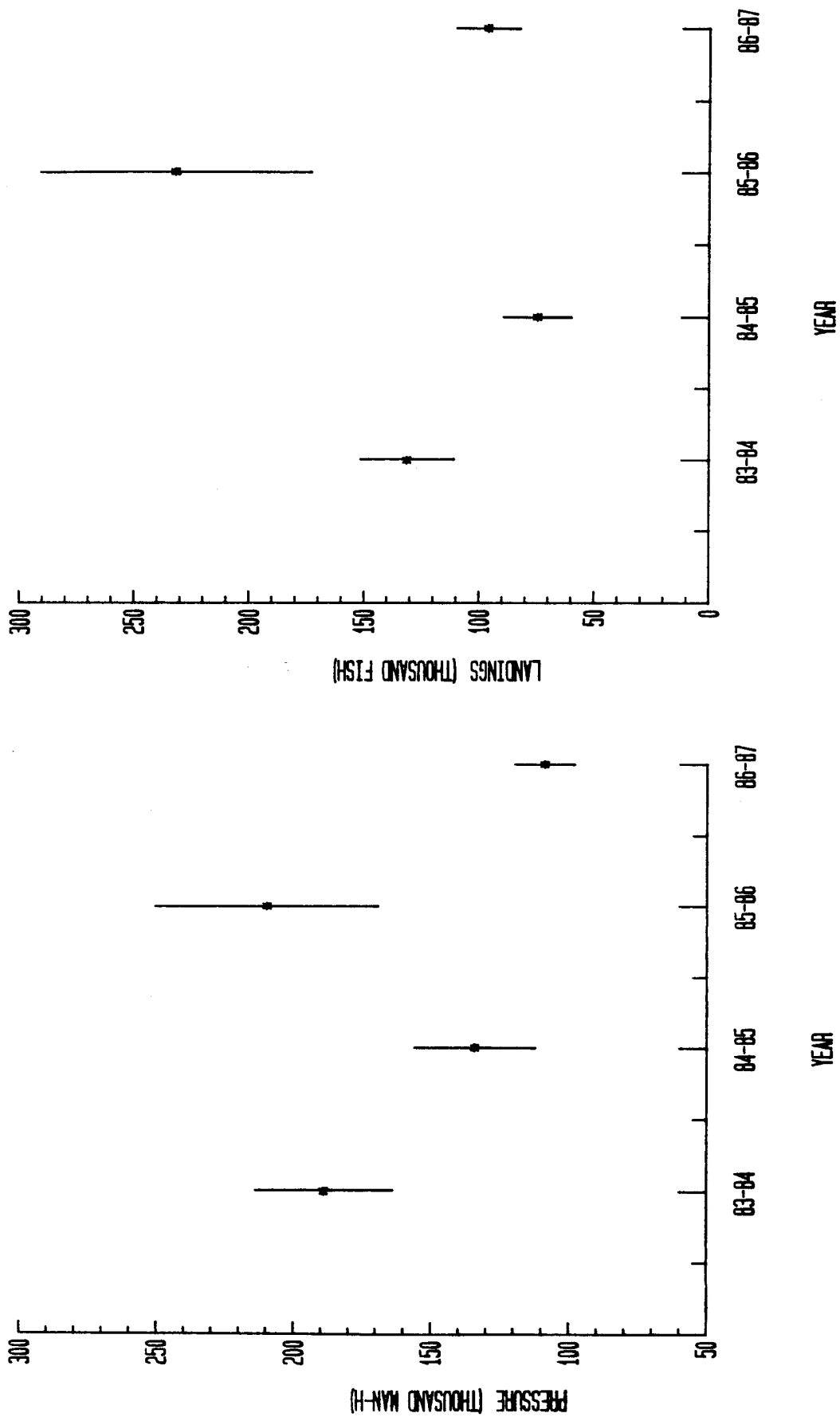


Figure 31. Coastwide annual headboat fishing pressure ($\bar{x} \pm 1$ SE) and landings ($\bar{x} \pm 1$ SE) in Texas bays and passes, May 1983-May 1987

BAYS AND PASSES

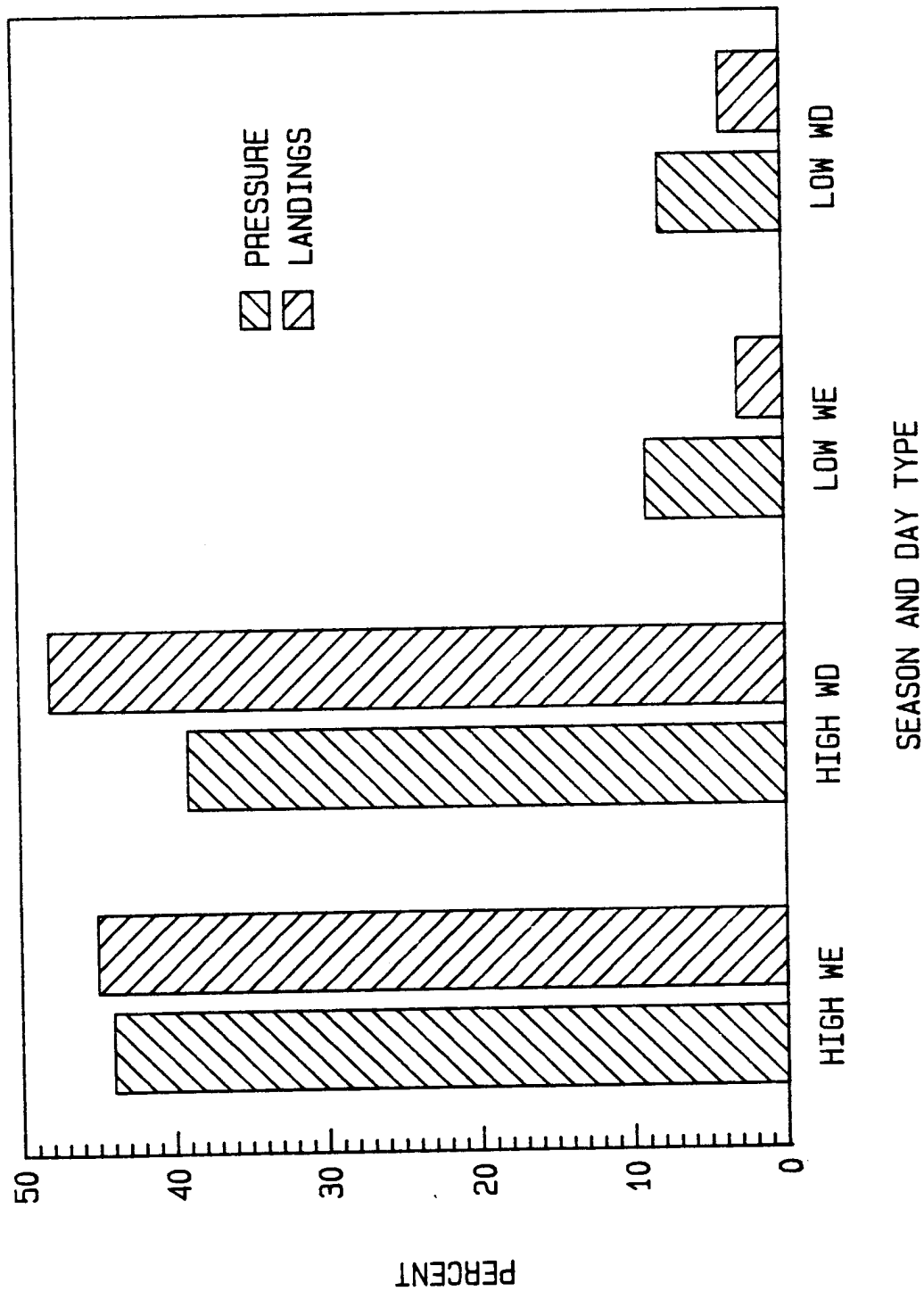


Figure 32. Percent distribution of annual bay and pass headboat pressure and landings by season and day type, May 1983-May 1987 (4-year mean). WE=weekends, WD=weekdays.

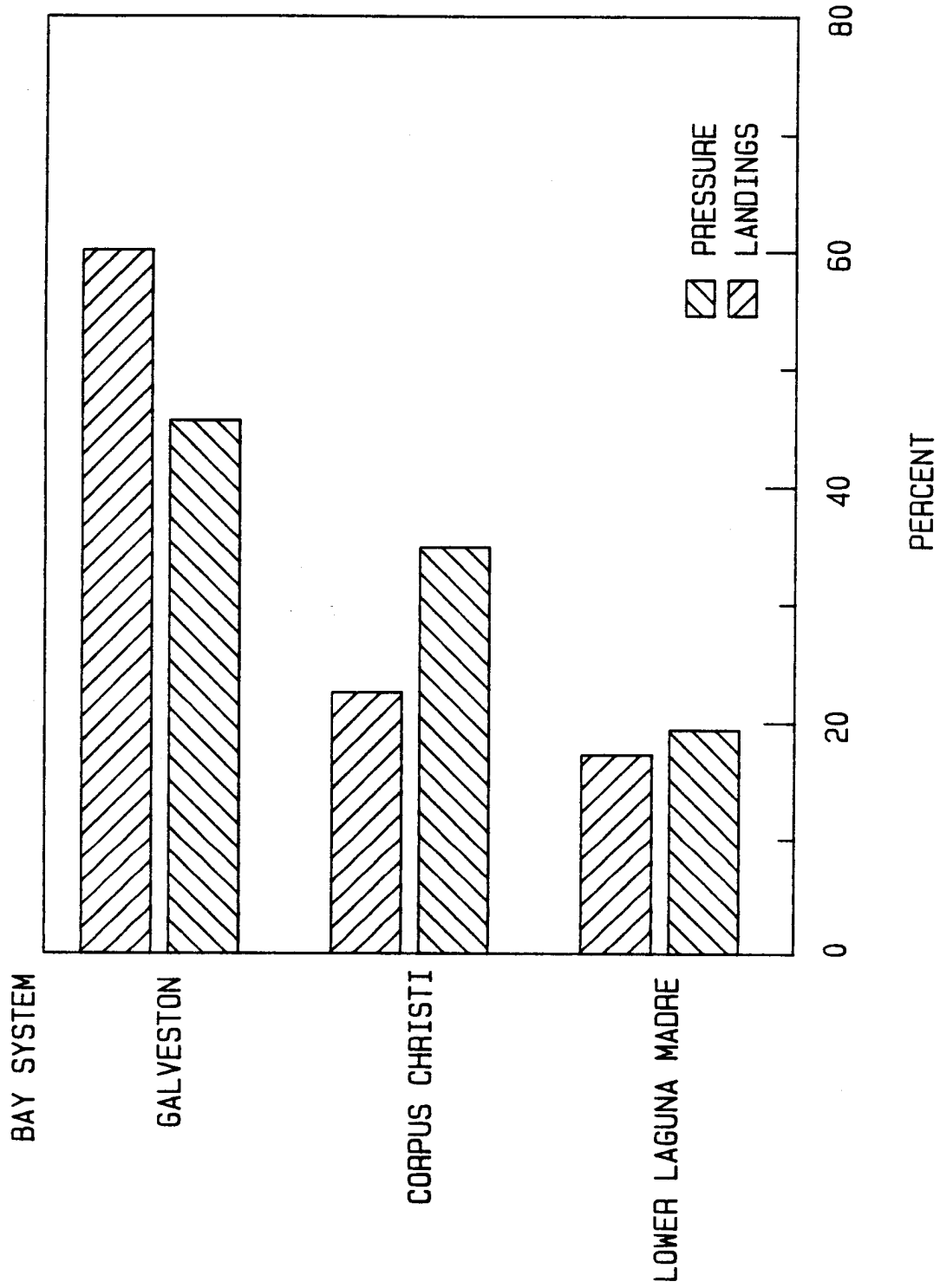


Figure 33. Percent distribution of annual bay and pass headboat fishing pressure and landings among bay systems, May 1983-May 1987 (4-year mean).

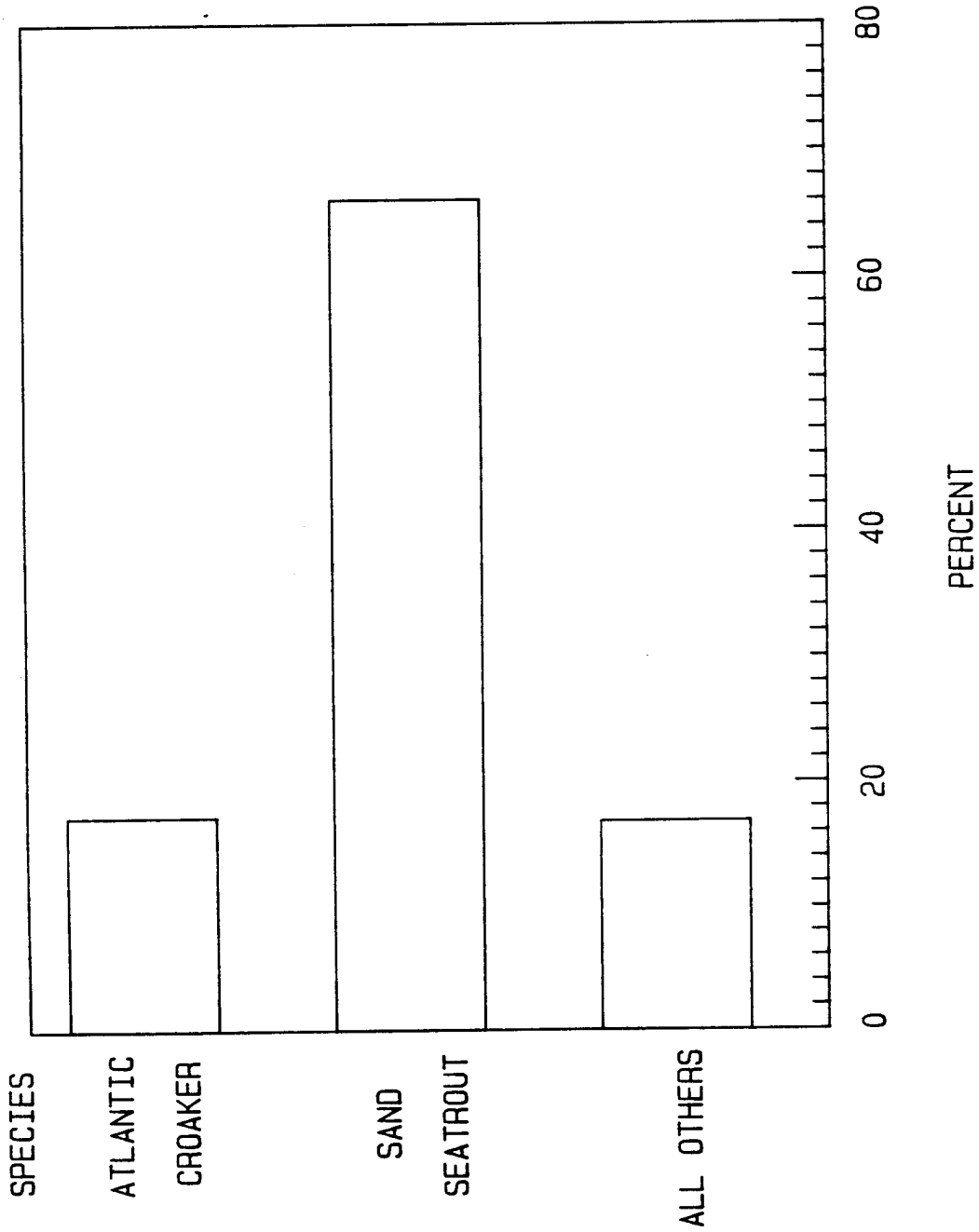


Figure 34. Species composition (%) of coastwide annual headboat finfish landings in bays and passes, May 1983-May 1987 (4-year mean).

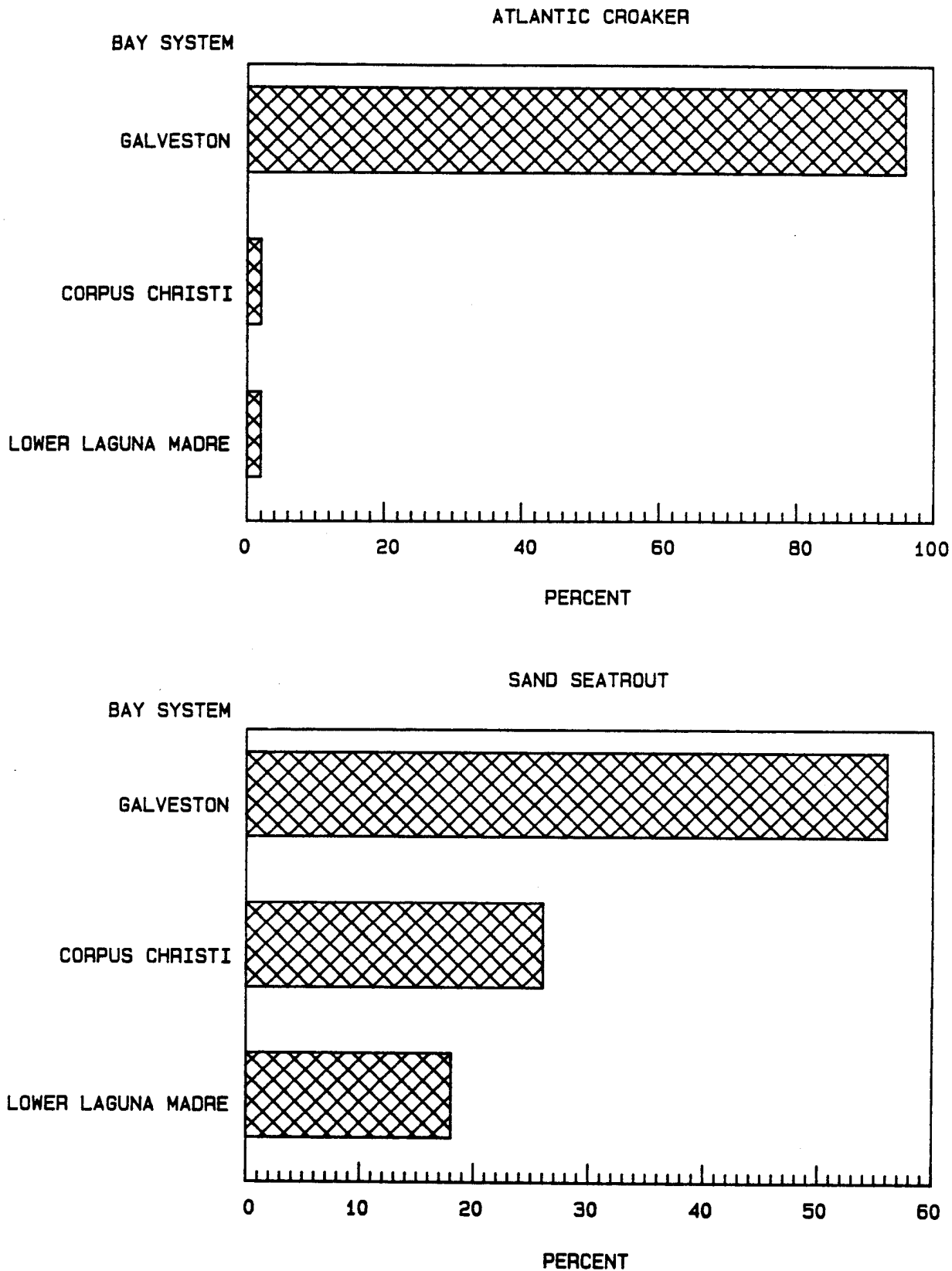


Figure 35. Distribution (%) of annual landings of Atlantic croaker and sand seatrout caught by headboat fishermen among bay systems, May 1983-May 1987.

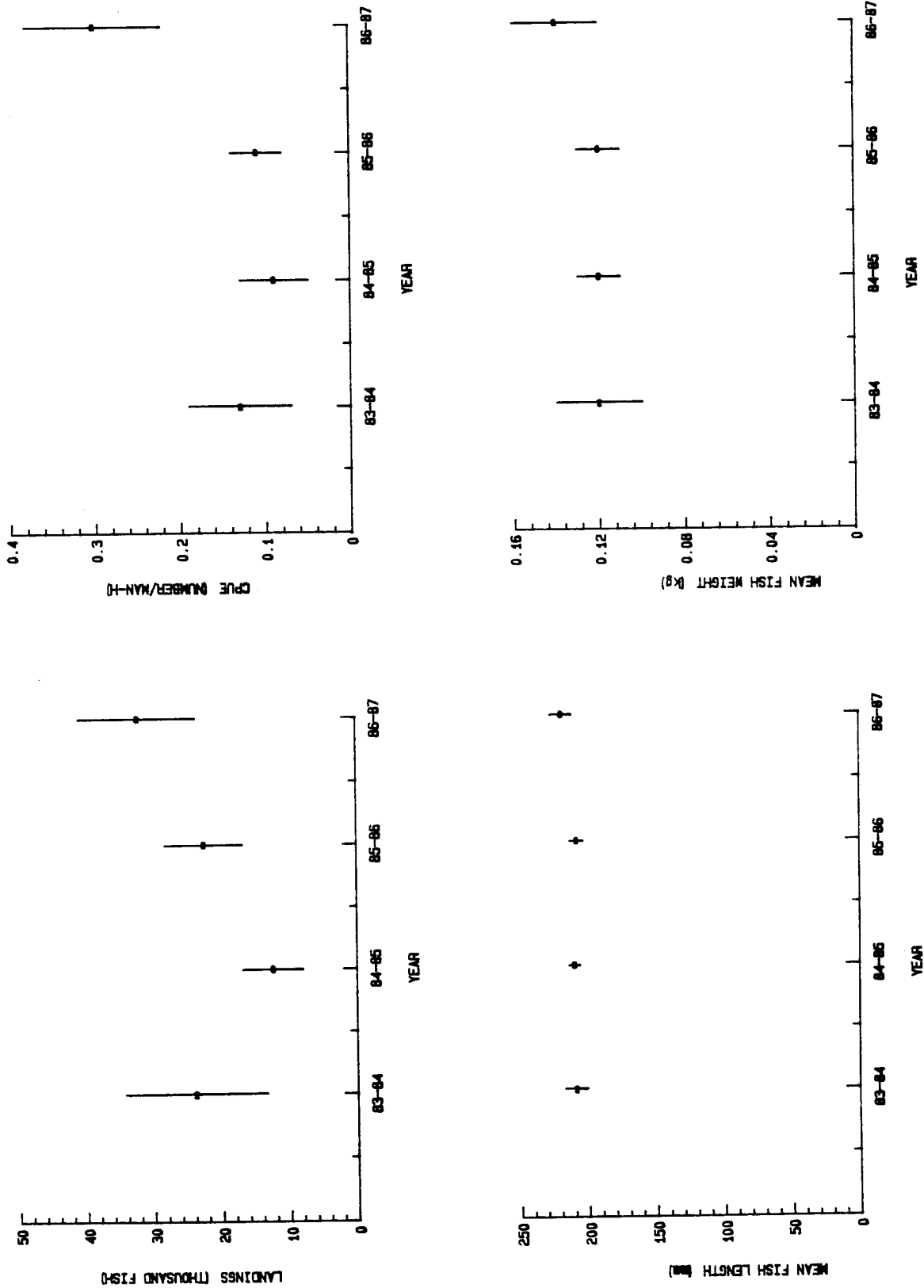


Figure 36. Coastwide annual statistics for Atlantic croaker landed from bays and passes by headboat fishermen, May 1983-May 1987.

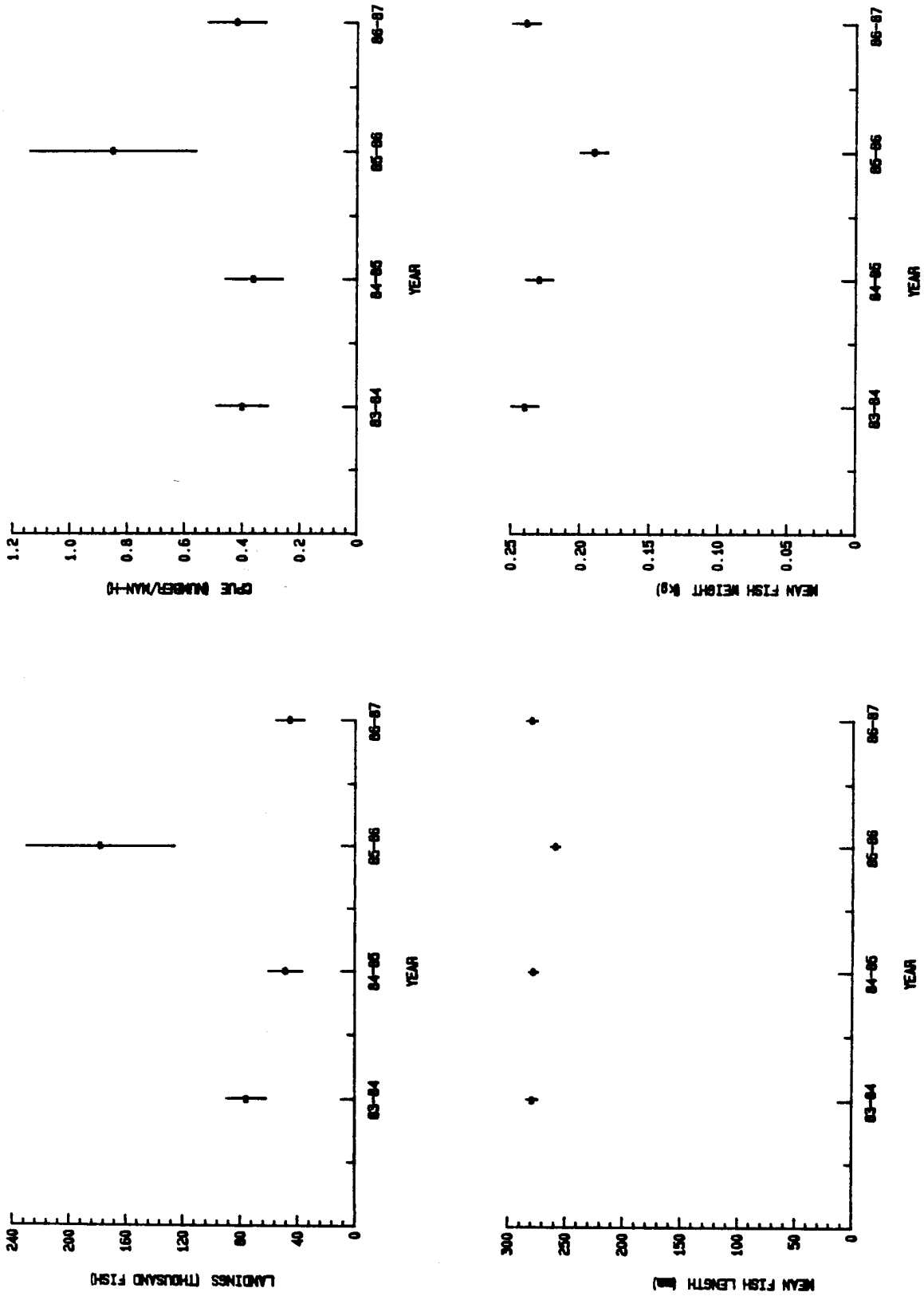


Figure 37. Coastwide annual statistics for sand seatrout landed from bays and passes by headboat fishermen, May 1983-May 1987.

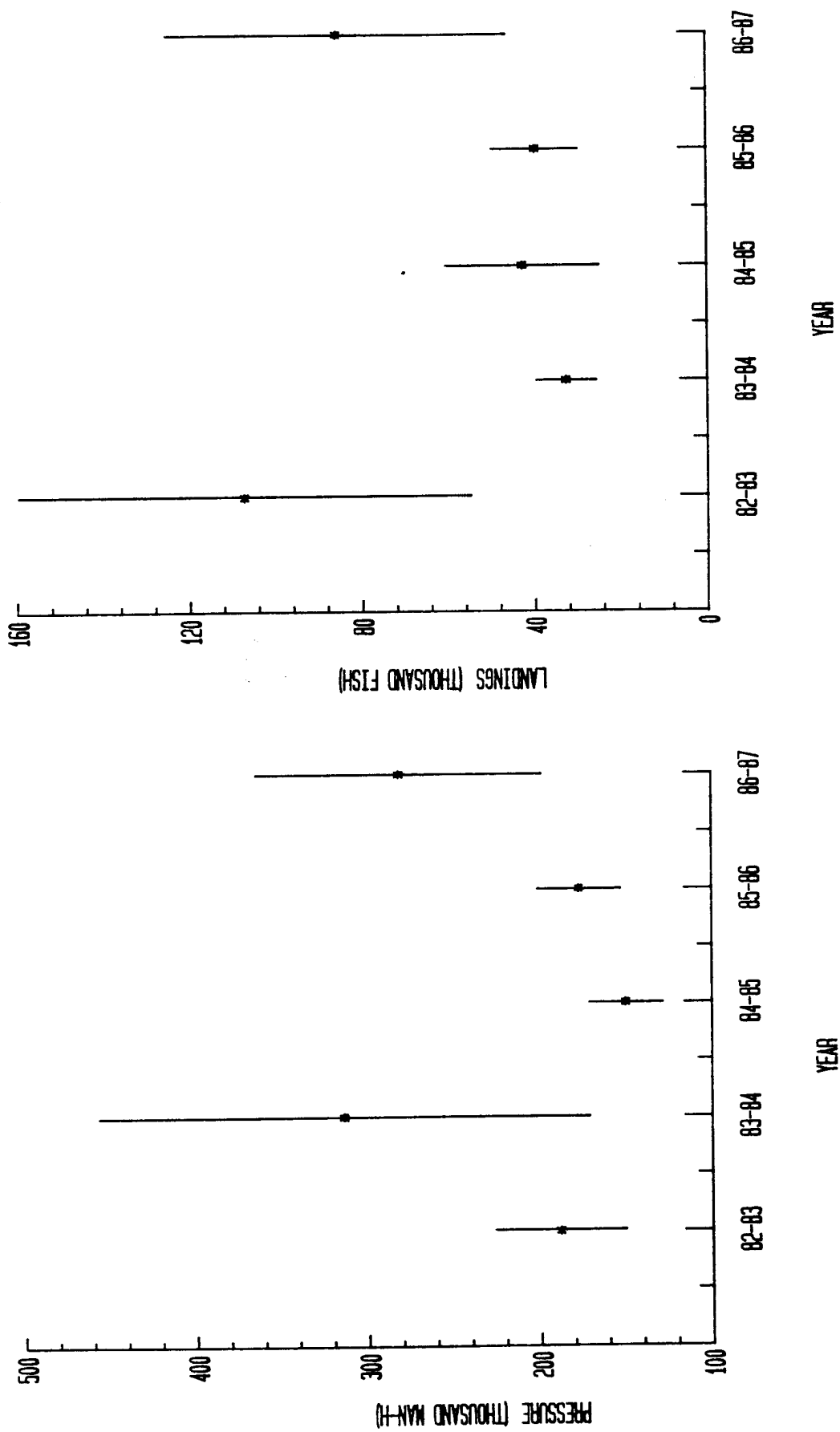


Figure 38. Coastwide annual private-boat fishing pressure (± 1 SE) and landings (± 1 SE) in the Texas Territorial Sea, May 1982-May 1987.

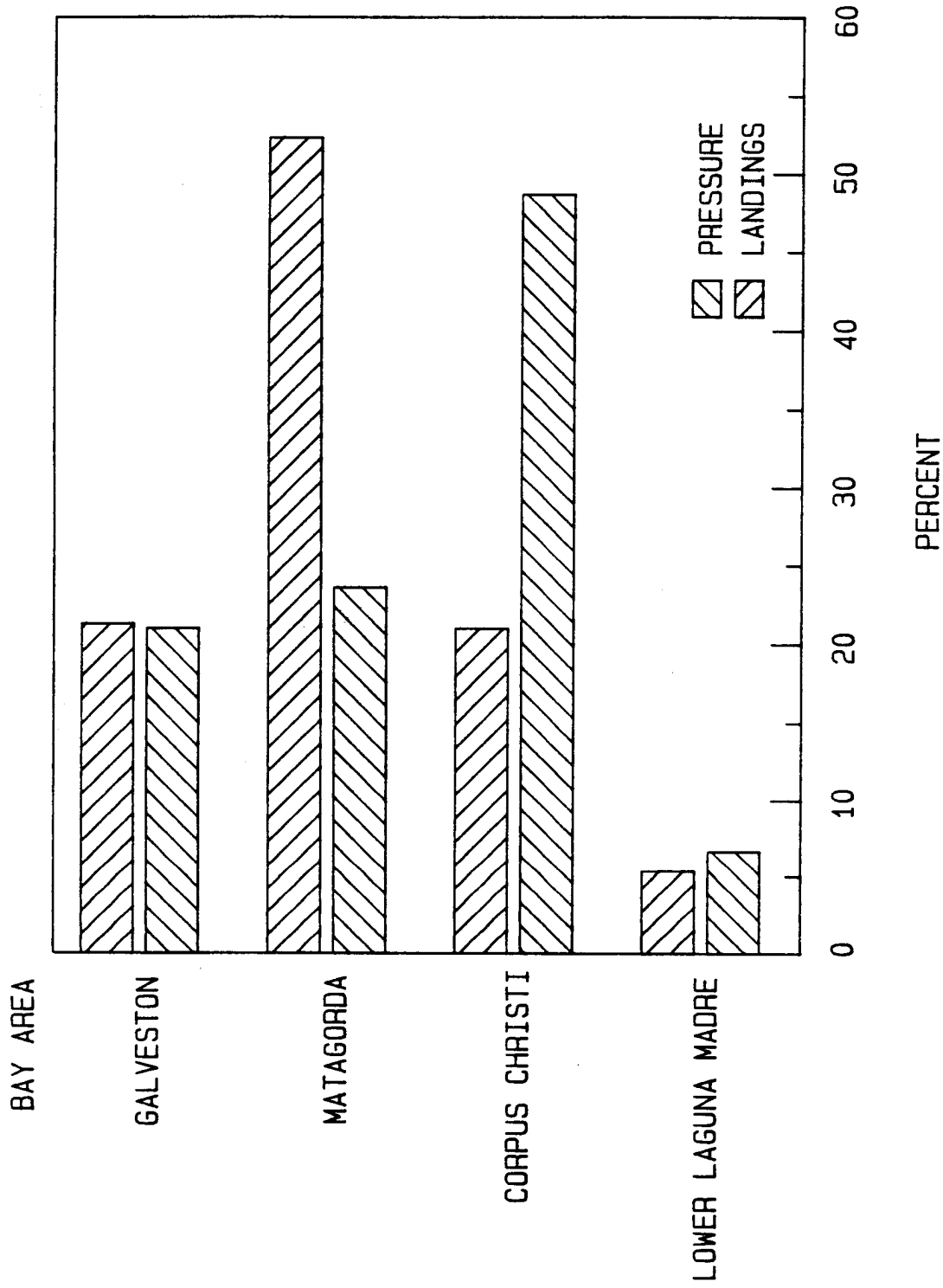


Figure 39. Percent distribution of annual Texas Territorial Sea private-boat fishing pressure and landings among bay areas, May 1982-May 1987 (5-year mean).

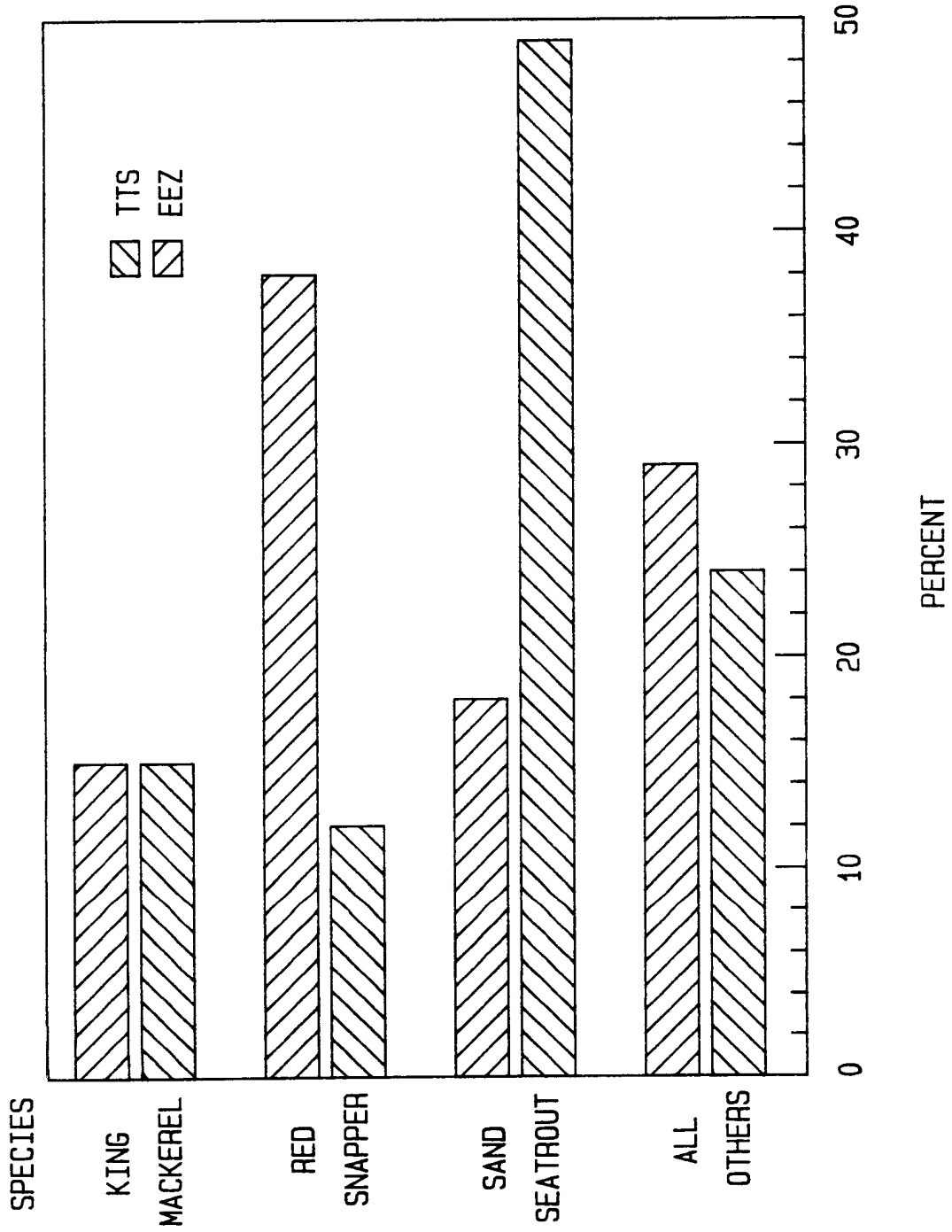


Figure 40. Species composition (%) of coastwide annual Texas Territorial Sea and Exclusive Economic Zone private-boat finfish landings, May 1982-May 1987 (5-year mean).

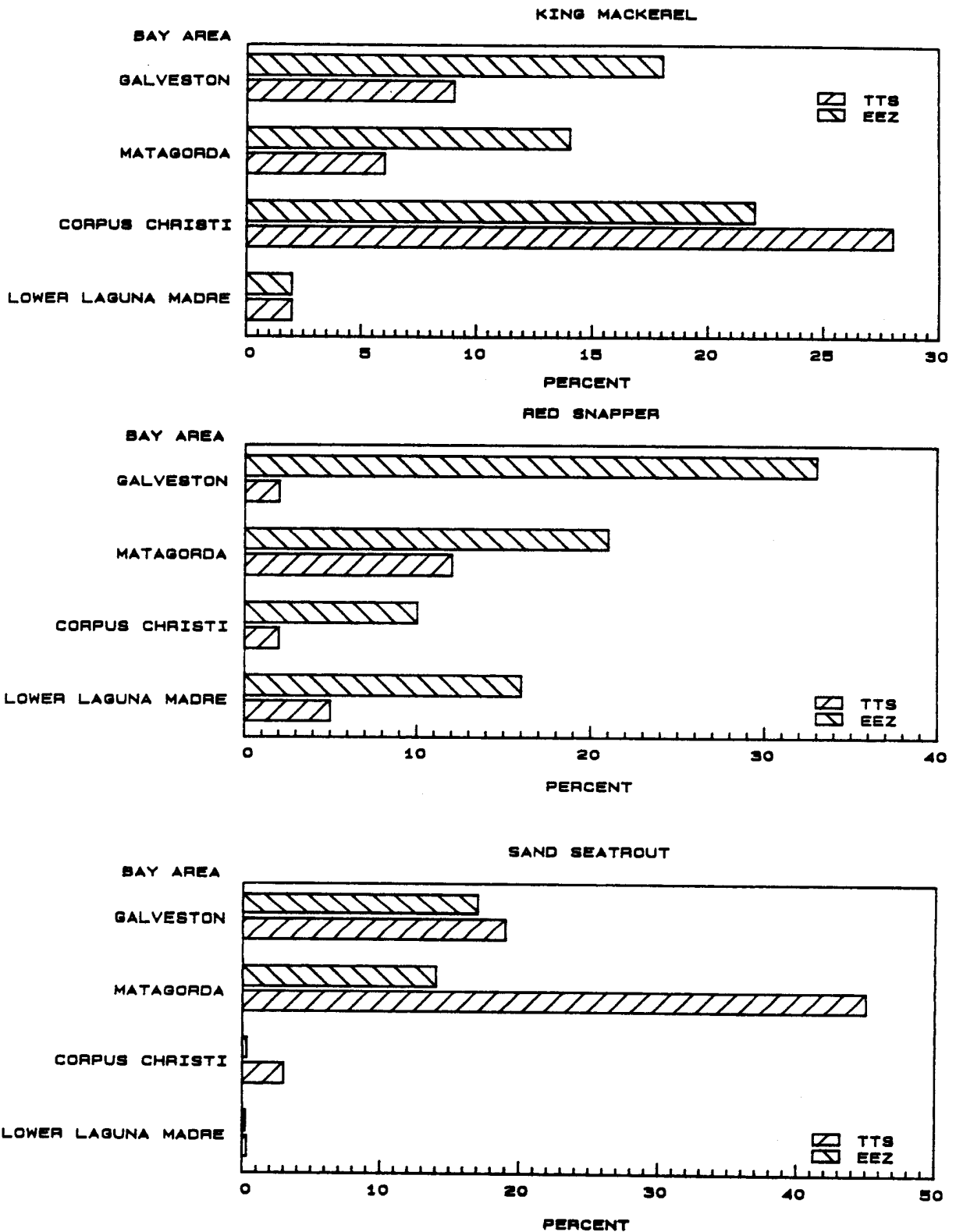


Figure 41. Distribution (%) of annual landings of selected finfish caught by Texas Territorial Sea and Exclusive Economic Zone private-boat fishermen among bay areas, May 1982-May 1987 (5-year mean).

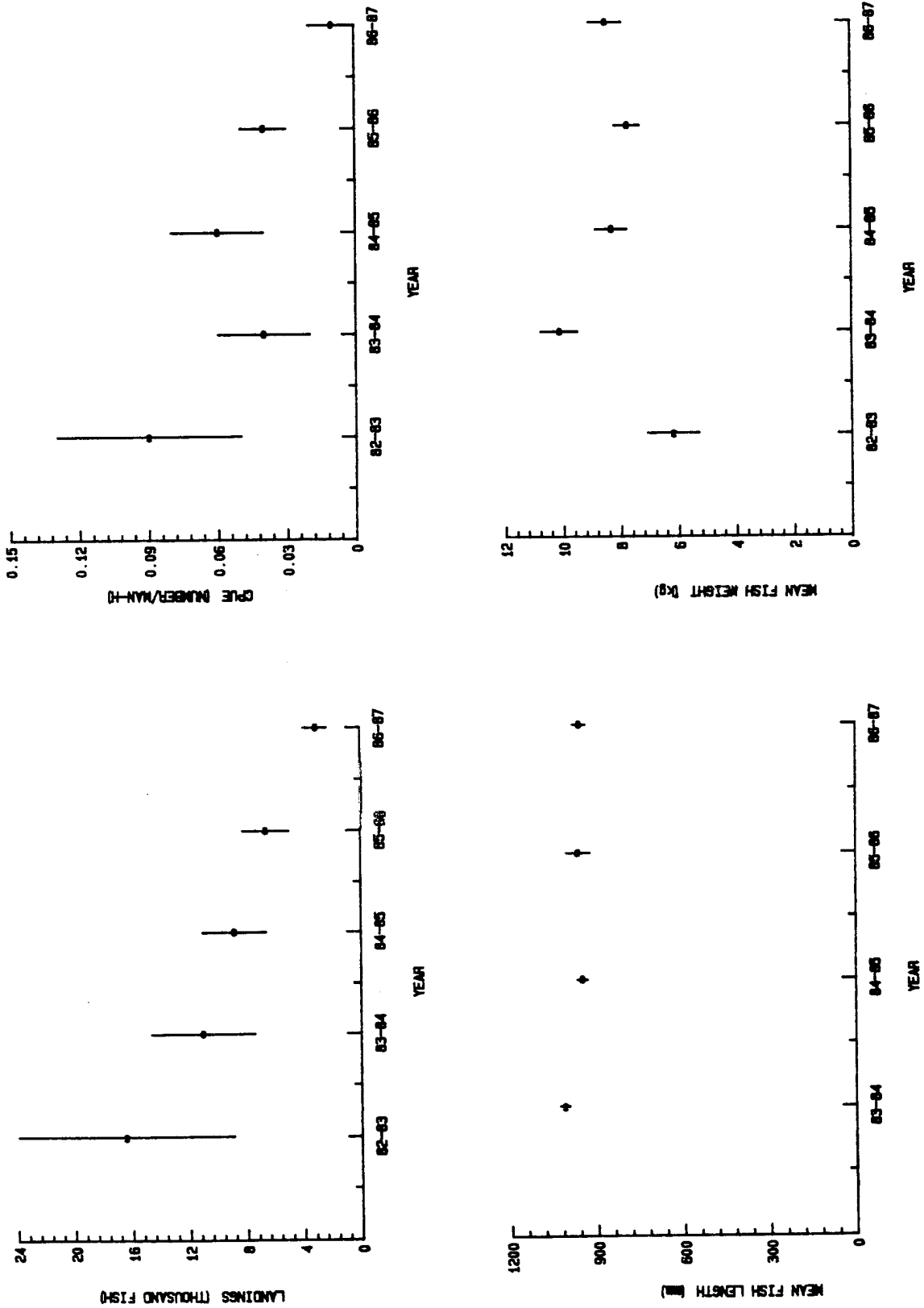


Figure 42. Coastwide annual statistics for king mackerel landed from Texas Territorial Sea by private-boat fishermen, May 1982-May 1987.

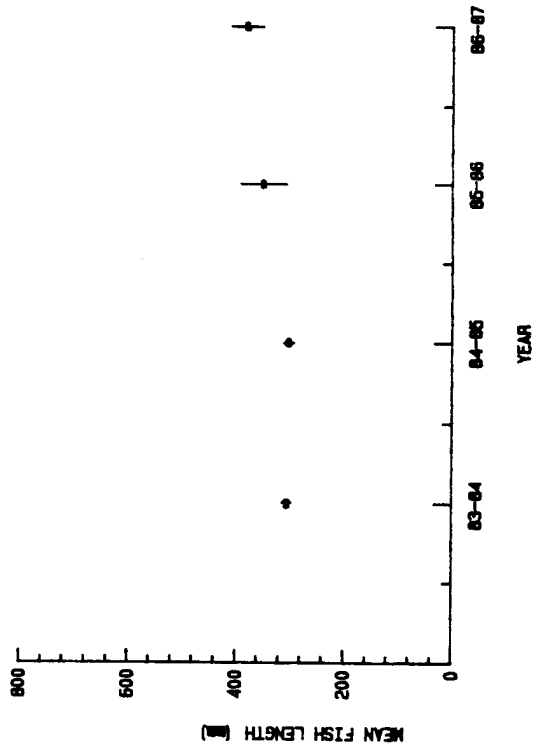
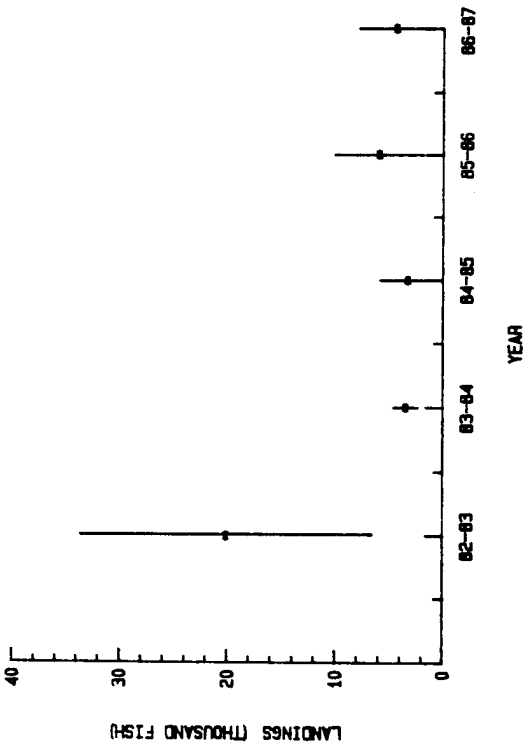
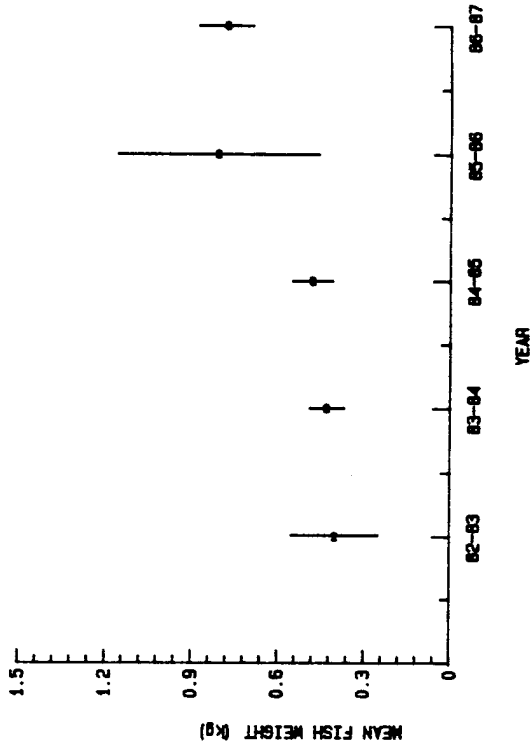
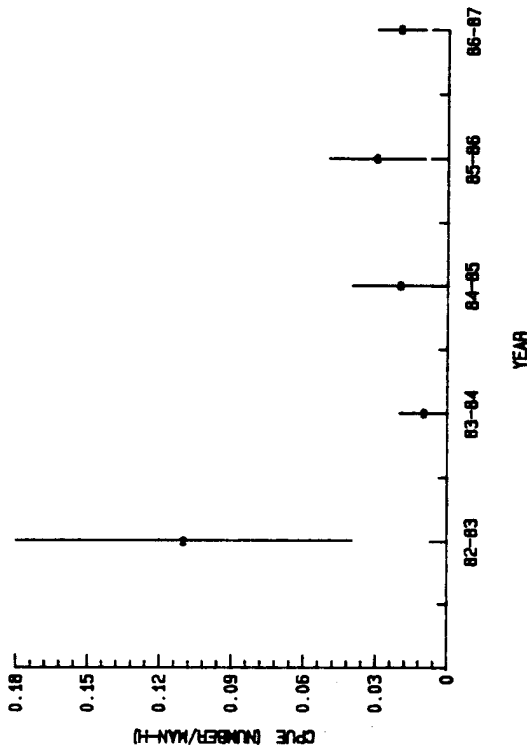


Figure 43. Coastwide annual statistics for red snapper landed from Texas Territorial Sea by private boat fishermen, May 1982-May 1987.

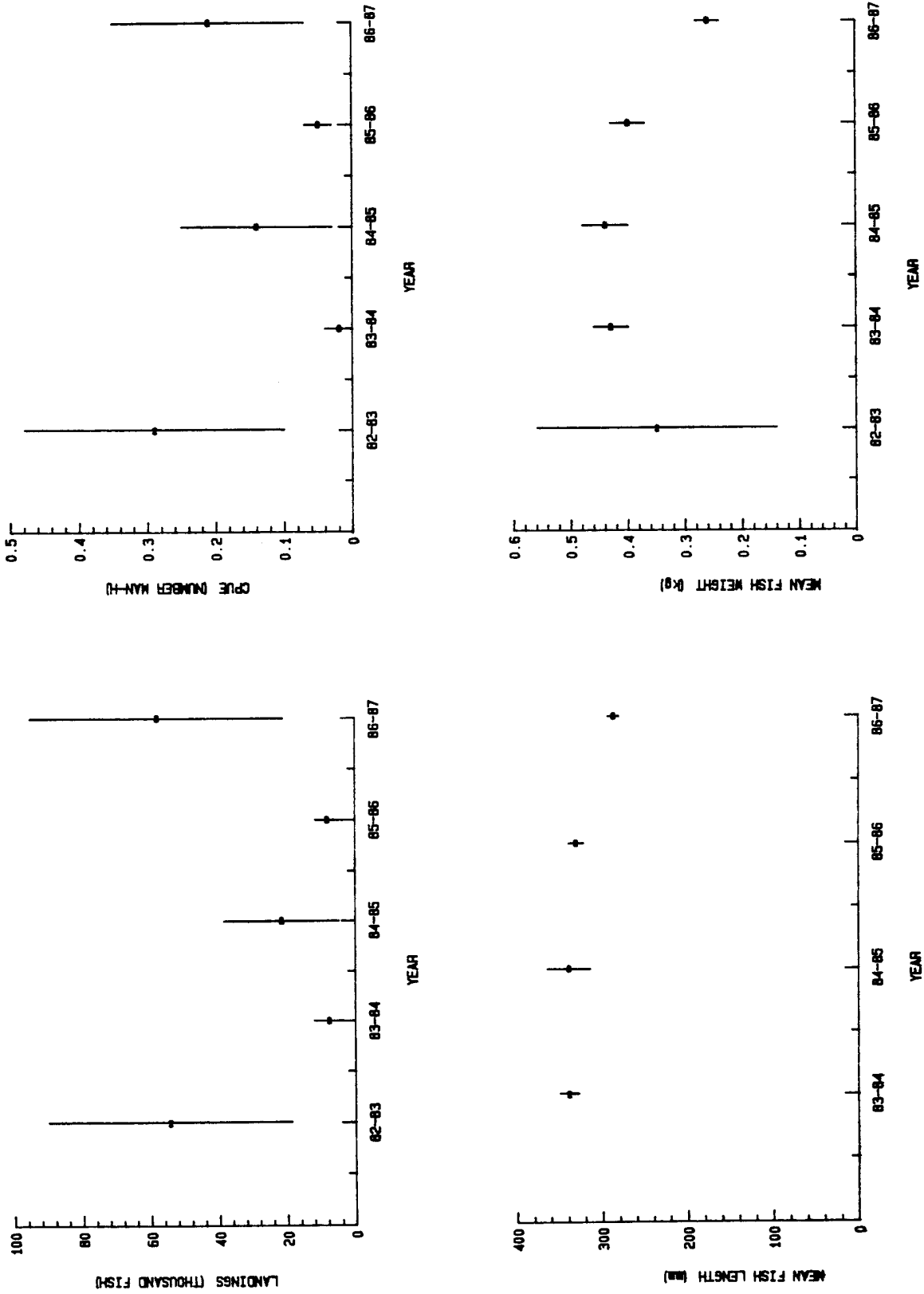


Figure 44. Coastwide annual statistics for sand seatrout landed from Texas Territorial Sea by private-boat fishermen, May 1982-May 1987.

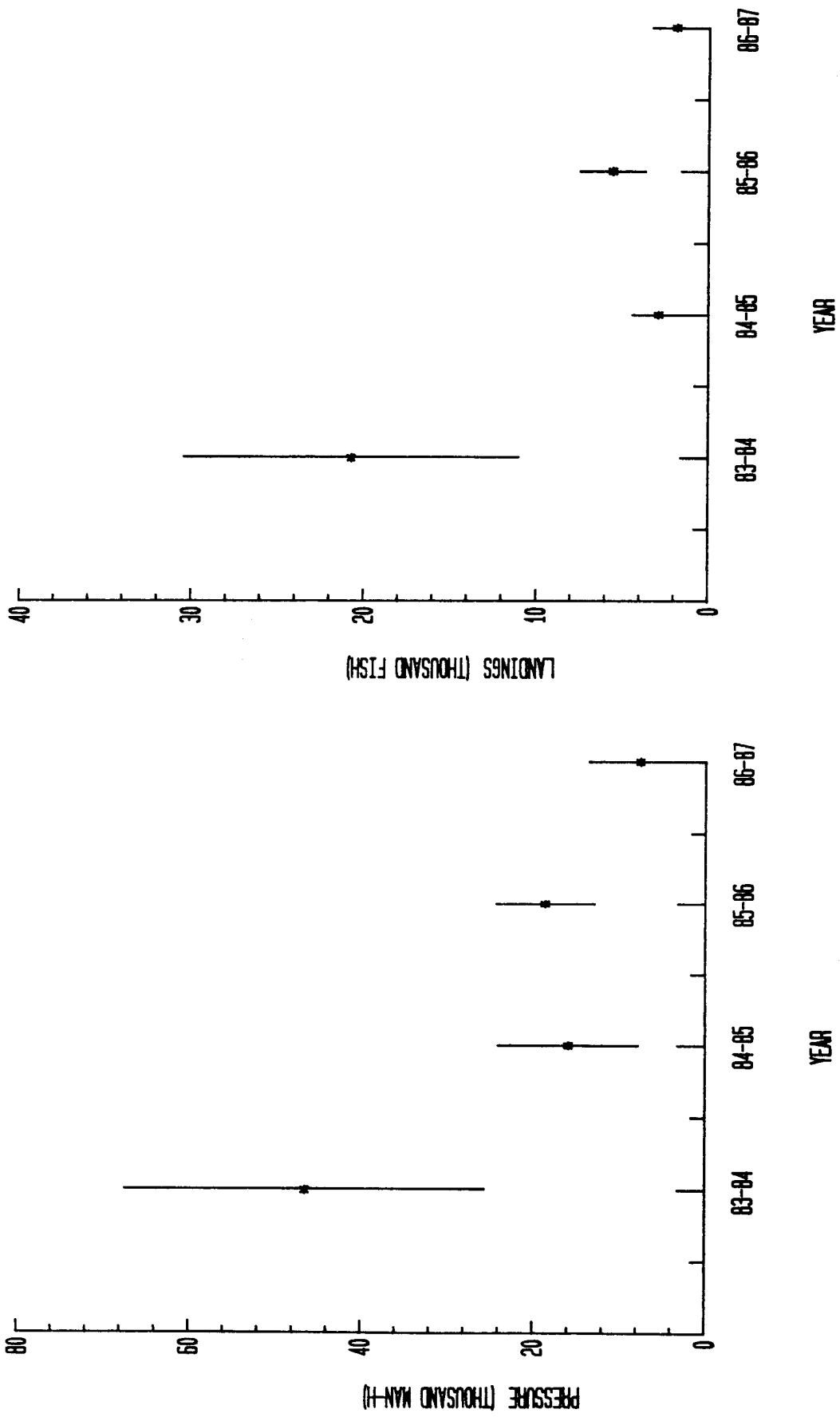


Figure 45. Coastwide annual party-boat fishing pressure (± 1 SE) and landings (± 1 SE) in the Texas Territorial Sea, May 1983-May 1987.

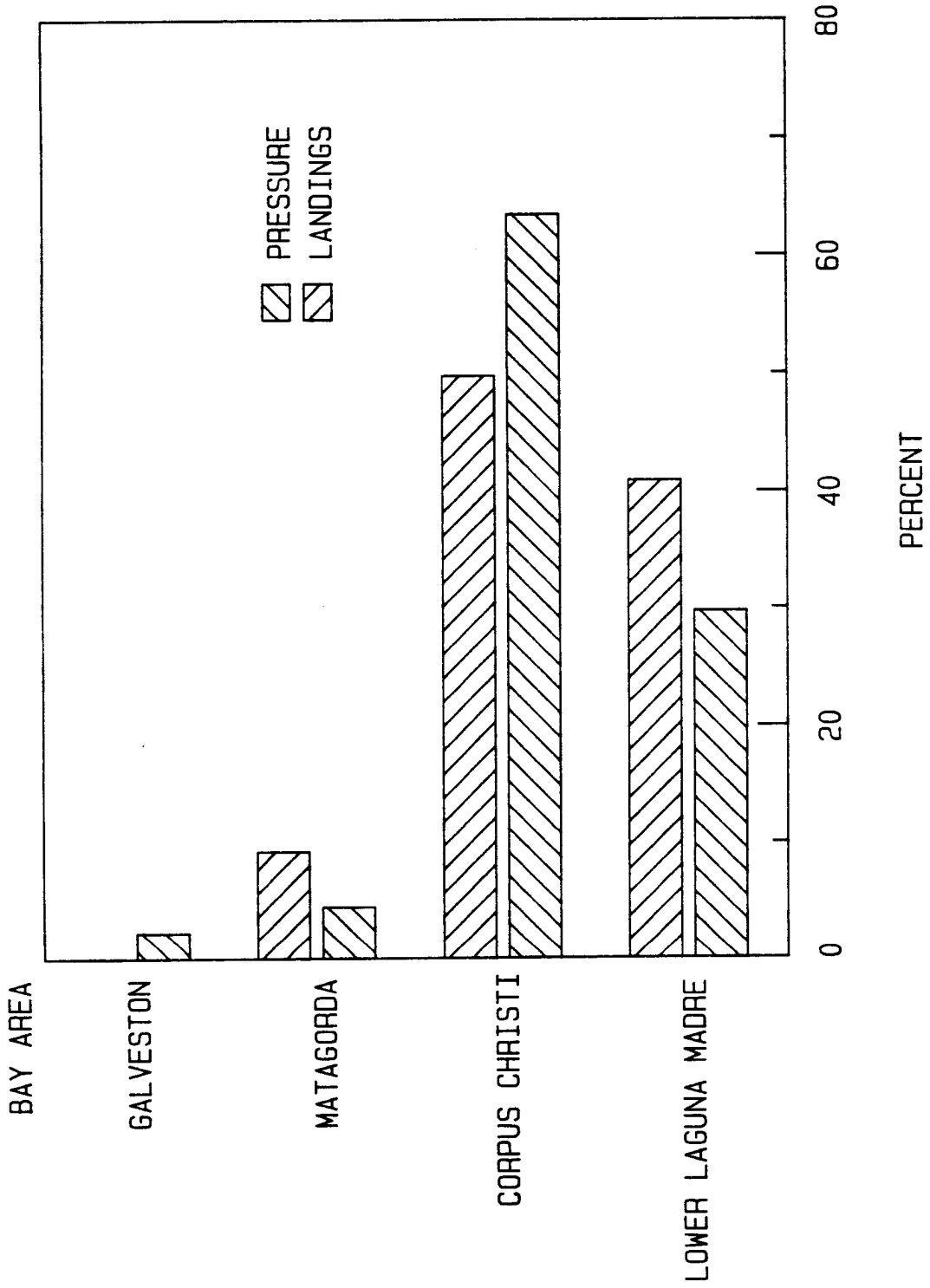


Figure 46. Percent distribution of annual Texas Territorial Sea party-boat fishing pressure and landings among bay areas, May 1983-May 1987 (4-year mean).

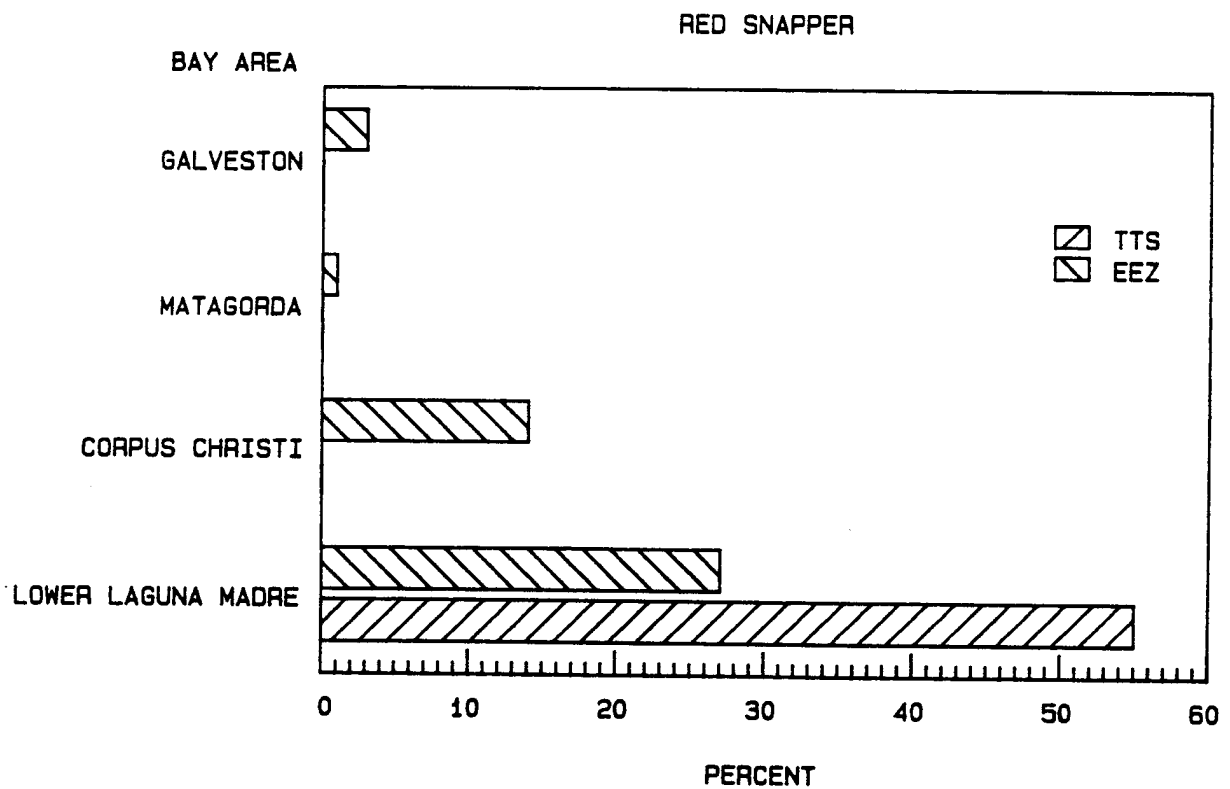
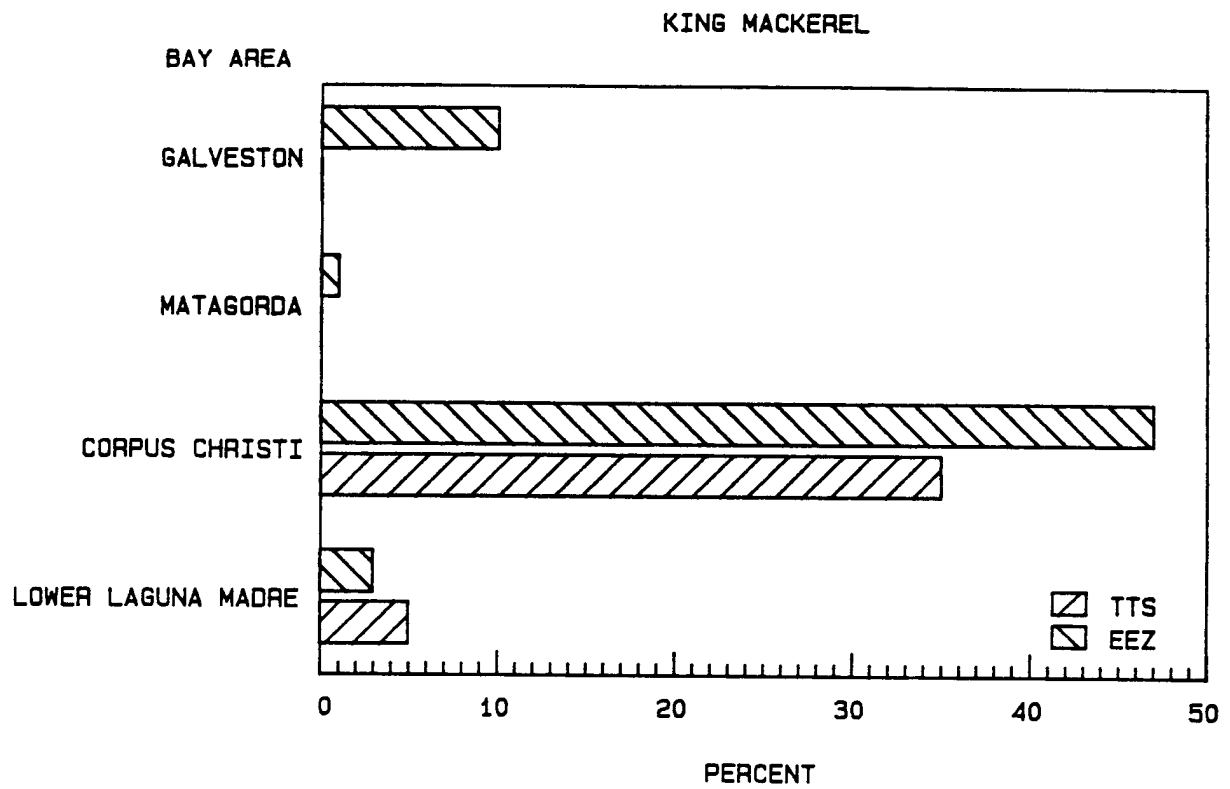


Figure 47. Distribution of annual landings of king mackerel and red snapper caught by Texas Territorial Sea and Exclusive Economic Zone party-boat fishermen among bay areas, May 1983-May 1987 (4-year mean).

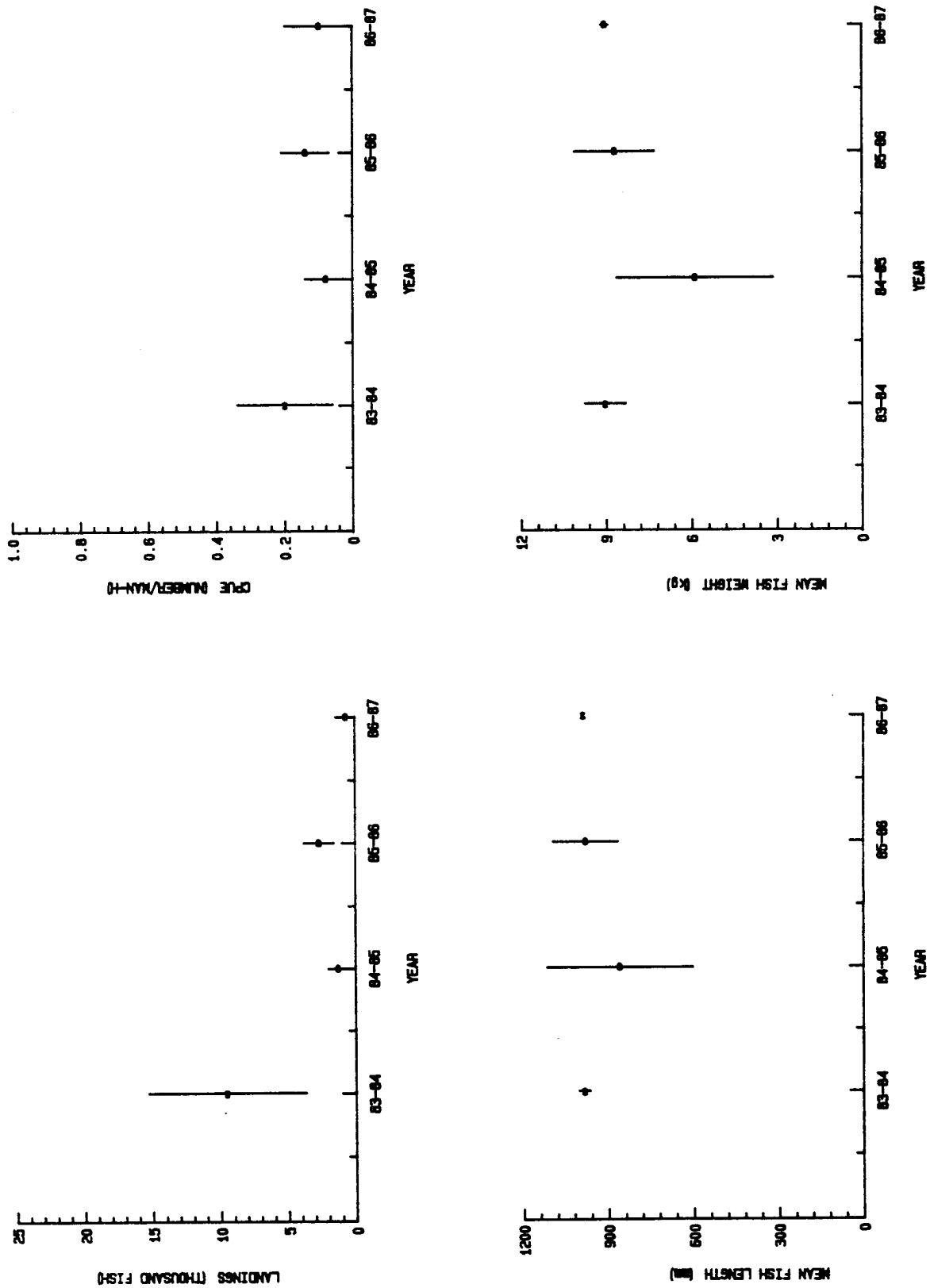


Figure 48. Coastwide annual statistics for king mackerel landed from Texas Territorial Sea by party-boat fishermen, May 1983-May 1987.

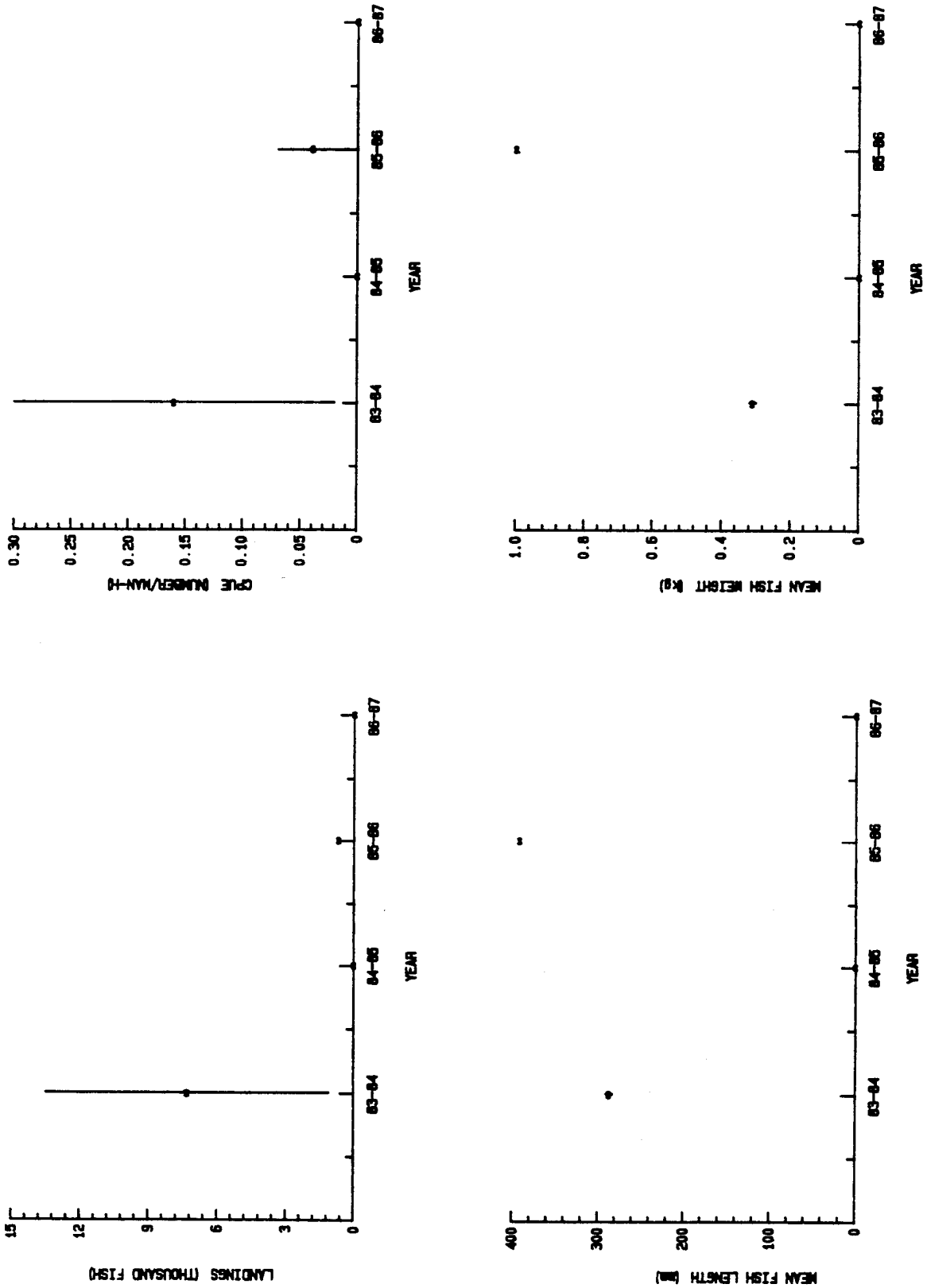


Figure 49. Coastwide annual statistics for red snapper landed from Texas Territorial Sea by party-boat fishermen, May 1983-May 1987.

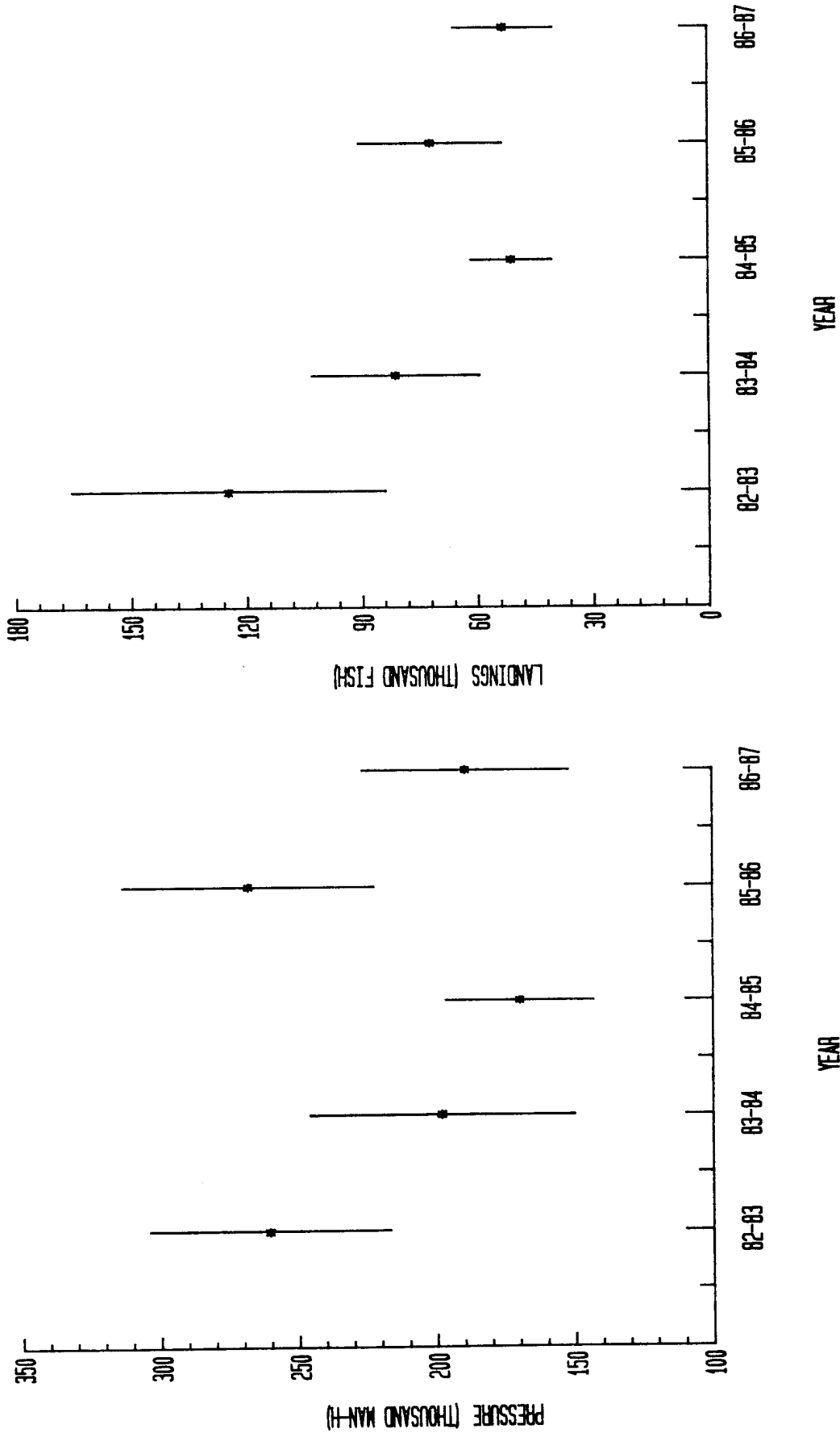


Figure 50. Coastwide annual private-boat fishing pressure (\pm 1 SE) and landings (\pm 1 SE) in the Exclusive Economic Zone, May 1982-May 1987.

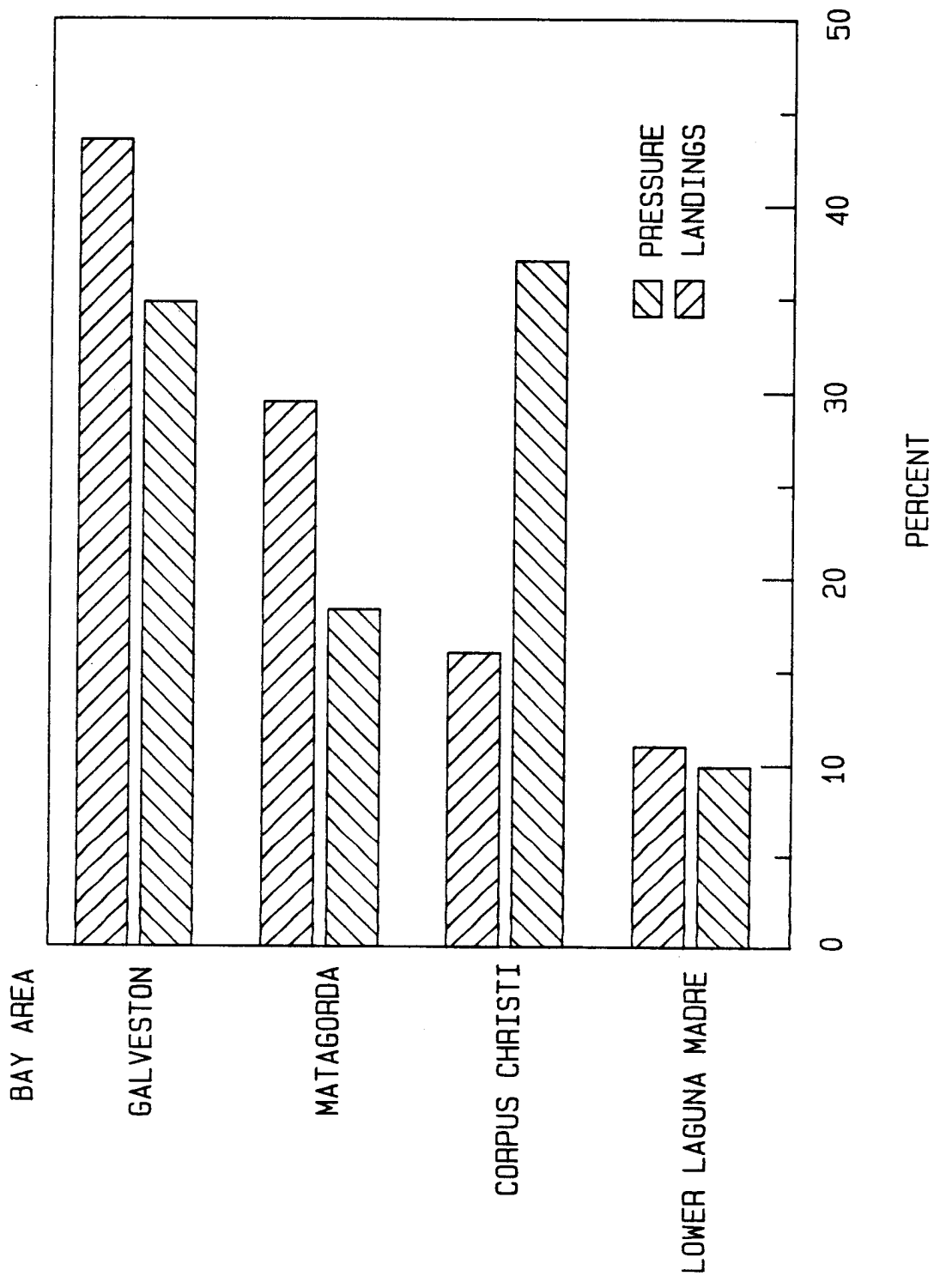


Figure 51. Percent distribution of annual Exclusive Economic Zone private-boat fishing pressure and landings among bay areas, May 1982-May 1987 (5-year mean).

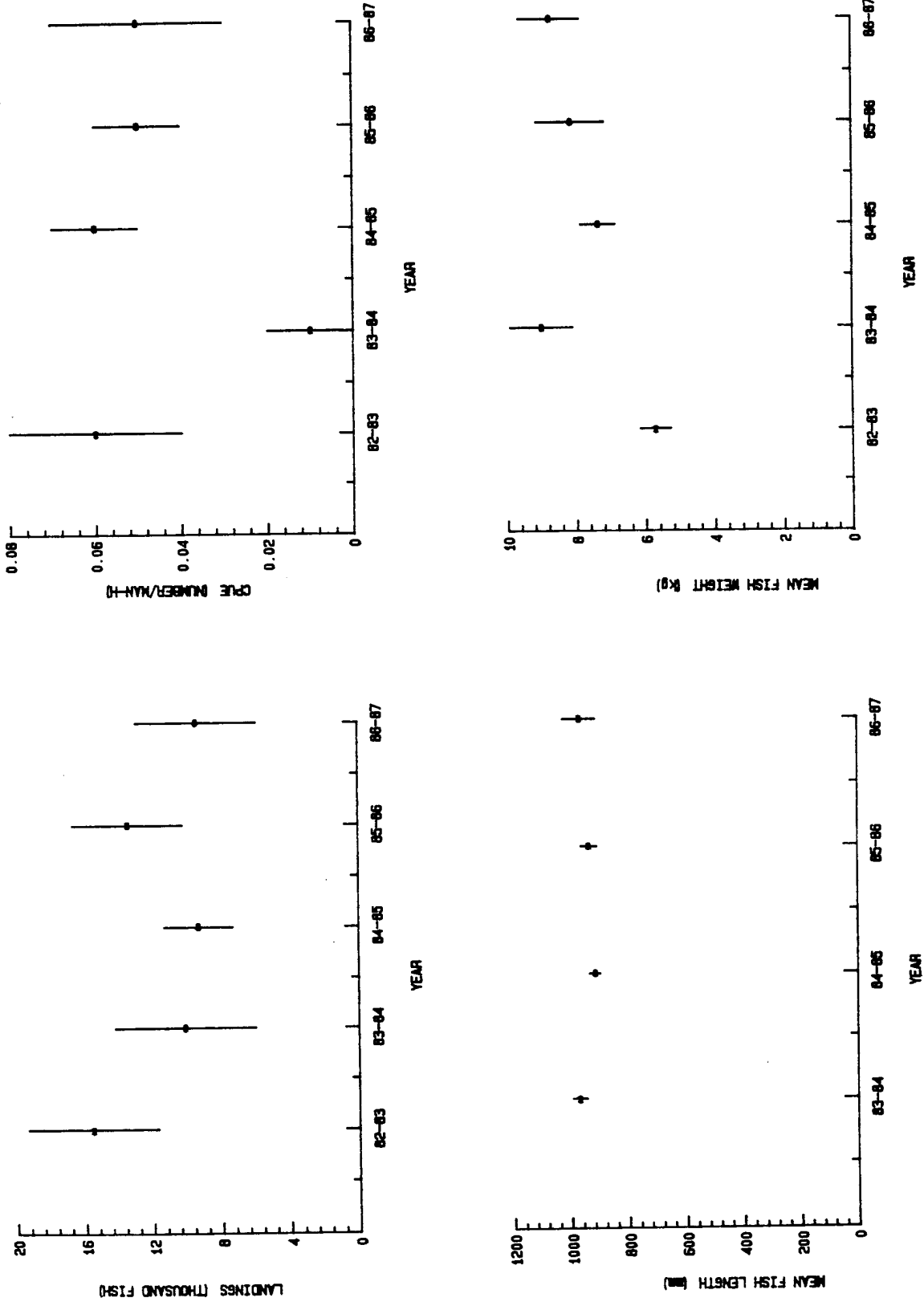


Figure 52. Coastwide annual statistics for king mackerel landed from Exclusive Economic Zone by private-boat fishermen, May 1982-May 1987.

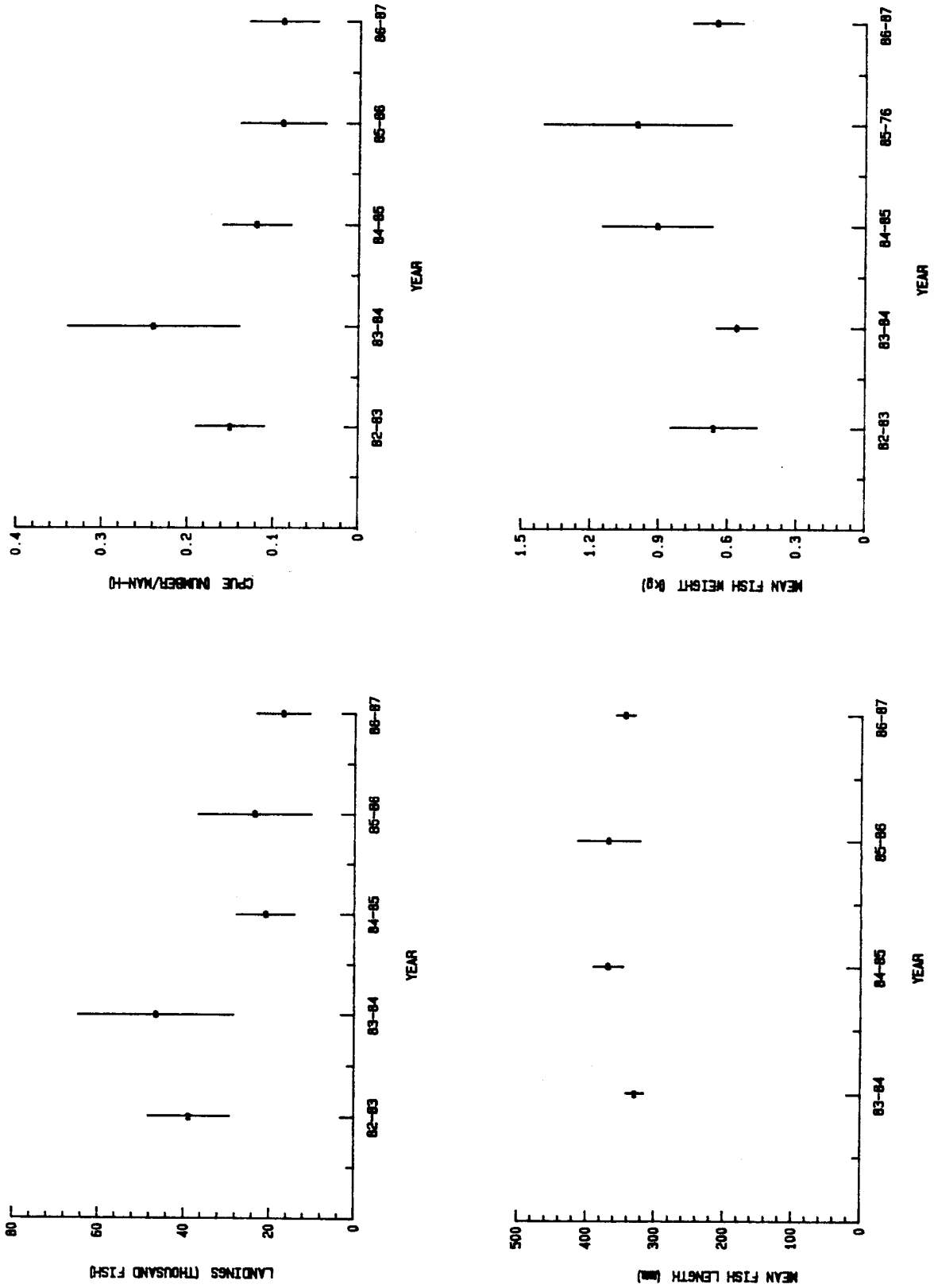


Figure 53. Coastwide annual statistics for red snapper landed from Exclusive Economic Zone by private-boat fishermen, May 1982-May 1987.

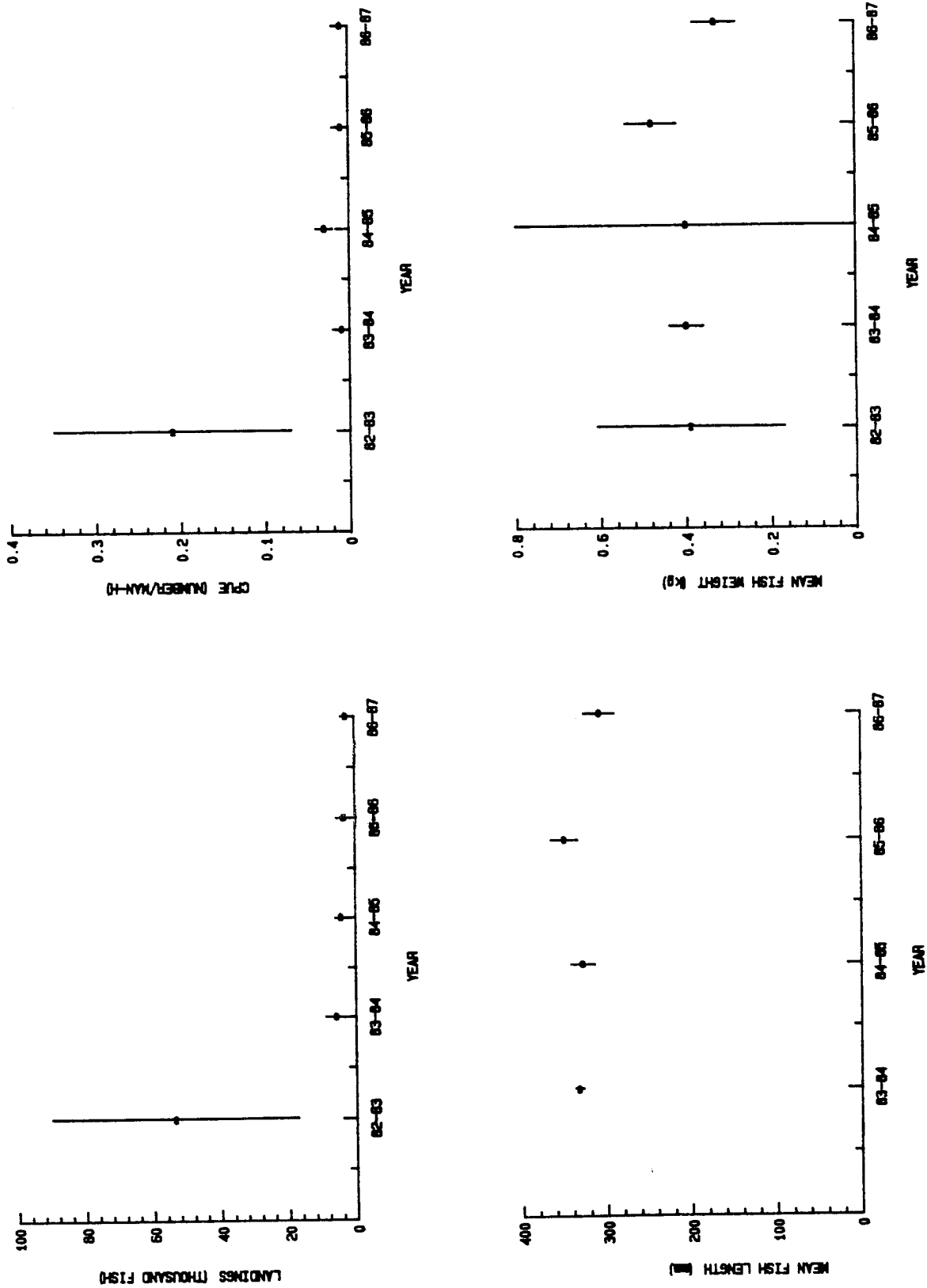


Figure 54. Coastwide annual statistics for sand seatrout landed from Exclusive Economic Zone by private-boat fishermen, May 1982-May 1987.

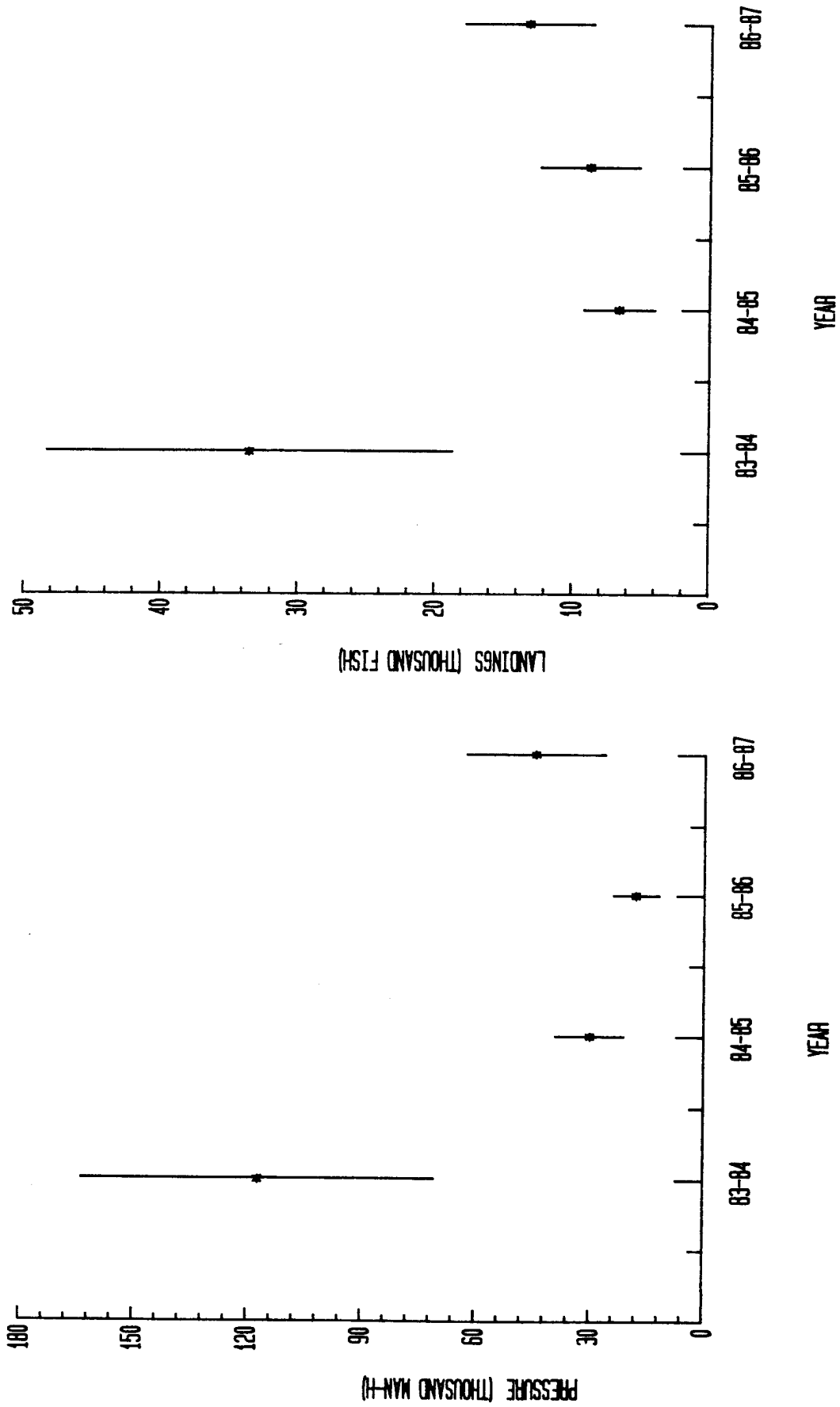


Figure 55. Coastwide annual party-boat fishing pressure (+ 1 SE) and landings (+ 1 SE) in the Exclusive Economic Zone, May 1983-May 1987.

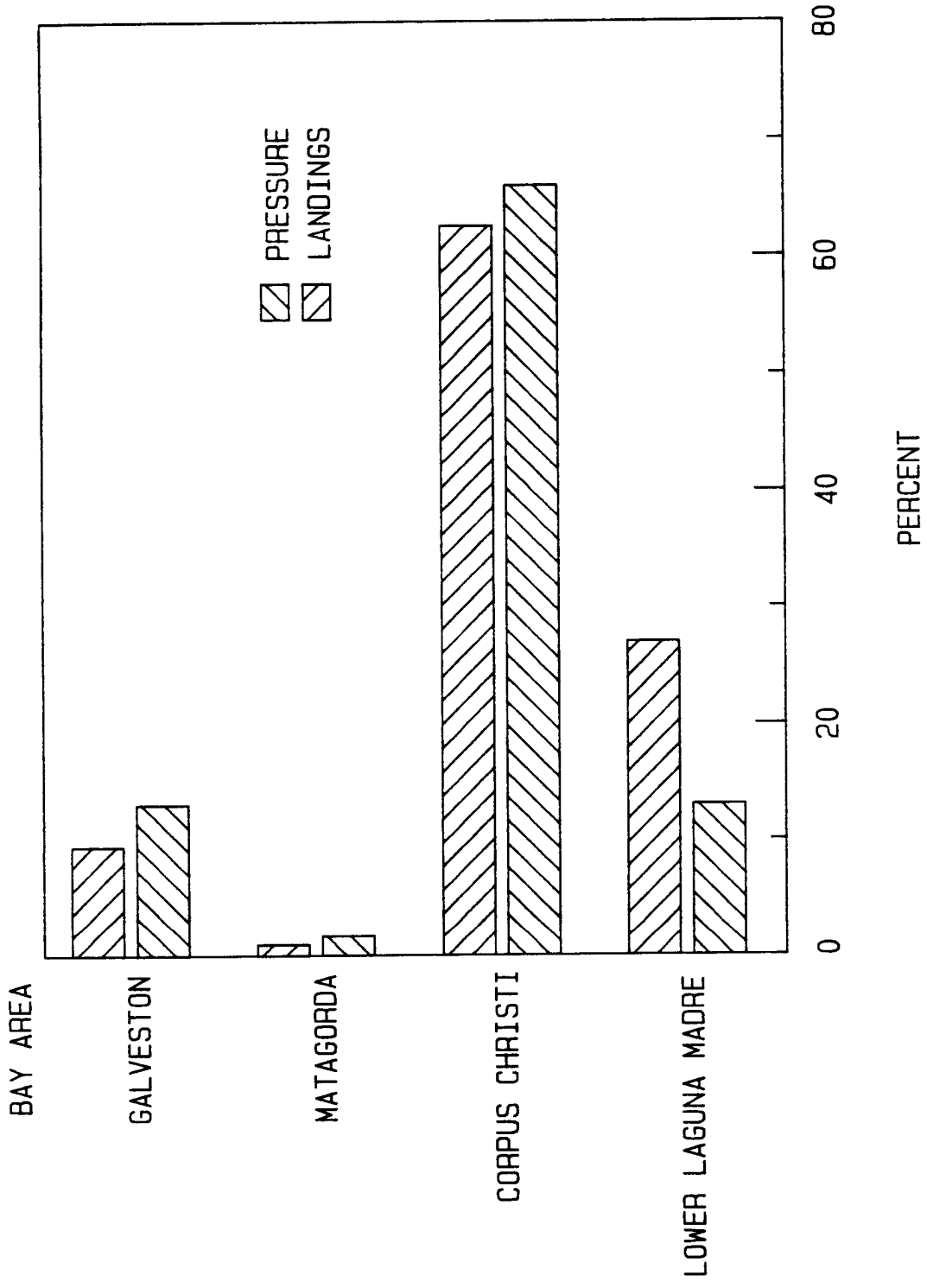


Figure 56. Percent distribution of annual Exclusive Economic Zone party-boat fishing pressure and landings among bay areas, May 1983-May 1987 (4-year mean).

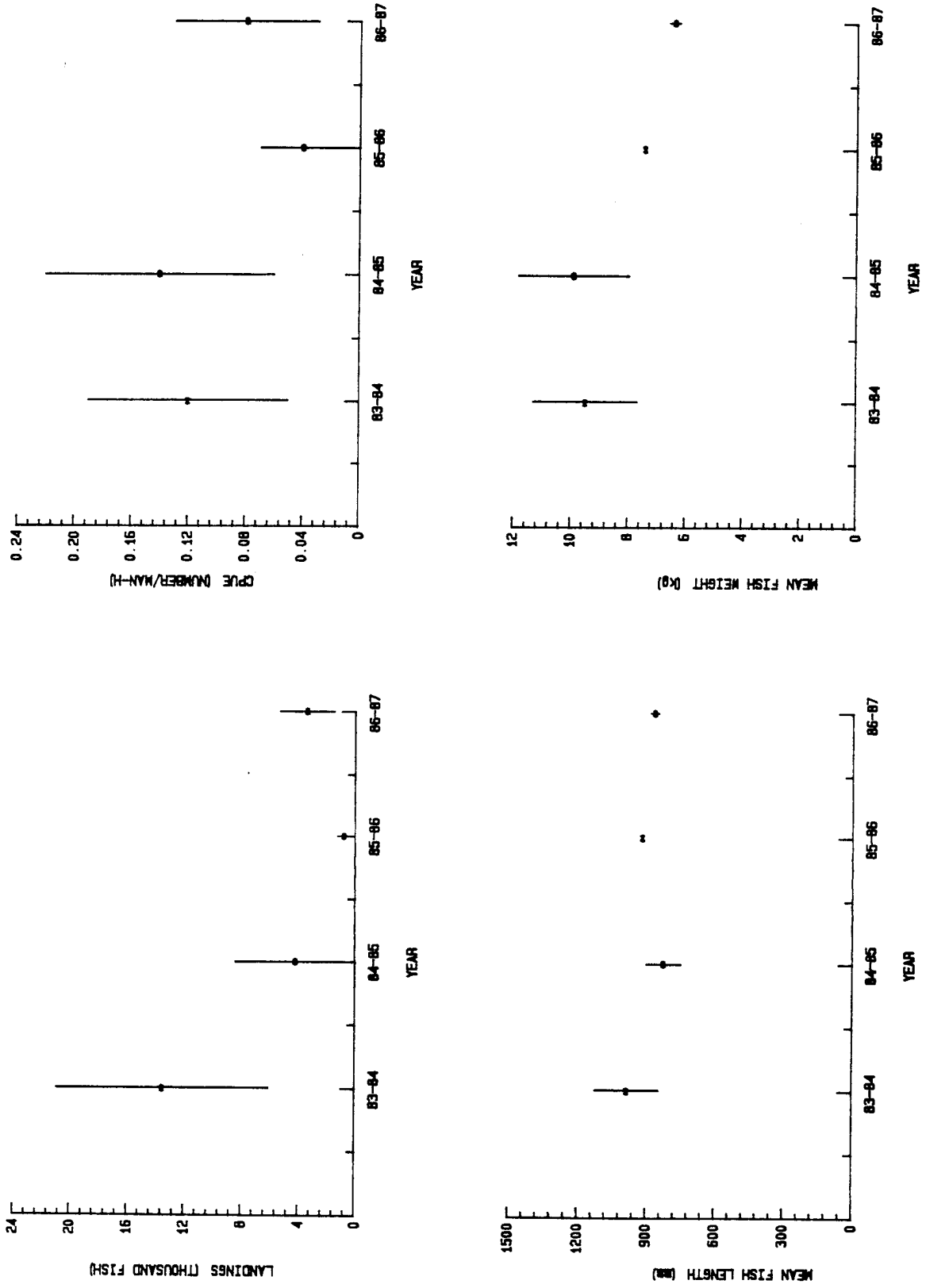


Figure 57. Coastwide annual statistics for king mackerel landed from Exclusive Economic Zone by party-boat fishermen, May 1983-May 1987.

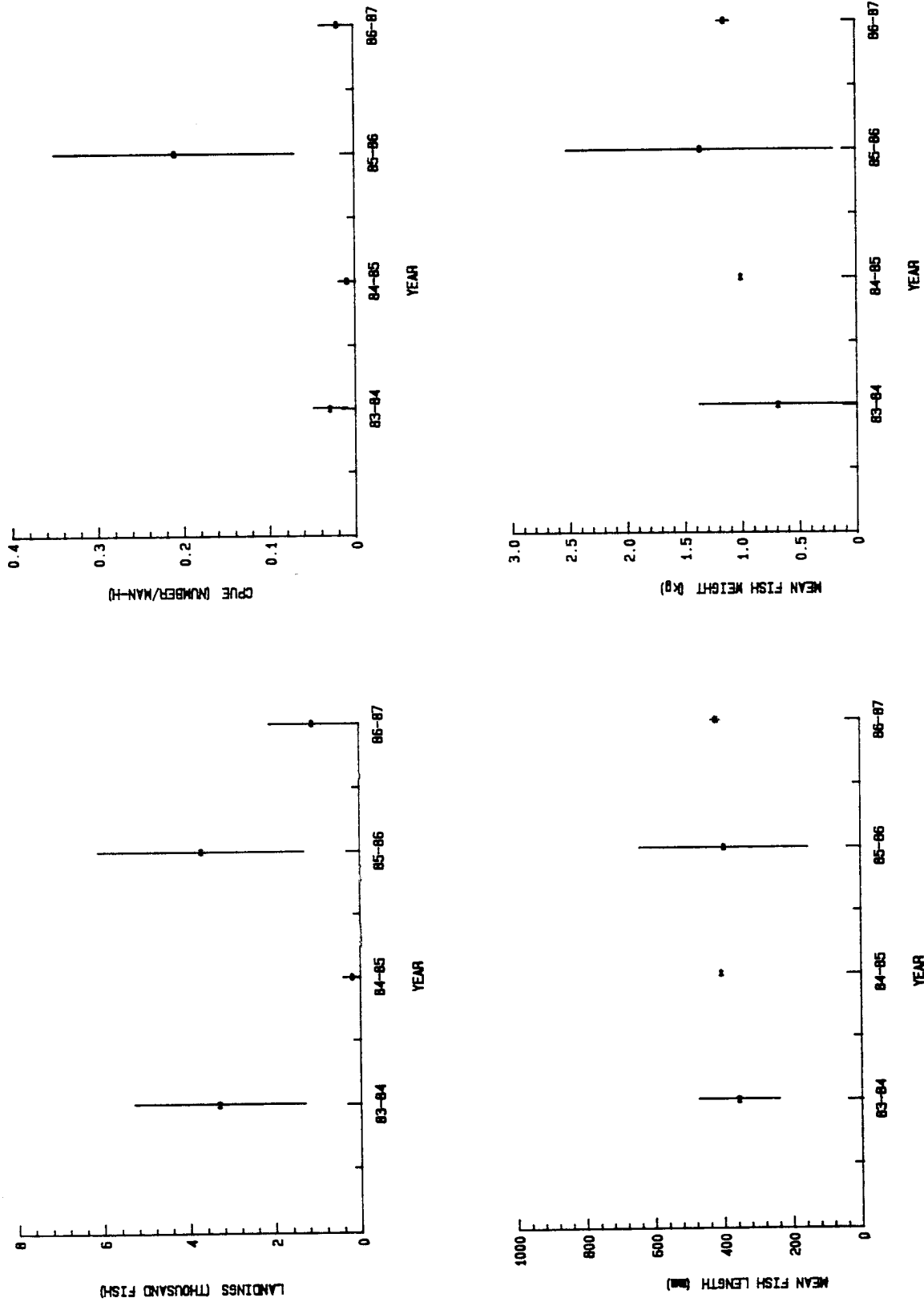


Figure 58. Coastwide annual statistics for red snapper landed from Exclusive Economic Zone by party-boat fishermen, May 1983-May 1987.

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 EEZ. 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.

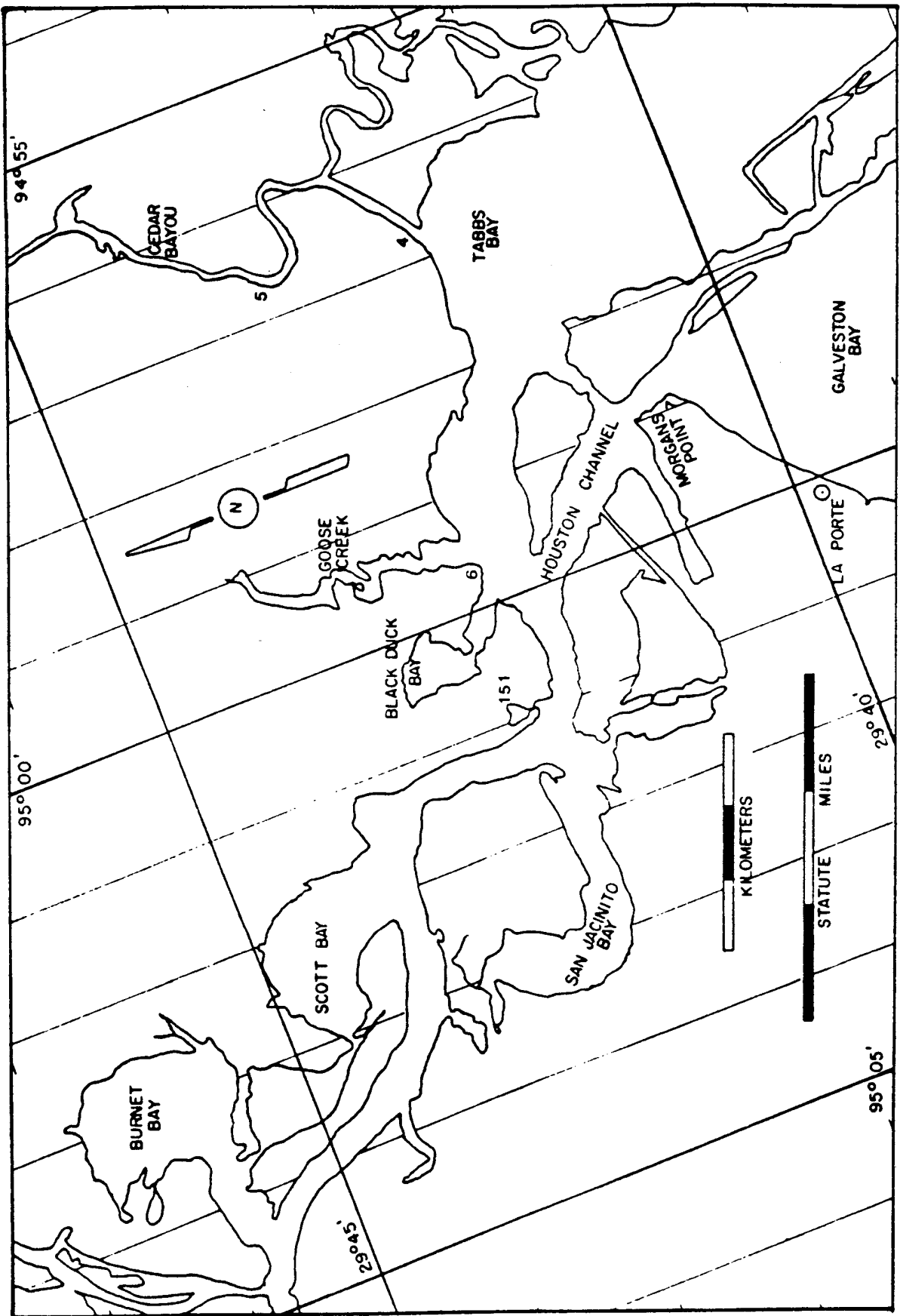
Lower Laguna Madre

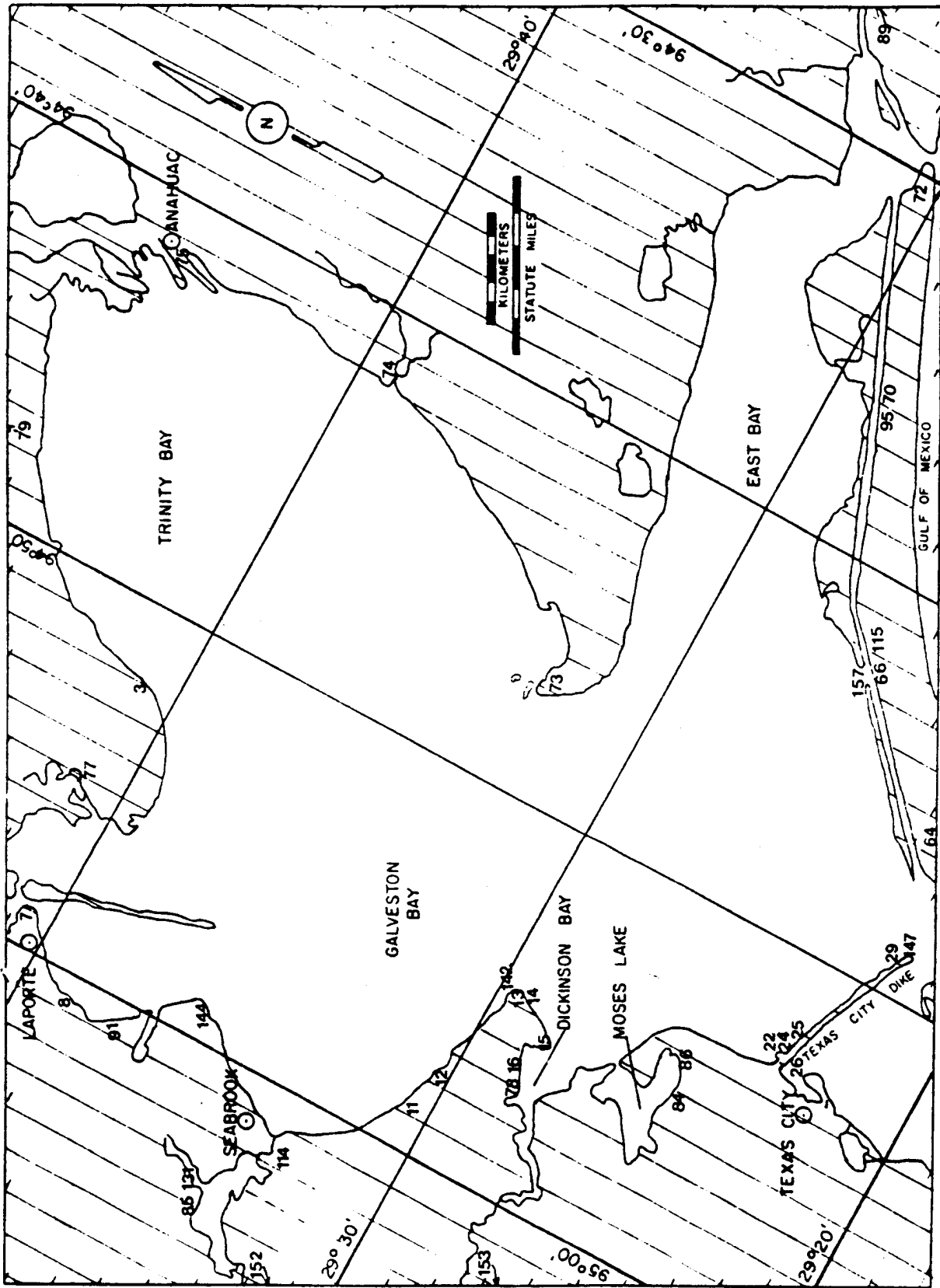
Mansfield Pass is the area extending from Marker 12 to 1.6 km gulfward of the end of the jetties.

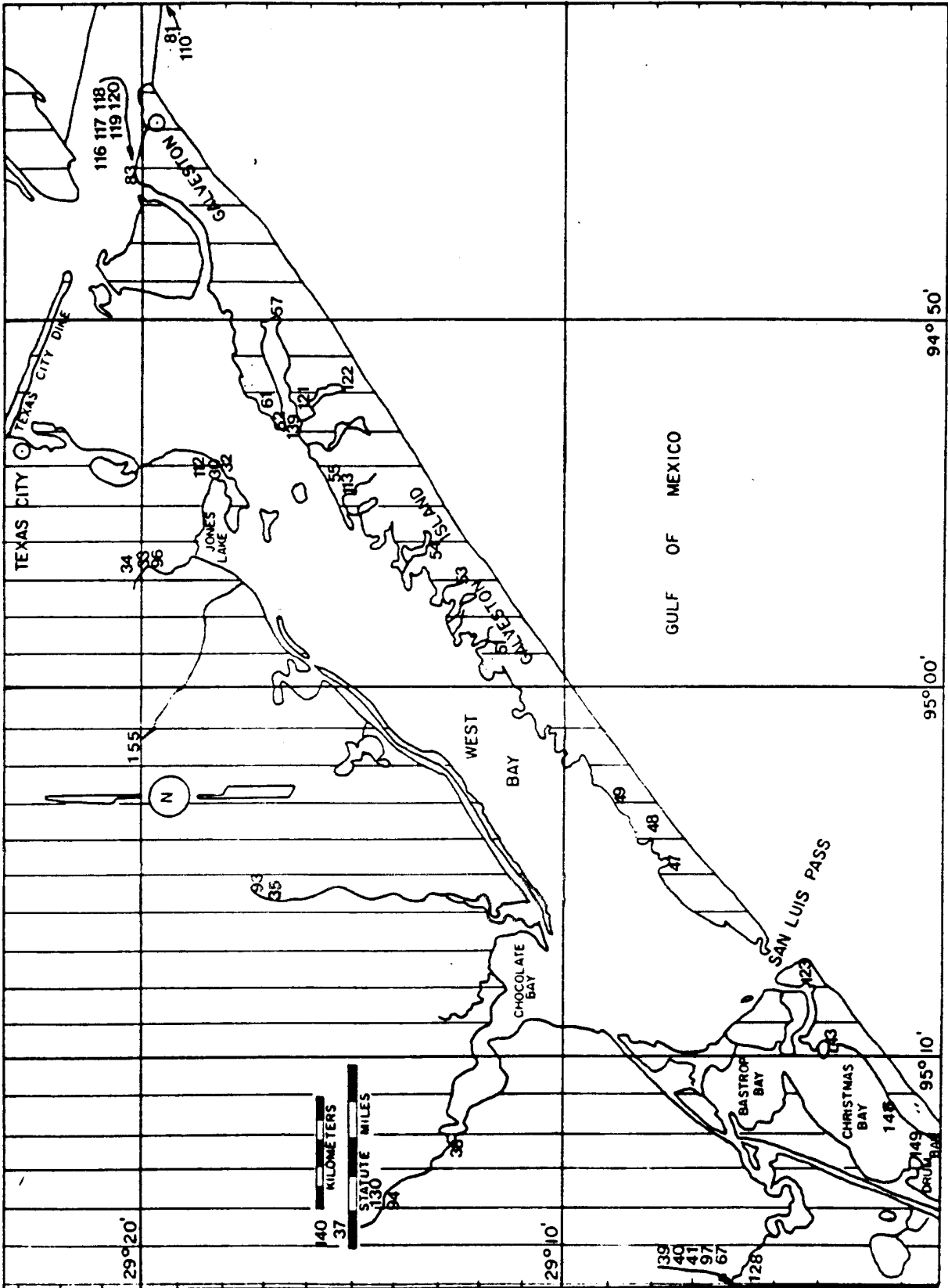
Brazos Santiago Pass is the area between a line from the Radio Beacon area south to Brazos Island out to 1.6 km gulfward of the end of the jetties.

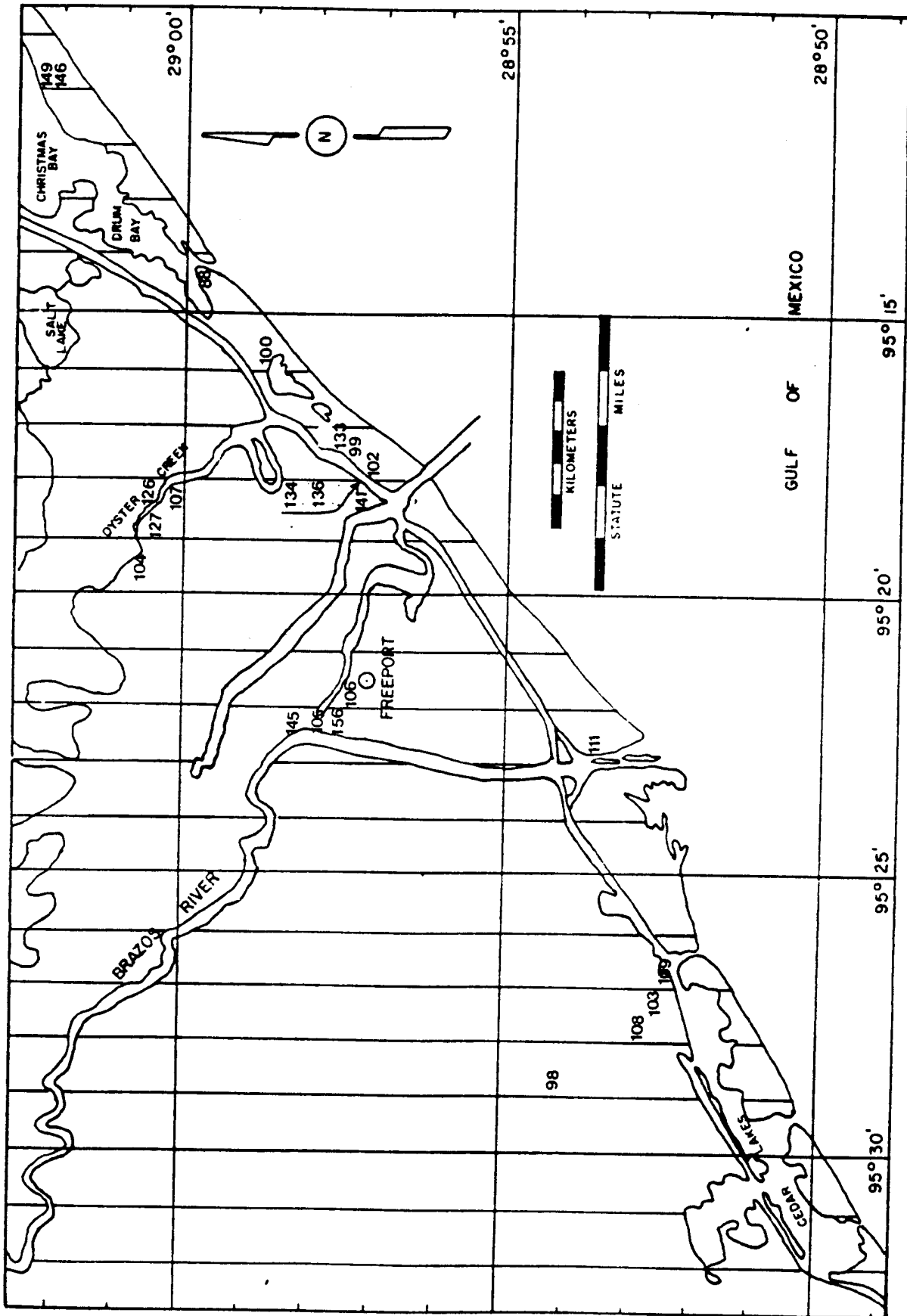
Appendix B: Survey site inventory.

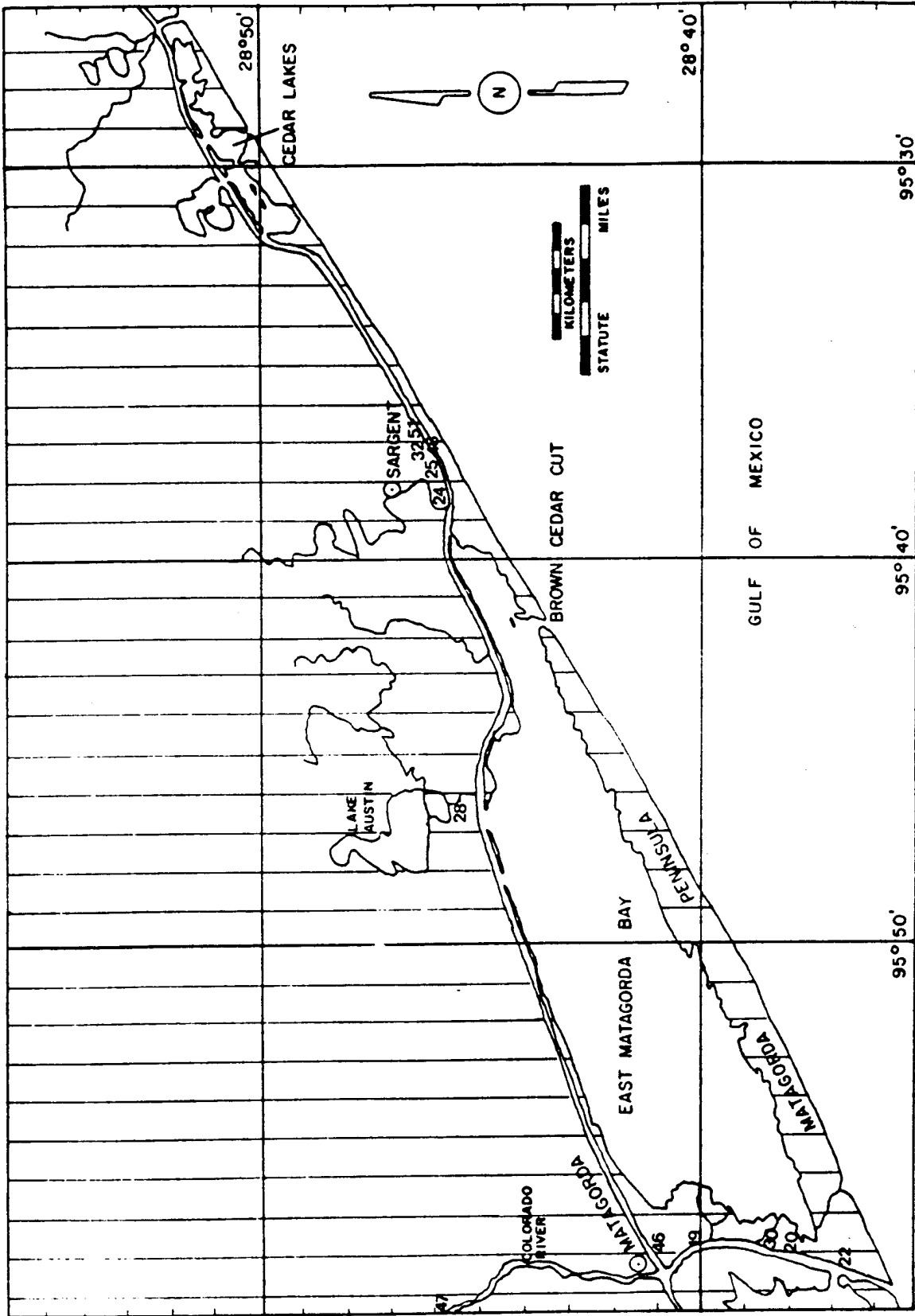
- Figure B.1. Boat-access sites in the Galveston Bay system (May 1974-May 1987).
- Figure B.2. Boat-access sites in the Galveston Bay system (May 1974-May 1987).
- Figure B.3. Boat-access sites in the Galveston Bay system (May 1974-May 1987).
- Figure B.4. Boat-access sites in the Galveston Bay system (May 1974-May 1987).
- Figure B.5. Boat-access sites in the Matagorda Bay system (May 1974-May 1987).
- Figure B.6. Boat-access sites in the Matagorda Bay system (May 1974-May 1987).
- Figure B.7. Boat-access sites in the San Antonio Bay system (May 1974-May 1987).
- Figure B.8. Boat-access sites in the Aransas Bay system (May 1974-May 1987).
- Figure B.9. Boat-access sites in the Corpus Christi Bay system (May 1974-May 1987).
- Figure B.10. Boat-access sites in the upper Laguna Madre system (May 1974-May 1987).
- Figure B.11. Boat-access sites in the lower Laguna Madre system (May 1974-May 1987).
- Figure B.12. Boat-access sites in the lower Laguna Madre system (May 1974-May 1987).

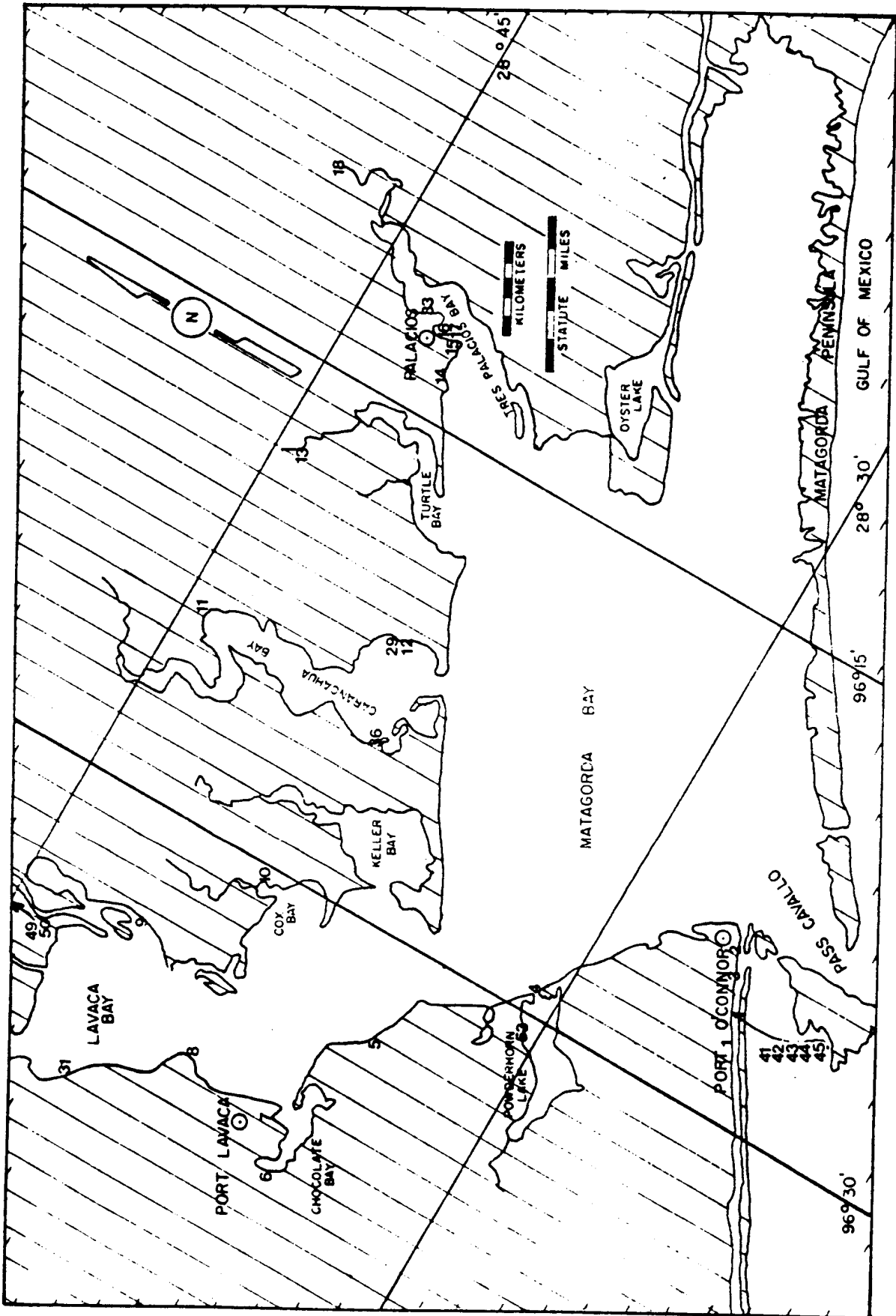


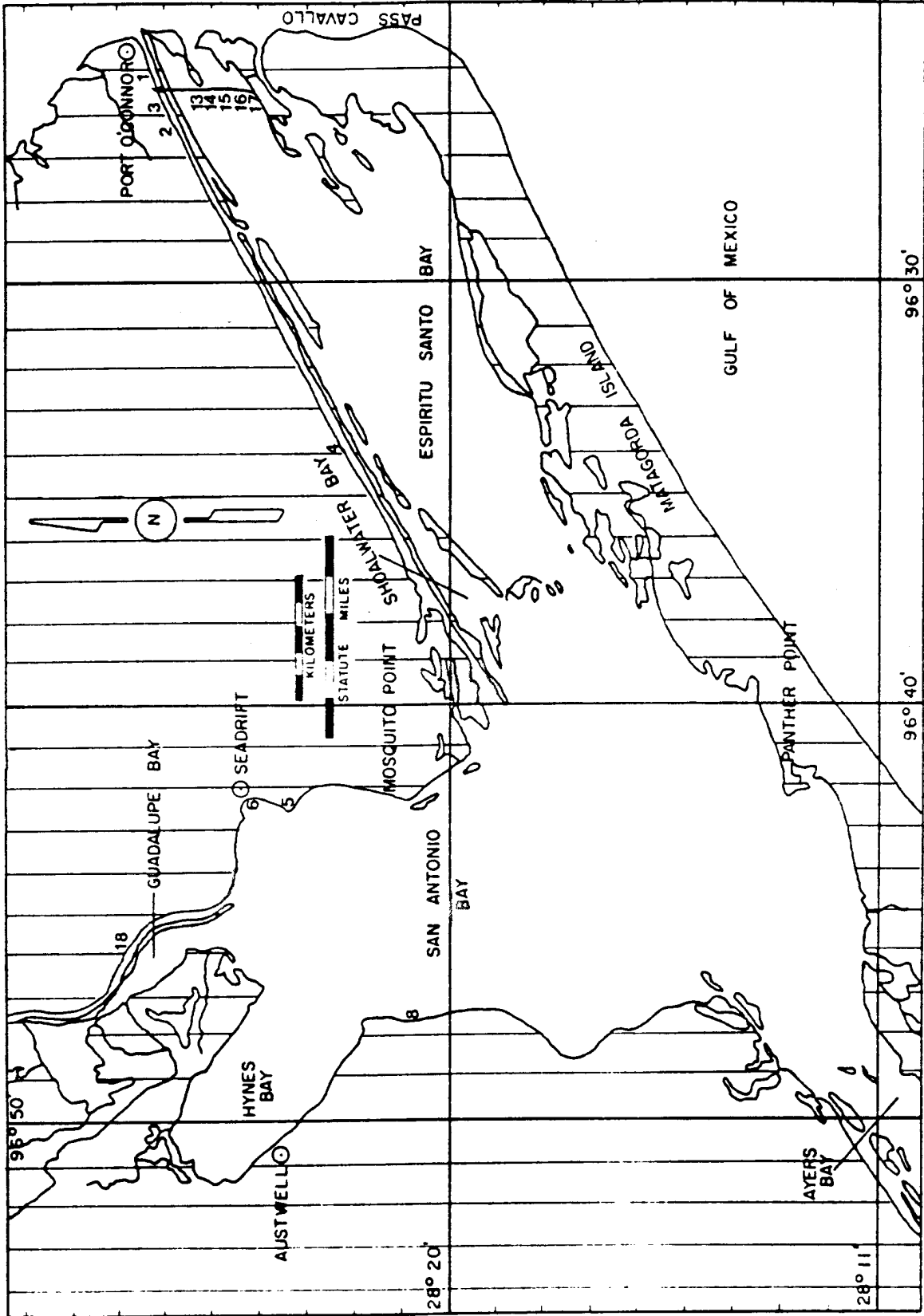


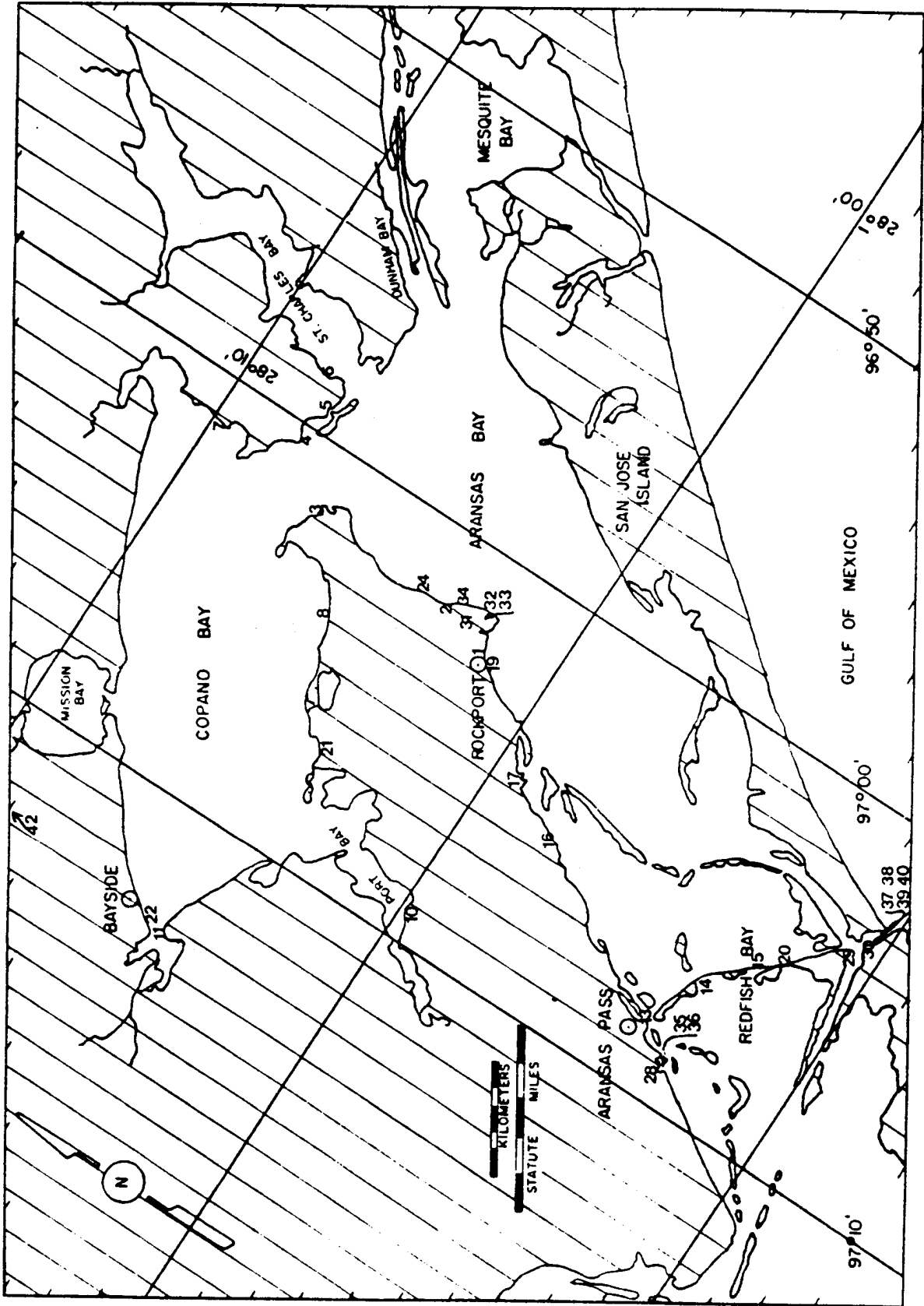


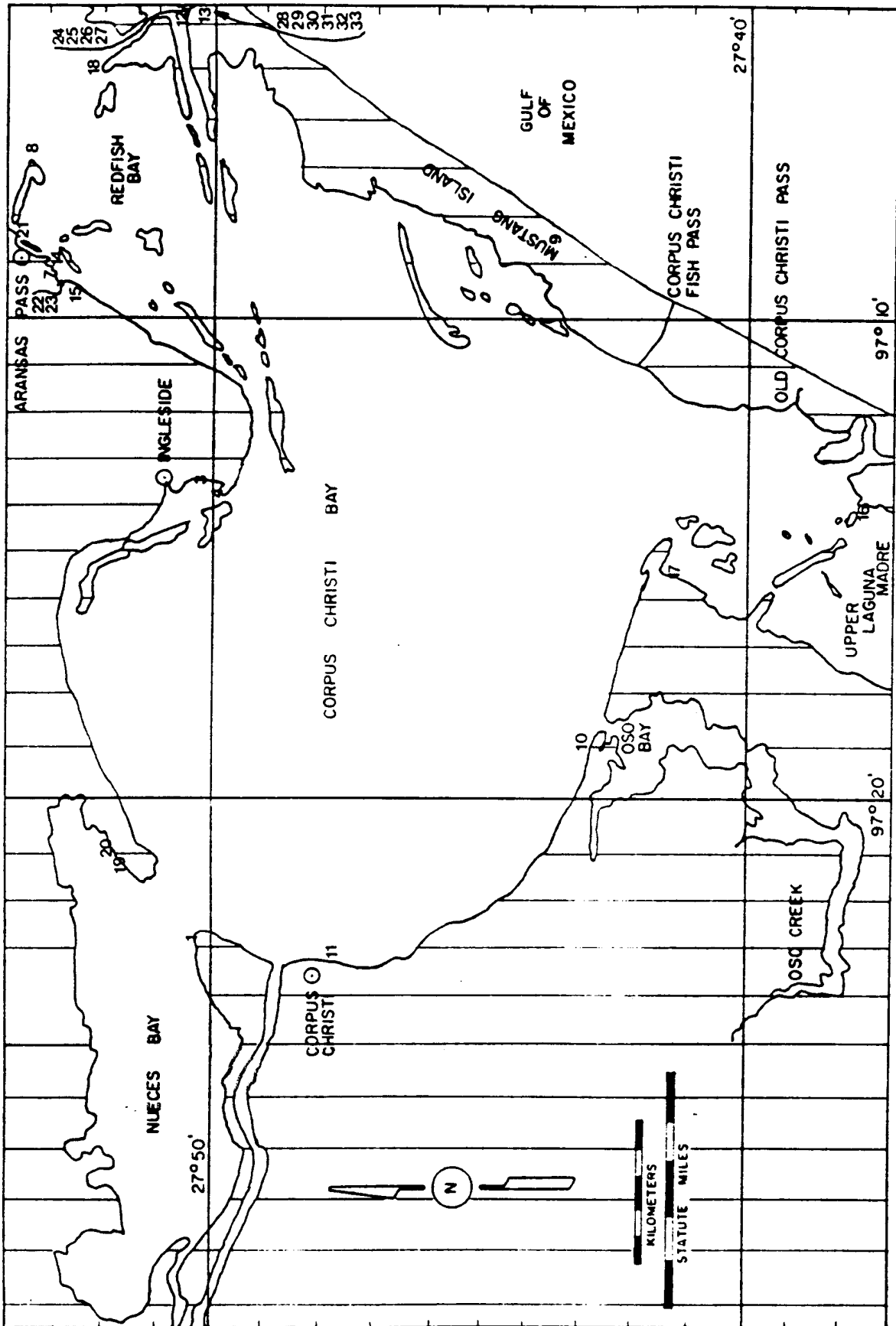


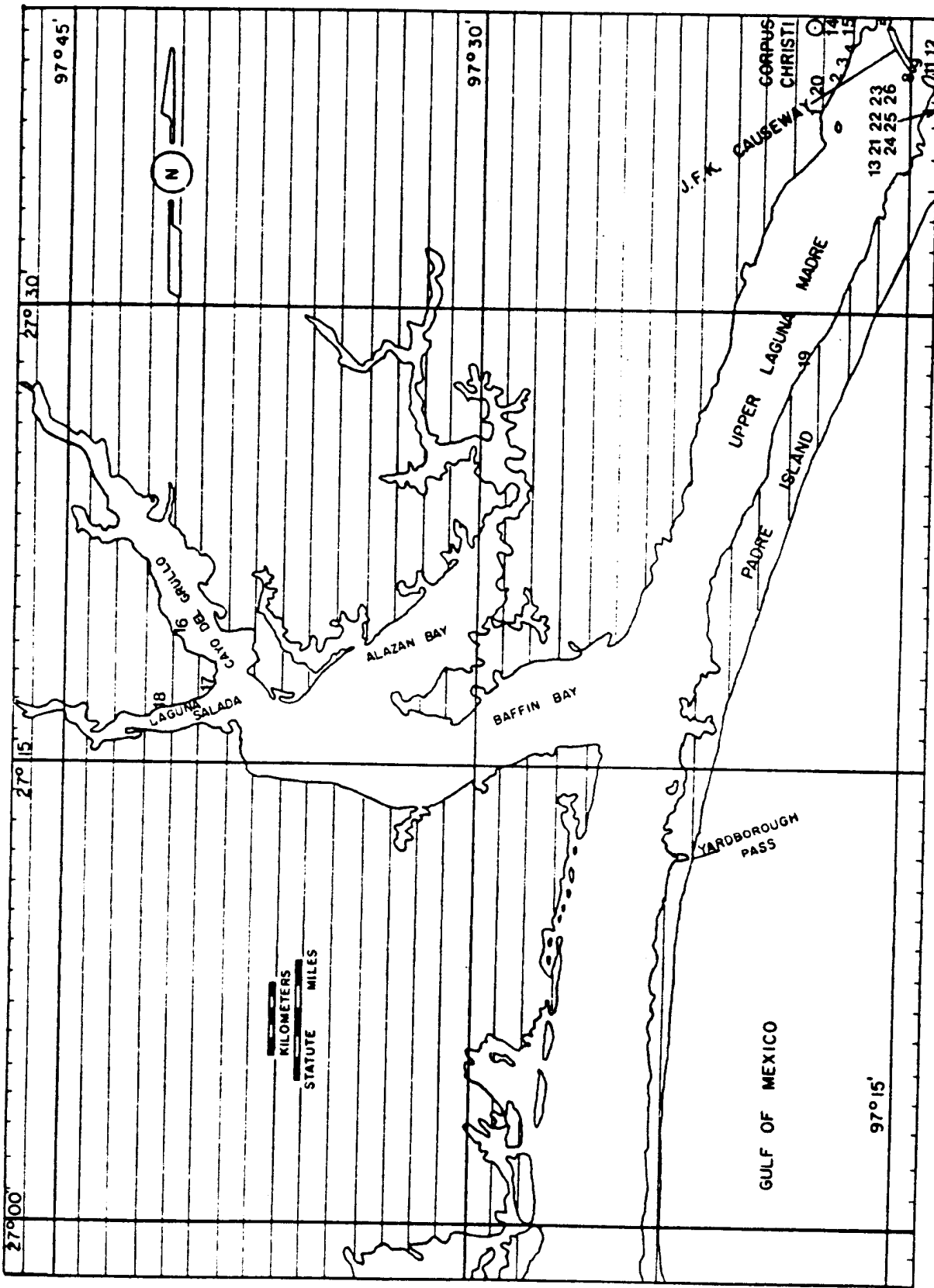


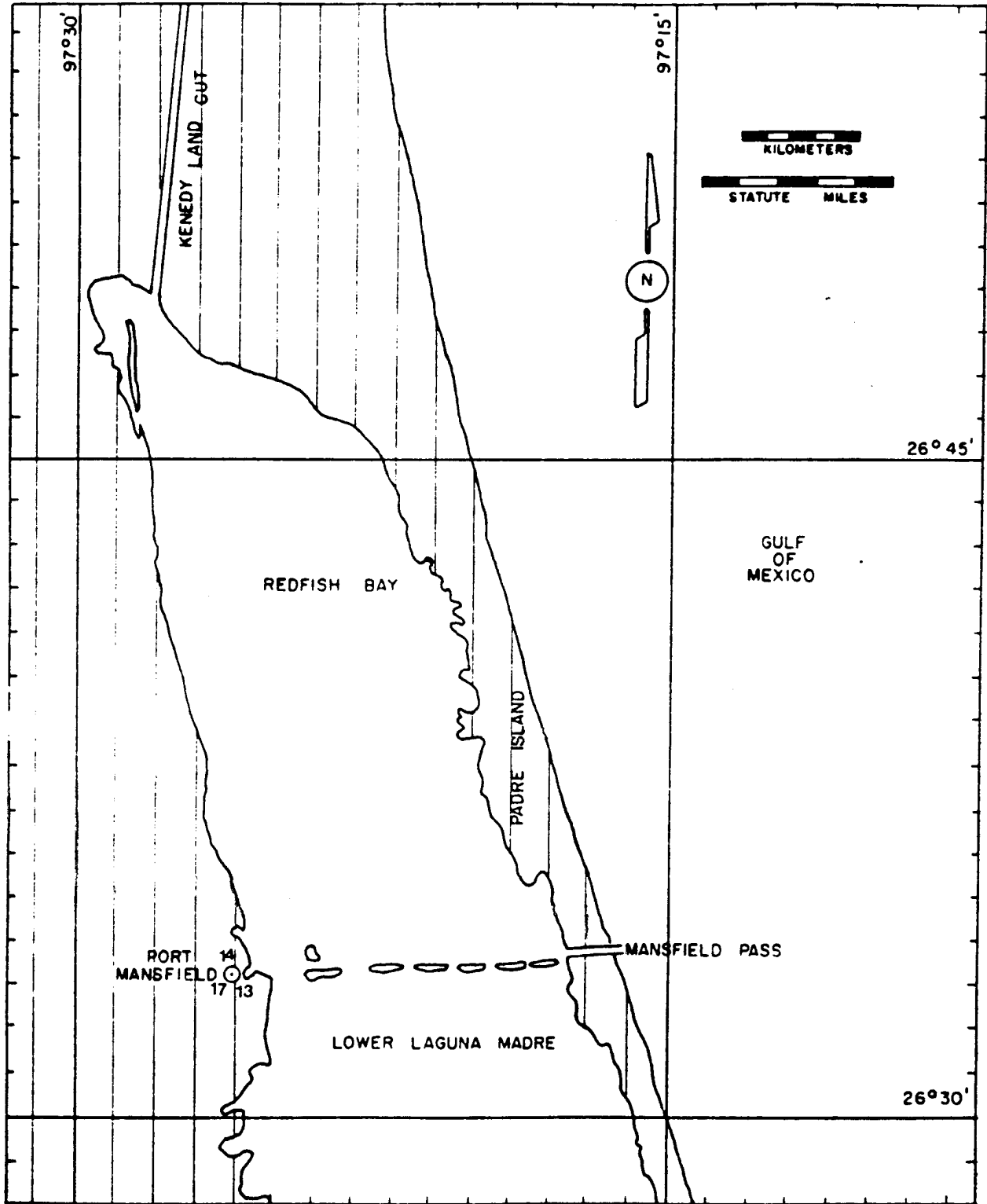












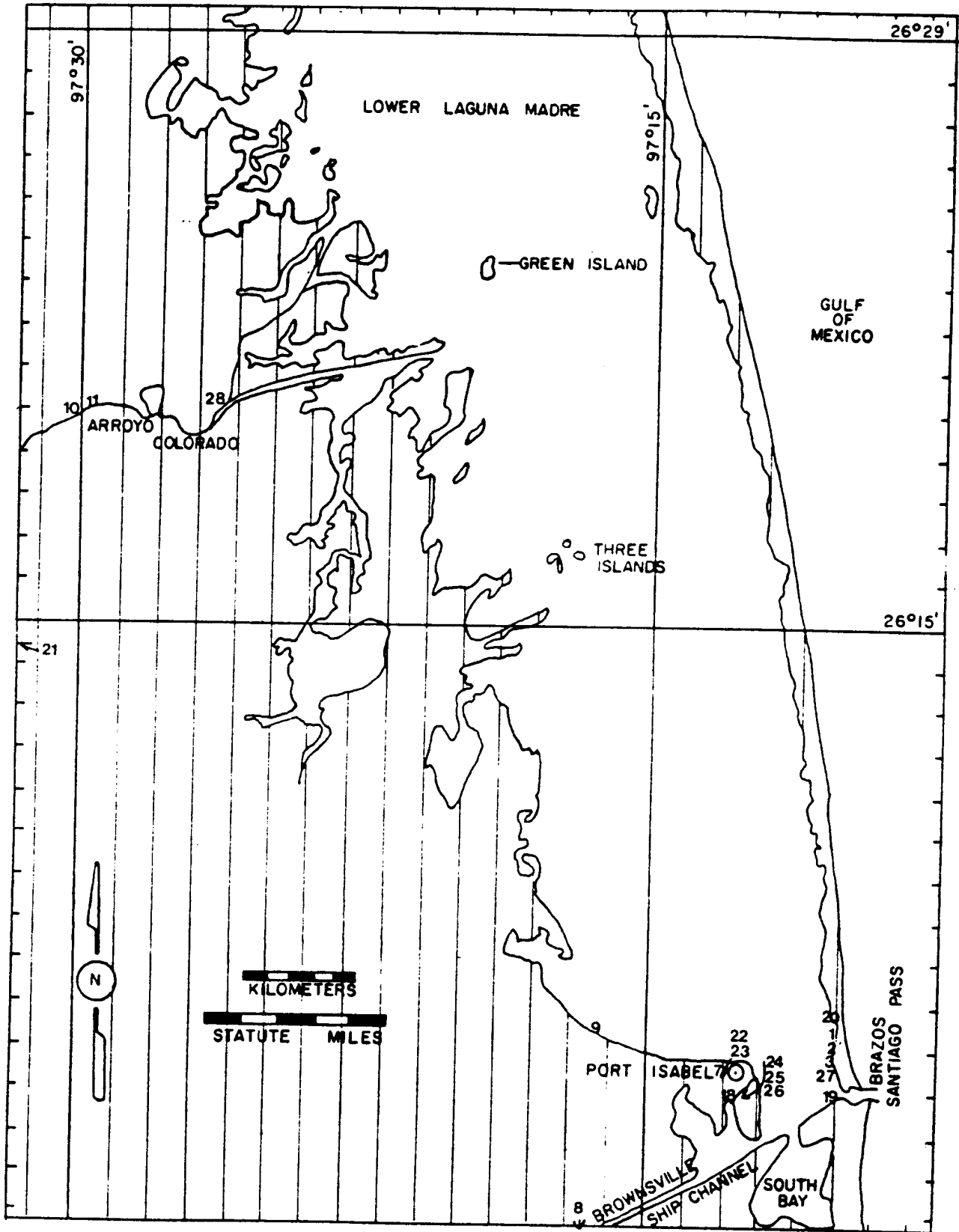


Table B.1. Boat-access sites in Texas bay systems (May 1974-May 1987). Bold type designates sites with wet slips or dry storage.

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
	312	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"	Curli'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)
191	35		29°17'06"	95°07'41"	Hall's Bayou Camp Ramp	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	100	37	(36)	29°15'11"	95°13'58"	(Snug Harbor Marina - Deleted 12/1/78)
	100	38		29°13'43"	95°12'31"	Lute's Marina Boat Lift
	50	39		29°05'24"	95°16'39"	Chocolate Bay State Boat Ramp
	50	40		29°05'37"	95°17'00"	Marlin Marina Ramp
	50	41	(42)	29°04'53"	95°17'13"	State Ramp - Bastrop Bayou - (under bridge)
	110	43	(44)	29°02'52"	95°09'56"	Jack Booth's Ramp Bastrop Marina (includes 5 wet slips)
			(45)			(Shell Ramp (Christmas Bay) - Deleted 12/1/78)
			(46)			Sy's Bait Camp Ramp
	350	47	(50)	29°07'45"	95°04'22"	(Galveston-Freepport Campground Ramp - Deleted 11-21-84)
	350	48		29°07'55"	95°03'49"	(Public Launching - Shoreline - Deleted 9/1/80)
	350	49		29°08'42"	95°02'48"	(San Luis Pass Bait Camp - Deleted 5/15/82)
350	51		29°11'37"	94°58'56"	Bay Harbor Ramps	
350	52		29°12'13"	94°56'57"	Terramar Beach Ramp	
350	53		29°13'04"	94°56'34"	Sea Isle Ramps	
350	54		29°15'38"	94°54'20"	(Jamaica Beach Marina Ramp - Deleted 11/21/85)	
350	55		29°17'03"	94°50'09"	Jamaica Beach Boat Ramp	
350	56		29°17'14"	94°52'19"	Boat Trailers at non-designated ramps	
350	57		29°17'18"	94°52'23"	Pirate's Beach Marina Ramp	
350	61		29°23'04"	94°46'05"	Pirate's Beach Boat Ramp	
350	62		29°25'48"	94°42'37"	Andy's Bait Camp Ramp	
180	64		29°05'10"	95°16'44"	(73rd Street County Park - Deleted 7/28/81)	
150	66		29°28'50"	94°36'16"	61st Street County Park Ramp	
50	67				(Bayou Bay Marina - Deleted 9/1/79)	
150	70				(Newell Marina Ramp - Deleted 5/15/84)	
					(M&M Camp - Deleted 9/1/79)	
					Payco Marina Ramp (includes Docks AA and B; 53 wet slips)	
					Pleasure Island Ramp	
					(Jim Reid's Ramp - Deleted 11/21/85)	
					Shirley's Cafeteria Ramp	
					(Johnson Road - Deleted 3/20/78)	
					Bolivar Bait Camp Ramp (includes 2 boat houses with 70 wet slips)	
					2-J's Harbor (Demi-John)	
					(B&P Camp - Deleted 7/15/81)	
					(Bob's Camp - Deleted 9/6/79)	
					Stingaree Marina Ramp	
					(Chocolate Bayou Marina - Deleted 8/31/75)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	286	72		29°30'51"	94°30'45"	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	(76)	29°45'19"	94°41'29"	Fort Anahuac Park Ramp (Anahuac State Ramp - Deleted 12/1/78)
	180	77		29°40'46"	94°55'34"	Will's
	141	78		29°28'24"	94°57'17"	Dickinson Bayou Public Ramp
	063	79		29°48'17"	94°48'35"	Coffon Lake Ramp
	91	81	(80)	29°20'02"	94°41'52"	(South Galveston Jetty Ramp - Deleted 5/15/85)
	180	83	(82)	29°19'02"	94°46'32"	Waddell's Ramp and Wilson's Ramp (North Galveston Jetty Ramp - Deleted 5/15/84)
	241	84		29°25'08"	94°55'34"	Galveston Yacht Basin Ramp
111	85		29°33'51"	95°04'03"	The Fish Spot Ramp	
142	86		29°25'19"	94°53'29"	Clear Lake Ramp	
144	88	(87)	28°59'53"	95°13'57"	Dollar Bay Ramp (Cotton's Bait Camp Ramp - Deleted 11/21/85)	
150	89	(90)	29°35'41"	94°23'24"	Brazoria County Ramp 57 A (Third Street) 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"	Pye's 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) State Ramp (Freeport - under ICW bridge)	
172	102		28°57'22"	95°17'32"	Ducroz Ramp (Freeport)	
560	103		28°52'30"	95°27'19"	Oyster Creek Ramp (Freeport)	
265	104		29°00'36"	95°19'34"	City Ramp (in Freeport Municipal Park-Freeport)	
570	105		28°57'42"	95°22'13"	City Ramp (by Community center/tennis courts-Freeport)	
266	106		28°57'21"	95°21'41"	Turtle Cove Ramp (Freeport)	
265	107		29°00'07"	95°18'26"		

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification	
		In use	Deleted				
Galveston	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	
	111	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 (Turtle Cove North Shore Boat Shed - Deleted 5/15/84) (Turtle Cove South Shore Boat Shed-Deleted 5/15/84)	
		265	126		29°00'08"	95°18'06"	Hide-A-Way on the Gulf Ramps
		265	127		29°00'28"	95°18'57"	Kirby Marina (72 wet slips)
		50	128		29°05'48"	95°16'59"	B&H Bait Camp Ramp
		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) (Bridge Harbor Canal Front Slips (30 slips; party boats) - Deleted 5/15/84)
		172	133		28°57'46"	95°17'34"	Bridge Harbor Canal Dock A (26 slips; party boats)
		172	134		28°57'46"	95°17'34"	Bridge Harbor Canal Dock B and Dock C (66 wet slips) (Bridge Harbor Canal Dock C (32 slips; party boats) - Deleted 5/15/85)
	172	136		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)	
	350	139		29°17'14"	94°52'19"	Harbor Cove Wet Slips (50 wet slips) - Deleted 5/15/84	
	100	140		29°15'11"	95°13'58"	Payco Marina Docks C and CC (24 wet slips)	
	172	141		28°57'31"	95°18'16"	Lutes Marina Ramp and Boat House (40 wet slips; party boats) Beach, Bait and Tackle Ramp	
	180	142		29°29'47"	94°54'58"	San Leon Marina Boat Sheds (2 boat sheds; party boats)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	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)
			(150)			(Bridge Harbor Pool Side Dock (26 slips across from fuel docks) - Deleted 5/15/86)
	312	151		29°42'37"	95°00'11"	Baitland Ramp
	111	152		29°30'52"	95°06'12"	League City Park Ramp (Hwy 3)
	141	153		29°27'21"	95°02'50"	Dickinson Bayou County Ramp (Hwy 3)
Matagorda	201	155	(154)	29°20'00"	95°01'30"	(Payco Marina Dock D (14 slips) - Deleted 11/21/85)
	570	156		28°57'30"	95°22'38"	Hitchcock Public Boat Ramp
	150	157		29°25'56"	94°42'32"	Freeport Public Boat Ramp (Under S.H. 36)
						Shirley's at Seiver's Cut Ramp
	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	
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	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Matagorda	590	20		28°38'22"	95°58'02"	Al's Ramp (Gilmer's - Deleted 8/17/79; Reopened 5/15/81; Deleted 6/15/82)
	590	22	(21)	28°37'04"	95°58'24"	Rawlings Ramp (UFO Ramp - Deleted 5/15/84)
	160	24		28°46'20"	95°38'04"	Caney Creek Marina (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)
		36	(34)			(Jensen's Point Ramp - Deleted 11/21/86)
		60	(35)	28°39'30"	96°24'54"	Port Alito Boat Shed (107 wet slips in 2 sheds) (East End of Port Lavaca Causeway - Deleted 11/21/86)
		360	41	(40)	28°26'16"	96°24'57"
360		42		28°26'17"	96°25'00"	Not previously assigned McKinney Boat Sheds (12 wet slips)
360		43		28°26'12"	96°25'17"	Power's Boat Sheds (58 wet slips)
360		44		28°26'11"	96°25'18"	Alligator Head East Boat Sheds (19 wet slips)
360		45		28°26'00"	96°25'48"	Alligator Head West Boat Sheds (49 wet slips)
160		46		28°41'17"	95°57'56"	Weathersby's Boat Sheds (40 wet slips; 1 party boat) 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
220		50		28°49'20"	96°34'25"	Frell's Landing
160	51		28°46'10"	95°37'08"	Holiday Harbor Marina	
	52				Boat trailers at non-designated ramps	
271	53		28°30'35"	96°30'08"	S and S Marina	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
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
			(7)			(Austwell - Deleted 8/17/79)
	300	8		28°20'48"	96°47'38"	Hopper's Landing Ramp (includes boats in wet slips)
			(9)			(Pete's Bait Camp - Deleted 8/17/79)
			(10)			(Morgan's Bait Camp - Deleted 8/17/79)
			(11)			(Fishing Center Boat Sheds (2 boat sheds with 26 wet slips; party boats included) - Deleted 5/15/84)
		(12)			Not previously assigned	
Arkansas	170	13		28°26'16"	96°24'57"	McKinney Boat Sheds (12 wet slips)
	170	14		28°26'17"	96°25'00"	Power's Boat Sheds (58 wet slips)
	170	15		28°26'12"	96°25'17"	Alligator Head East Boat Sheds (19 wet slips)
	170	16		28°26'11"	96°25'18"	Alligator Head West Boat Sheds (49 wet slips)
	170	17		28°26'00"	96°25'48"	Weathersby's Boat Sheds (40 wet slips; 1 party boat)
	190	18		28°26'50"	96°45'55"	Louie Walker's Ramp
		52				Boat trailers at non-designated ramps
	227	1		28°01'50"	97°02'19"	Little Bay Ramp
	20	2		28°03'36"	97°02'00"	Fulton Harbor Ramp (includes boats in Fulton Boat House)
	120	3		28°06'49"	97°01'32"	South Copano Causeway Ramp
	20	4		28°08'13"	97°00'22"	Sea Gun Marina Ramp (includes boats in wet slips; party boats)
	310	5		28°07'43"	96°59'07"	Goose Island State Park Ramp
	310	6		28°08'24"	96°58'39"	St. Charles Marina Ramp (includes boats in wet slips)
	120	7		28°09'48"	97°00'35"	Holiday Beach Ramp
	120	8		28°05'07"	97°04'11"	Joe's Ramp (includes boats in wet slips)
			(9)			(Klein's Rattlesnake Point Ramp - Deleted 5/15/84)
	270	10		27°59'35"	97°09'07"	Redfish Camp Ramp
	120	11		28°04'14"	97°13'08"	Glenn's Marina-Bayside Ramp
		(12)			(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)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Aransas	280	16		27°58'04"	97°05'21"	Palm Harbor Ramp (includes boats in wet slips)
	280	17	(18)	27°59'23"	97°04'42"	Cove Harbor Ramp (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	(23)	28°04'34"	97°13'10"	Bayside Public Ramp - (Deleted 12/1/80; Reopened 11/20/82) (Hogan's Ramp - Deleted 5/15/84)
	20	24	(25) (26) (27)	28°04'23"	97°02'07"	Sand Dollar Ramp (Key Allegro Marina - Deleted 5/15/82) (Key Allegro North Ramp - Deleted 12/1/80) (Racquet Club - Deleted 5/15/82)
	284	28		27°53'22"	97°08'53"	Aransas Pass Airport Ramp
	96	29		27°50'19"	97°04'00"	Port Aransas 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)	
Corpus Christi	240	42	(41)	28°11'00"	97°13'00"	(Kellers Marina Boat Ramp - Deleted 11/21/85) Mission River Ramp
		52				Boat trailers at non-designated ramps
	260	1	(2)	27°50'16"	97°22'52"	South Nueces Causeway Public Ramp (North Nueces Causeway - Deleted 10/27/80)
	130	3		27°50'16"	97°13'15"	Ingleside Cove Public Ramp
	130	4	(5)	27°49'52"	97°13'29"	Bahia Mar Ramp (includes 46 wet slips) (Channel View Ramp - Deleted 5/15/86)

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification	
		In use	Deleted				
Corpus Christi	284	7	(6)	27°53'22"	97°08'53"	(Warrens - Deleted 5/15/79)	
	284	8		27°53'18"	97°06'42"	Aransas Airport Ramp	
	130	9		27°44'14"	97°08'13"	Fin & Feather Marina Ramp (includes 34 wet slips)	
	130	10		27°42'39"	97°18'35"	Wilsons Cut Ramp	
	130	11		27°47'24"	97°23'22"	Oso Bridge Public Ramp	
	96	12		27°50'19"	97°04'00"	L-Head Public Ramp	
	96	13		27°50'18"	97°03'44"	Port Aransas Public Ramp	
	284	14		27°53'19"	97°08'44"	Woody's Ramp	
	284	15		27°51'26"	97°10'07"	Causeway Ramp (includes 6 wet slips)	
	370	16		27°38'02"	97°14'09"	Sun Oil Co. Ramp	
	370	17		27°41'10"	97°15'31"	Billing's Ramp	
	285	18		27°52'55"	97°05'57"	Naval Ramp (includes boats in boat houses and in wet slips)	
	260	19		27°51'14"	97°21'30"	Redfish Bay Marina Ramp (includes rent boat and boats in wet slips)	
	260	20		27°51'31"	97°21'04"	Gunderland Marine Ramp	
	280	21		27°53'58"	97°08'14"	Portland Shell Bank Ramp	
	284	22		27°53'22"	97°08'48"	South Conn Brown Harbor Public Ramp	
	284	23		27°53'22"	97°08'59"	Harbor East Docks (1 dock and 2 bulkheads with 74 wet slips) with Hampton's Landing (1 bulkhead with 13 wet slips)	
	96	24		27°50'21"	97°03'53"	Harbor West Docks (bulkhead with 65 wet slips)	
	96	25		27°50'22"	97°03'50"	West City Docks (2 docks and bulkhead with 79 wet slips; party boats)	
	96	26		27°50'15"	97°03'59"	East City Docks (2 docks and bulkhead with 70 wet slips; party boats)	
	96	27		27°50'17"	97°03'54"	Deep Sea Headquarters Dock (10 party boat wet slips)	
	96	28		27°50'18"	97°03'42"	Dolphin Docks (5 party boat wet slips)	
	96	29		27°50'18"	97°03'40"	Woody's West Docks (3 docks with 47 wet slips; party boats)	
	96	30		27°50'19"	97°03'37"	Woody's East Docks (3 docks with 57 wet slips; party boats)	
	96	31		27°50'21"	97°03'37"	Sportsmen Center South Dock (1 dock with 40 wet slips; party boats)	
	96	32		27°50'22"	97°03'33"	Sportsmen Center North Dock (1 dock with 26 wet slips; party boats)	
	93	33		27°50'15"	97°03'11"	Fisherman's Wharf Dock (4 party boat wet slips)	
		52				U.T. Boat Basin Dock (56 wet slips)	
						Boat trailers at non-designated ramps	
	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	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Upper Laguna Madre	370	8	(6)	27°38'03"	97°14'21"	(Whitt's - Deleted 5/15/82)
	370	9	(7)	27°38'06"	97°14'21"	(Fisherman's Folly - Deleted 5/15/81) Water Works Ramp & Rent Boats B.G.'s Ramp
	370	11	(10)	27°38'04"	97°14'16"	(Rainbow Ramp - Deleted 11/21/85) 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"	Kaufer 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
	370	21	(20)	27°36'51"	97°18'04"	(Whiteleys Basin Ramp - Deleted 5/15/85)
	370	22		27°36'08"	97°14'28"	Padre Isle Investment Ramp II (White Cap and Caravel)
	370	23		27°36'42"	97°14'22"	Padre Isle Investment Ramp III (End of Cobo de Caba)
	370	24		27°35'57"	97°13'50"	Padre Isle Investment Ramp IV (Gypsy and Bounty Avenue)
	370	25		27°35'43"	97°13'51"	Padre Isle Investment Ramp V (Fortuna Bay and Monte Pelle)
	370	26		27°35'21"	97°13'35"	Padre Isle Investment Ramp VI (Encatada and Cruiser)
	370	52		27°35'00"	97°14'29"	Padre Isle Investment Ramp VII (Cartagena Street) Boat trailers at non-designated ramps
	Lower Laguna Madre	230	1		26°06'09"	97°10'08"
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)
230		7	(4)			(Jetties - Deleted 5/15/80)
294		8	(5)			(Marchan's - Deleted 9/1/78)
230		9	(6)	26°05'03"	97°12'07"	(Port Isabel - Deleted 9/1/76) White Sands Ramp (includes boats in wet slips)
262		10		26°00'07"	97°17'55"	San Martin Ramp
262		11		26°06'12"	97°17'25"	Laguna Vista Ramp (includes boats in wet slips)
262				26°19'35"	97°27'15"	Arroyo Colorado Ramp
262			(12)	26°20'10"	97°26'35"	Sanchez Ramp (Al's Place - Deleted 3/27/82)

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Lower Laguna Madre	230	13		26°33'10"	97°25'40"	Willacy Navigation District Ramp
	282	14		26°33'20"	97°25'41"	Port Mansfield State Ramp (Redfish Motel Ramp (includes boats in wet slips - Deleted 5/15/84)) (South Padre Marina - Deleted 3/27/82)
	230	17		26°33'05"	97°25'40"	Port Mansfield Boat Basin (includes boats in wet slips; party boats)
	230	18		26°04'42"	97°12'12"	Port Isabel Channel East Side (includes 45 wet slips in boat shed)
	230	19	(15)	26°04'36"	97°09'56"	Sea Ranch Motel (includes boat shed and wet slips)
	230	20	(16)	26°05'55"	97°10'04"	Palm Bay Pier Ramp (includes 15 wet slips)
	262	21		26°14'15"	97°35'00"	Rio Hondo Public Ramp
	230	22		26°04'30"	97°12'55"	Port Isabel City Ramp
	230	23		26°04'25"	07°12'54"	Travelers Trailer Park Ramp
	230	24		26°03'52"	97°12'35"	Southpoint Marina Ramp
	230	25		26°03'55"	97°12'33"	Southpoint Wet Slips (30 wet slips)
	230	26		26°04'32"	97°12'55"	Anchor Harbor Ramp (includes 22 wet slips)
		52				Boat trailers at non-designated ramps
	230	27		26°04'45"	97°10'08"	South Padre Island State Ramp
	262	28		26°19'55"	97°26'29"	Arroyo City Resort (2 ramps and 60 wet slips)

Table B.2. Headboat sites in Texas bay systems (May 1978-May 1987).

Bay system	Passenger capacity	Site number		Minor bay	Headboat identification
		In use	Deleted		
Galveston	67		(81)		Kemah Clipper (Deleted 3-24-84)
	70	83		180	Sundowner (Added 6-12-86)
	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)		Whooping Crane (Deleted 9-25-86)
			(82)		Mary Lou (Deleted 9-28-83)
	100	89		130	Capt. Clark
	89	91		130	Star Trek
	30	94		20	Pisces (Added 5-15-84)
	45	97		20	Lucky Day (Added 10-8-84)
Lower Laguna Madre	75	81		230	Laguna Queen
	30	83		230	Albatross
	48	84		230	Danny B
	74		(88)		Majestic (Deleted 5-15-84)

Table B.3. Major area and minor bay codes for Texas marine waters (May 1974-May 1987).

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 surfline 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 surfline)	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 surfline)	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	
Alazan Bay	7
Baffin Bay	10
Cayo Del Grulla Bay	40
Laguna Salada	80
Upper Laguna Madre	211
Corpus Christi Pass (area between junction with Upper Laguna Madre and Gulf of Mexico surfline)	370
	690
Lower Laguna Madre System	
Brownsville Ship Channel (area from Marker 30 to Port Brownsville Turning Basin)	8
	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 (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}) 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	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									
		Galveston	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
	1981-82	25	47	55	34	25	36				57
	1982-83	47	20	42	39	55	59				30
	1983-84	44	51	59	43	34	60				40
Low Use	1979-80	1	100	25	0	61	10				43
	1980-81	22	89	100	1	34	39				48
	1981-82	22	71	76	73	5	69				5
	1982-83	84	5	17	5	38	63				14
	1983-84	51	59	67	3	7	0				11
Southern flounder High Use	1979-80	6	100	19	100	100	17				42
	1980-81	19	38	70	49	2	75				57
	1981-82	41	15	46	37	10	50				42
	1982-83	57	35	72	57	41	73				45
	1983-84	51	74	68	68	34	55				47
Low Use	1979-80	1	67	90	100	59	60				73
	1980-81	93	100	100	97	4	32				73
	1981-82	62	53	13	40	57	84				50
	1982-83	83	44	4	36	55	40				51
	1983-84	10	20	75	8	33	0				41
Spotted seatrout High Use	1979-80	78	59	28	78	65	61				38
	1980-81	5	42	59	41	22	71				51
	1981-82	21	47	45	34	45	56				59
	1982-83	49	32	51	31	37	58				45
	1983-84	44	44	44	59	49	59				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		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 ^a	Seasons ^b	Years used for % ^c
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

^a2=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.

^bAll means both the high and low use seasons were pooled.

^cAll 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 (1974-87). ND = no data.

Year Season	Bay System										
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide	
						Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
1974-76											
High use	7 (865)	5 (99)	13 (1259)	7 (238)	5 (121)	9 (459)	5 (181)	5 (181)	51 (3222)		
Low use	11 (312)	8 (130)	19 (471)	12 (199)	11 (202)	12 (346)	10 (253)	10 (253)	84 (1913)		
Annual	18 (1177)	14 (229)	32 (1730)	19 (437)	16 (323)	21 (805)	15 (434)	15 (434)	135 (5135)		
1976-77											
High use	15 (541)	17 (264)	8 (344)	8 (306)	15 (492)	8 (290)	17 (732)	17 (732)	88 (2969)		
Low use	29 (235)	17 (109)	13 (184)	14 (168)	16 (305)	15 (147)	15 (373)	15 (373)	119 (1521)		
Annual	44 (776)	34 (373)	21 (528)	22 (474)	31 (797)	23 (437)	32 (1105)	32 (1105)	207 (4490)		
1977-78											
High use	34 (1285)	16 (471)	18 (826)	17 (481)	16 (429)	16 (299)	16 (706)	16 (706)	133 (4497)		
Low use	31 (486)	15 (231)	14 (435)	16 (178)	15 (223)	15 (323)	16 (601)	16 (601)	122 (2477)		
Annual	65 (1771)	31 (702)	32 (1261)	33 (659)	31 (652)	31 (622)	32 (1307)	32 (1307)	255 (6974)		
1978-79											
High use	32 (1817)	17 (596)	18 (962)	16 (380)	18 (500)	17 (596)	17 (700)	17 (700)	135 (5551)		
Low use	32 (532)	15 (106)	15 (448)	16 (164)	14 (183)	16 (338)	15 (311)	15 (311)	123 (2082)		
Annual	64 (2349)	32 (702)	33 (1410)	32 (544)	32 (683)	33 (934)	32 (1011)	32 (1011)	258 (7633)		
1979-80											
High use	27 (913)	18 (433)	21 (1010)	17 (308)	18 (475)	15 (474)	17 (666)	17 (666)	133 (4279)		
Low use	15 (173)	12 (286)	21 (650)	14 (107)	15 (545)	16 (463)	15 (485)	15 (485)	108 (2709)		
Annual	42 (1086)	30 (719)	42 (1660)	31 (415)	33 (1020)	31 (937)	32 (1151)	32 (1151)	241 (6988)		

Table D.1. (Cont'd.)

Year Season	Bay System									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
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)		
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.1. (Cont'd.)

Year Season	Bay System															
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
1986-87																
High use	31	(1427)	31	(1355)	26	(936)	32	(903)	31	(1063)	31	(2015)	31	(2093)	213	(9792)
Low use	12	(462)	12	(222)	12	(229)	12	(332)	12	(309)	12	(772)	12	(386)	84	(2712)
Annual	43	(1889)	43	(1577)	38	(1165)	44	(1235)	43	(1372)	43	(2787)	43	(2479)	297	(12503)

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 (1974-1987). ND = no data.

Year Season	Bay System										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower			
						Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
1974-76											
High use	8 (68)	4 (25)	18 (169)	8 (42)	4 (25)	12 (62)	4 (54)	4 (54)	58 (445)		
Low use	8 (112)	7 (10)	15 (145)	8 (91)	8 (96)	8 (51)	8 (41)	8 (41)	62 (546)		
Annual	16 (180)	11 (35)	33 (314)	16 (133)	12 (121)	20 (113)	12 (95)	12 (95)	120 (991)		
1976-77											
High use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Low use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Annual	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
Low use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Annual	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
Low use	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Annual	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)	3 (16)	4 (54)	4 (54)	34 (276)		
Low use	7 (31)	8 (9)	16 (126)	8 (28)	8 (26)	7 (71)	7 (25)	7 (25)	61 (316)		
Annual	13 (63)	12 (15)	23 (254)	11 (36)	15 (58)	10 (87)	11 (79)	11 (79)	95 (592)		
1980-81											
High use	24 (476)	25 (95)	28 (428)	26 (206)	25 (444)	26 (202)	25 (255)	25 (255)	179 (2106)		
Low use	16 (196)	13 (46)	15 (33)	14 (64)	13 (72)	14 (103)	14 (101)	14 (101)	99 (615)		
Annual	40 (672)	38 (141)	43 (461)	40 (270)	38 (516)	40 (305)	39 (356)	39 (356)	278 (2721)		

Table D.2. (Cont'd.)

Year Season	Bay System										
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide	
						Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
1981-82											
High use	61 (761)	61 (398)	57 (856)	61 (491)	60 (1120)	61 (556)	61 (556)	55 (809)	416 (4991)		
Low use	24 (96)	24 (61)	24 (152)	24 (223)	24 (152)	24 (139)	24 (139)	24 (398)	168 (1221)		
Annual	85 (857)	85 (459)	81 (1008)	85 (714)	84 (1272)	85 (695)	85 (695)	79 (1207)	584 (6212)		
1982-83											
High use	66 (811)	61 (468)	55 (719)	61 (439)	61 (738)	61 (810)	61 (810)	55 (1221)	420 (5206)		
Low use	24 (183)	24 (91)	24 (341)	24 (155)	24 (150)	24 (183)	24 (183)	24 (684)	168 (1787)		
Annual	90 (994)	85 (559)	79 (1060)	85 (594)	85 (888)	85 (993)	85 (993)	79 (1905)	588 (6993)		
1983-84											
High use	63 (720)	63 (949)	45 (877)	64 (845)	66 (994)	66 (1390)	66 (1390)	66 (1326)	433 (7101)		
Low use	24 (130)	23 (100)	24 (74)	24 (114)	24 (104)	24 (54)	24 (54)	24 (180)	167 (756)		
Annual	87 (850)	86 (1049)	69 (951)	88 (959)	90 (1098)	90 (1444)	90 (1444)	90 (1506)	600 (7857)		
1984-85											
High use	65 (965)	65 (659)	46 (416)	65 (586)	66 (724)	66 (372)	66 (372)	66 (981)	439 (4703)		
Low use	24 (109)	24 (163)	24 (67)	24 (135)	24 (117)	24 (72)	24 (72)	24 (223)	168 (886)		
Annual	89 (1074)	89 (822)	70 (483)	89 (721)	90 (841)	90 (444)	90 (444)	90 (1204)	607 (5584)		
1985-86											
High use	66 (692)	66 (755)	46 (624)	66 (926)	66 (808)	66 (746)	66 (746)	66 (830)	442 (5381)		
Low use	24 (113)	24 (162)	24 (54)	24 (311)	24 (239)	24 (187)	24 (187)	24 (317)	168 (1383)		
Annual	90 (805)	90 (917)	70 (678)	90 (1237)	90 (1047)	90 (933)	90 (933)	90 (1147)	610 (6764)		
1986-87											
High use	66 (667)	66 (955)	46 (747)	65 (799)	66 (776)	66 (860)	66 (860)	66 (887)	441 (5689)		
Low use	24 (175)	24 (286)	24 (89)	24 (302)	24 (208)	24 (227)	24 (227)	24 (501)	168 (1788)		
Annual	90 (842)	90 (1241)	70 (836)	89 (1101)	90 (984)	90 (1087)	90 (1087)	90 (1388)	609 (7477)		

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 1987.

Bay system	High-use season		Low-use Season		Annual ^b
	Weekend	Weekday ^a	Weekend	Weekday ^a	
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
1986-87	1039.6 \pm 182.0	458.9 \pm 70.4	433.0 \pm 140.8	264.5 \pm 113.2	2195.9 \pm 266.3
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
1986-87	309.8 \pm 47.2	181.2 \pm 26.6	164.6 \pm 78.9	159.3 \pm 80.7	814.9 \pm 125.1
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
1986-87	107.3 \pm 27.6	83.0 \pm 22.5	39.9 \pm 11.3	19.4 \pm 8.1	249.7 \pm 38.2

Table D.3. (Cont'd.)

Bay system Year	High-use season			Low-use season			Annual ^b
	Weekend		Weekday ^a	Weekend		Weekday ^a	
	Weekend	Weekday	Weekend	Weekday	Weekend		
Arkansas							
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		
1986-87	183.2 ± 33.9	215.8 ± 33.7	162.3 ± 42.1	160.0 ± 52.6	721.3 ± 82.6		
Corpus Christi							
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		
1986-87	214.7 ± 41.3	163.6 ± 23.2	157.1 ± 66.2	119.8 ± 32.4	655.2 ± 87.6		
Upper Laguna Madre							
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		
1986-87	336.9 ± 60.7	203.3 ± 35.9	232.3 ± 62.0	129.3 ± 40.0	901.9 ± 102.1		

Table D.3. (Cont'd.)

Bay system Year	High-use season		Low-use season		Annual ^b
	Weekend	Weekday ^a	Weekend	Weekday ^a	
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
1986-87	334.4 ± 29.4	188.4 ± 22.2	145.9 ± 25.5	211.5 ± 50.6	880.2 ± 67.6
Coastwide ^b					
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
1986-87	2525.7 ± 209.0	1494.2 ± 98.1	1335.2 ± 191.9	1063.8 ± 165.5	6419.0 ± 342.8

^aFor 1976-1977 to 1978-1979 weekday pressure was estimated from weekend pressure and no standard errors are available.

^bDue to rounding of numbers, these totals may not exactly equal individual totals.

Table D.4. Annual estimated landings of fishes (No. x 1000) \pm 1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1974-1987).

Species Year	Bay system							Upper		Lower		Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre			
Atlantic croaker												
1974-76	699.1 \pm 308.9	19.7 \pm 9.5	6.0 \pm 2.1	3.8 \pm 2.2	12.5 \pm 5.5	152.4 \pm 86.5	11.9 \pm 5.8	905.4 \pm 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 \pm 89.9	8.3 \pm 3.1	2.0 \pm 1.0	1.5 \pm 0.8	11.8 \pm 4.5	106.8 \pm 57.6	2.3 \pm 0.6	383.2 \pm 106.9				
1980-81	372.2 \pm 197.9	48.3 \pm 24.2	1.6 \pm 0.7	1.5 \pm 0.5	149.1 \pm 118.3	30.6 \pm 8.1	7.4 \pm 3.0	610.7 \pm 232.0				
1981-82	192.8 \pm 48.1	6.6 \pm 2.2	0.6 \pm 0.3	1.3 \pm 0.5	41.9 \pm 22.1	29.3 \pm 8.7	3.0 \pm 0.7	275.6 \pm 53.8				
1982-83	179.5 \pm 32.4	7.8 \pm 2.2	1.2 \pm 0.4	6.9 \pm 3.9	20.2 \pm 5.6	25.6 \pm 13.5	8.0 \pm 1.6	249.2 \pm 35.8				
1983-84	159.4 \pm 36.1	11.3 \pm 3.8	1.3 \pm 0.5	37.4 \pm 13.6	38.3 \pm 13.2	26.7 \pm 5.2	4.6 \pm 0.8	278.9 \pm 41.3				
1984-85	213.8 \pm 42.0	7.0 \pm 2.0	0.3 \pm 0.2	4.7 \pm 1.8	8.1 \pm 2.7	2.6 \pm 0.9	4.1 \pm 1.5	240.7 \pm 42.2				
1985-86	214.5 \pm 42.0	12.1 \pm 4.1	0.2 \pm 0.1	12.9 \pm 4.5	10.9 \pm 4.0	17.0 \pm 3.7	6.4 \pm 1.3	274.4 \pm 42.8				
1986-87	330.7 \pm 104.3	10.3 \pm 4.6	0.1 \pm <.1	5.5 \pm 2.5	10.9 \pm 3.1	14.4 \pm 3.9	6.6 \pm 1.7	378.5 \pm 104.6				
Black drum												
1974-76	35.2 \pm 11.4	20.5 \pm 12.2	2.9 \pm 0.9	18.2 \pm 14.7	13.9 \pm 5.4	12.5 \pm 6.2	25.1 \pm 13.5	128.3 \pm 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 \pm 10.1	13.4 \pm 6.3	2.0 \pm 0.7	9.8 \pm 5.8	3.6 \pm 1.4	7.1 \pm 5.7	4.3 \pm 1.8	77.4 \pm 14.6				
1980-81	87.1 \pm 31.7	44.7 \pm 15.5	2.5 \pm 0.8	1.7 \pm 0.8	8.3 \pm 2.7	7.0 \pm 2.5	6.4 \pm 2.6	157.7 \pm 35.6				
1981-82	59.9 \pm 20.7	24.8 \pm 4.9	9.0 \pm 4.4	15.6 \pm 5.0	8.6 \pm 3.0	9.2 \pm 3.7	5.5 \pm 1.7	132.6 \pm 22.9				
1982-83	105.8 \pm 37.5	24.6 \pm 5.7	4.2 \pm 1.3	8.2 \pm 3.0	11.5 \pm 2.9	9.0 \pm 2.1	7.9 \pm 1.7	171.2 \pm 38.3				
1983-84	26.7 \pm 5.8	22.2 \pm 4.9	3.5 \pm 1.2	11.2 \pm 3.1	8.0 \pm 2.1	3.0 \pm 1.0	6.2 \pm 2.1	80.7 \pm 8.9				
1984-85	24.3 \pm 4.9	13.6 \pm 3.5	1.5 \pm 0.6	5.4 \pm 4.9	3.8 \pm 1.5	0.7 \pm 0.4	5.1 \pm 2.5	55.5 \pm 8.4				
1985-86	27.1 \pm 7.0	8.4 \pm 3.5	1.0 \pm 0.6	2.6 \pm 1.2	13.1 \pm 6.6	8.0 \pm 2.9	4.7 \pm 1.5	60.0 \pm 10.8				
1986-87	26.2 \pm 7.9	13.0 \pm 3.4	1.6 \pm 0.7	5.2 \pm 2.1	1.6 \pm 0.4	4.5 \pm 1.8	5.8 \pm 2.4	57.9 \pm 9.4				
Gafftopsail catfish												
1974-76	42.8 \pm 30.1	17.6 \pm 10.3	4.2 \pm 1.5	12.7 \pm 8.4	3.3 \pm 3.0	0.0	0.0	80.6 \pm 21.7				
1976-77	17.6	43.0	6.2	3.8	6.9	0.0	<.1	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 \pm 2.0	1.4 \pm 0.7	1.1 \pm 0.4	0.1 \pm 0.1	4.1 \pm 2.7	0.2 \pm 0.2	0.0	10.2 \pm 3.4				
1980-81	14.5 \pm 8.6	1.5 \pm 0.8	0.6 \pm 0.3	0.6 \pm 0.3	1.9 \pm 0.9	<.1 \pm <.1	0.1 \pm 0.1	19.1 \pm 8.7				
1981-82	4.2 \pm 2.1	7.0 \pm 3.0	0.9 \pm 0.5	3.3 \pm 1.8	16.5 \pm 14.1	0.3 \pm 0.2	<.1 \pm <.1	32.2 \pm 14.7				
1982-83	5.2 \pm 2.4	3.8 \pm 1.2	3.1 \pm 0.9	1.8 \pm 0.7	6.9 \pm 2.2	<.1 \pm <.1	0.1 \pm 0.1	21.0 \pm 3.7				
1983-84	3.3 \pm 1.6	4.9 \pm 2.2	1.9 \pm 0.7	2.3 \pm 0.7	6.5 \pm 3.0	0.2 \pm 0.1	0.1 \pm 0.1	19.1 \pm 4.1				
1984-85	2.3 \pm 0.9	4.3 \pm 1.2	2.2 \pm 0.9	1.8 \pm 0.6	0.8 \pm 0.3	0.2 \pm 0.2	0.1 \pm 0.1	11.6 \pm 1.9				
1985-86	8.4 \pm 4.2	3.4 \pm 0.8	0.6 \pm 0.2	3.3 \pm 1.0	1.2 \pm 0.5	0.1 \pm 0.1	0.0	17.0 \pm 4.4				
1986-87	7.0 \pm 3.5	5.6 \pm 1.7	1.8 \pm 0.8	2.3 \pm 1.0	1.5 \pm 0.4	0.0	0.1 \pm 0.1	18.3 \pm 4.1				

Table D.4. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre			
			Antonio	Aransas			Madre	Madre				
Red drum												
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				
1986-87	47.9 ± 14.9	43.1 ± 7.3	16.4 ± 3.5	51.2 ± 12.4	31.3 ± 5.3	20.2 ± 3.1	56.8 ± 6.3	266.8 ± 22.7				
Sand seatrout												
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				
1986-87	290.0 ± 104.3	6.0 ± 2.5	0.2 ± 0.1	20.9 ± 7.3	32.0 ± 10.0	4.2 ± 2.2	15.3 ± 4.4	368.6 ± 69.4				
Sheepshead												
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 ± 17.1				
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 ± 24.3				
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				
1986-87	15.7 ± 3.7	12.6 ± 5.8	1.5 ± 0.4	51.4 ± 24.4	6.0 ± 3.2	0.2 ± 0.1	1.6 ± 0.6	89.1 ± 25.6				

Table D.4. (Cont'd.)

Species Year	Bay system							Upper			Lower		
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Coastwide ^a	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide ^a	
Southern flounder													
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	2.5	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					
1986-87	75.2 ± 12.0	17.0 ± 3.9	7.1 ± 2.8	8.9 ± 2.3	14.2 ± 2.6	24.0 ± 4.1	31.6 ± 3.9	178.1 ± 14.5					
Spotted seatrout													
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					
1986-87	245.6 ± 43.2	105.3 ± 25.2	44.1 ± 7.3	78.8 ± 17.3	109.6 ± 24.0	119.4 ± 17.4	181.0 ± 18.6	883.9 ± 63.9					
Other species													
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	73.7	18.6	8.3	10.8	11.3	11.0	5.3	141.8					
1986-87	90.5	17.5	4.7	33.2	10.4	11.2	30.3	197.8					

Table D.4. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a		
All species combined ^a										
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		
1986-87	1128.9 ± 185.9	230.3 ± 32.5	77.7 ± 12.9	257.3 ± 62.6	217.5 ± 31.9	198.2 ± 24.6	329.3 ± 28.9	2439.2 ± 205.3		

^aDue 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 (1974-1986).

Species Year	Bay system							Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
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	3.5 ± 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	11.5 ± 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 ± <.1	1.3 ± 0.7	2.1 ± 1.0	9.3 ± 3.1	2.4 ± 0.7	119.4 ± 29.2
1986	217.3 ± 91.2	6.6 ± 3.9	0.1 ± <.1	1.3 ± 1.1	5.3 ± 2.3	8.5 ± 3.4	4.8 ± 1.6	243.9 ± 91.4
Black drum								
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	9.6 ± 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	11.5 ± 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	6.5 ± 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 ± <.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 ± <.1	3.4 ± 1.6	0.4 ± 0.1	9.2 ± 2.2
1986	17.4 ± 7.6	5.9 ± 2.6	0.8 ± 0.6	0.5 ± 0.2	0.2 ± 0.1	1.0 ± 0.4	0.2 ± 0.1	26.0 ± 8.1
Gulf topsail catfish								
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 ± <.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 ± <.1	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	<.1 ± <.1	0.4 ± 0.2	0.7 ± 0.3	<.1 ± <.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 ± <.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 ± <.1	0.1 ± 0.1	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 ± <.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
1986	5.4 ± 3.4	2.5 ± 1.3	0.3 ± 0.2	0.8 ± 0.4	0.6 ± 0.2	0.0	0.0	9.6 ± 3.7

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide ^a		
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre						
Red drum													
1974-75	21.6 ±	14.2 ±	20.2 ±	10.4 ±	7.2 ±	9.6 ±	13.0 ±	6.8	96.2 ±	11.1			
1976	9.5 ±	6.3 ±	17.7 ±	9.5 ±	4.2 ±	2.5 ±	6.4 ±	2.3	56.1 ±	8.6			
1977	29.3 ±	4.5 ±	4.0 ±	9.3 ±	1.9 ±	1.4 ±	5.6 ±	1.8	56.1 ±	8.8			
1978	12.2 ±	10.5 ±	2.2 ±	1.1 ±	2.2 ±	0.6 ±	2.9 ±	1.1	32.6 ±	5.7			
1979	8.9 ±	12.4 ±	5.4 ±	2.7 ±	2.0 ±	0.6 ±	1.4 ±	0.3	33.4 ±	7.7			
1980	6.1 ±	18.7 ±	3.5 ±	3.9 ±	3.4 ±	14.5 ±	4.6 ±	1.1	54.7 ±	9.1			
1981	11.6 ±	5.9 ±	2.8 ±	2.6 ±	2.8 ±	5.1 ±	1.7 ±	0.3	32.6 ±	7.7			
1982	15.2 ±	6.2 ±	6.8 ±	5.1 ±	5.4 ±	5.9 ±	6.8 ±	0.9	51.4 ±	7.0			
1983	6.8 ±	19.9 ±	12.0 ±	19.3 ±	8.8 ±	7.5 ±	11.1 ±	1.6	85.4 ±	8.6			
1984	6.2 ±	1.0 ±	0.9 ±	7.3 ±	4.1 ±	0.7 ±	8.9 ±	2.2	29.1 ±	4.2			
1985	9.7 ±	8.4 ±	1.9 ±	14.4 ±	8.6 ±	12.2 ±	12.5 ±	1.9	67.7 ±	8.8			
1986	16.8 ±	24.0 ±	9.8 ±	11.4 ±	10.8 ±	6.9 ±	24.8 ±	3.8	104.5 ±	9.9			
Sand seatrout													
1974-75	393.7 ±	29.0 ±	1.0 ±	5.9 ±	41.5 ±	3.4 ±	17.1 ±	11.0	491.6 ±	262.5			
1976	249.1 ±	12.5 ±	0.1 ±	24.7 ±	19.8 ±	9.6 ±	6.3 ±	2.9	322.2 ±	149.8			
1977	129.7 ±	11.6 ±	0.9 ±	5.5 ±	19.4 ±	1.9 ±	21.3 ±	6.5	190.2 ±	39.6			
1978	229.8 ±	10.8 ±	<1 ±	1.3 ±	13.9 ±	0.9 ±	2.3 ±	0.9	259.0 ±	131.5			
1979	119.2 ±	8.6 ±	2.0 ±	8.4 ±	13.4 ±	1.4 ±	0.9 ±	0.3	145.9 ±	33.7			
1980	74.1 ±	2.5 ±	0.3 ±	8.4 ±	22.4 ±	2.4 ±	4.4 ±	2.1	114.6 ±	31.3			
1981	30.5 ±	19.2 ±	1.6 ±	1.2 ±	25.6 ±	4.7 ±	10.6 ±	4.6	93.5 ±	22.3			
1982	158.1 ±	9.8 ±	3.6 ±	5.8 ±	37.1 ±	3.8 ±	9.6 ±	3.1	227.9 ±	42.8			
1983	51.9 ±	23.1 ±	2.3 ±	7.8 ±	45.8 ±	8.7 ±	6.3 ±	2.6	145.9 ±	28.5			
1984	156.6 ±	11.4 ±	0.9 ±	15.8 ±	12.5 ±	5.2 ±	5.5 ±	1.9	207.9 ±	51.0			
1985	93.0 ±	12.3 ±	1.6 ±	2.1 ±	3.3 ±	3.0 ±	6.2 ±	1.9	121.4 ±	35.4			
1986	175.8 ±	5.0 ±	0.1 ±	2.7 ±	6.7 ±	1.9 ±	11.5 ±	4.3	203.8 ±	43.8			
Sheepshead													
1974-75	0.2 ±	8.2 ±	1.2 ±	1.6 ±	2.0 ±	1.1 ±	0.6 ±	0.4	14.9 ±	2.4			
1976	8.8 ±	8.2 ±	1.0 ±	4.2 ±	1.9 ±	1.2 ±	2.8 ±	1.2	28.1 ±	8.1			
1977	73.2 ±	4.9 ±	1.6 ±	2.4 ±	1.4 ±	0.8 ±	1.1 ±	0.6	88.8 ±	45.2			
1978	13.6 ±	9.7 ±	0.3 ±	0.7 ±	2.3 ±	0.1 ±	1.1 ±	0.9	27.9 ±	6.0			
1979	14.1 ±	3.0 ±	1.2 ±	2.4 ±	1.7 ±	0.3 ±	1.4 ±	0.4	24.2 ±	7.1			
1980	7.9 ±	5.2 ±	0.5 ±	2.1 ±	0.5 ±	3.7 ±	2.4 ±	1.7	22.3 ±	5.9			
1981	8.8 ±	6.4 ±	1.5 ±	3.7 ±	1.3 ±	0.4 ±	0.4 ±	0.1	22.5 ±	5.2			
1982	18.3 ±	2.6 ±	0.5 ±	1.1 ±	2.2 ±	1.9 ±	1.1 ±	0.6	27.9 ±	5.8			
1983	11.4 ±	3.1 ±	1.7 ±	1.7 ±	1.1 ±	1.2 ±	1.0 ±	0.4	21.2 ±	4.3			
1984	13.5 ±	5.3 ±	0.6 ±	0.4 ±	0.1 ±	<1 ±	0.9 ±	0.4	20.9 ±	4.8			
1985	5.8 ±	0.8 ±	0.3 ±	0.6 ±	0.4 ±	0.1 ±	0.4 ±	0.2	8.3 ±	1.8			
1986	7.5 ±	1.0 ±	0.4 ±	0.1 ±	0.4 ±	<1 ±	0.6 ±	0.4	10.1 ±	2.6			

Table D.5. (Cont'd.)

Species Year	Bay system										Lower Laguna Madre		Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre						
Southern flounder													
1974-75	18.8 ±	14.4 ±	6.1 ±	16.5 ±	10.7	0.6 ±	0.3	22.6 ±	21.1	2.6 ±	1.1	81.6 ±	21.3
1976	15.0 ±	3.0 ±	4.3 ±	3.5 ±	1.6	2.9 ±	1.6	1.2 ±	0.4	1.9 ±	0.5	31.8 ±	5.9
1977	17.7 ±	6.9 ±	3.9 ±	5.6 ±	2.3	1.7 ±	0.8	1.6 ±	0.7	3.8 ±	1.5	41.1 ±	6.9
1978	16.8 ±	8.9 ±	2.1 ±	2.0 ±	1.1	7.6 ±	5.3	0.5 ±	0.2	4.2 ±	1.2	42.1 ±	7.9
1979	15.0 ±	9.1 ±	1.3 ±	1.4 ±	0.8	4.7 ±	3.7	2.3 ±	1.3	4.5 ±	1.3	38.4 ±	7.4
1980	9.4 ±	5.2 ±	5.2 ±	3.5 ±	2.1	1.3 ±	0.8	5.7 ±	2.0	3.8 ±	1.2	34.1 ±	6.6
1981	9.7 ±	1.9 ±	1.3 ±	2.9 ±	1.7	2.0 ±	0.5	3.8 ±	1.2	3.0 ±	0.5	24.5 ±	4.3
1982	49.7 ±	2.6 ±	3.6 ±	7.7 ±	6.5	2.2 ±	0.7	10.1 ±	3.0	9.7 ±	1.9	85.6 ±	21.3
1983	34.3 ±	14.8 ±	2.2 ±	13.5 ±	10.0	6.7 ±	4.2	4.2 ±	0.8	4.9 ±	1.7	80.5 ±	18.6
1984	26.0 ±	3.3 ±	1.9 ±	3.5 ±	1.7	3.3 ±	1.3	1.2 ±	0.6	0.9 ±	0.3	40.0 ±	6.5
1985	41.7 ±	6.3 ±	1.3 ±	6.7 ±	2.6	2.7 ±	1.1	6.6 ±	1.3	12.2 ±	3.0	77.6 ±	13.9
1986	36.8 ±	9.0 ±	4.8 ±	1.8 ±	0.4	3.3 ±	0.9	9.1 ±	2.8	11.6 ±	1.9	76.4 ±	9.3
Spotted seatrout													
1974-75	330.3 ±	152.1 ±	123.8 ±	146.2 ±	86.1	27.5 ±	15.3	36.9 ±	9.9	77.6 ±	29.1	894.4 ±	156.8
1976	38.4 ±	11.3 ±	52.4 ±	83.6 ±	24.1	33.7 ±	14.0	189.5 ±	154.8	78.0 ±	16.0	486.8 ±	161.4
1977	96.4 ±	62.7 ±	28.0 ±	55.9 ±	22.4	38.1 ±	13.3	31.5 ±	7.6	85.9 ±	19.1	398.5 ±	50.0
1978	107.6 ±	40.7 ±	12.6 ±	41.1 ±	16.7	29.0 ±	9.6	18.5 ±	3.9	67.7 ±	21.5	317.1 ±	46.3
1979	70.4 ±	17.7 ±	31.1 ±	59.0 ±	23.8	20.9 ±	5.8	39.8 ±	14.7	46.9 ±	7.4	285.7 ±	36.3
1980	33.8 ±	30.1 ±	28.8 ±	28.1 ±	8.4	18.5 ±	6.0	119.1 ±	19.1	56.7 ±	11.7	315.1 ±	31.6
1981	67.6 ±	62.7 ±	23.2 ±	39.0 ±	10.0	44.2 ±	6.9	80.6 ±	22.9	65.0 ±	11.0	382.4 ±	39.5
1982	115.8 ±	23.7 ±	29.3 ±	27.8 ±	8.2	36.6 ±	10.7	95.1 ±	15.2	88.6 ±	10.9	417.0 ±	57.6
1983	85.6 ±	53.5 ±	32.4 ±	69.3 ±	21.9	66.0 ±	24.6	109.8 ±	23.8	60.7 ±	8.3	477.3 ±	52.2
1984	29.9 ±	5.8 ±	2.4 ±	2.0 ±	0.8	3.4 ±	1.7	1.0 ±	0.3	20.3 ±	5.8	64.8 ±	10.4
1985	38.1 ±	14.1 ±	7.6 ±	18.7 ±	4.9	10.7 ±	3.4	25.2 ±	5.5	32.7 ±	3.7	147.1 ±	14.6
1986	79.4 ±	22.9 ±	14.3 ±	10.8 ±	3.2	20.6 ±	7.5	31.6 ±	7.1	50.5 ±	5.4	230.1 ±	24.8
Other Species													
1974-75	11.1 ±	0.5 ±	3.6 ±	2.4 ±	0.9	4.5 ±	1.4	1.4 ±	0.7	1.8 ±	0.8	25.3 ±	4.0
1976	13.4 ±	2.6 ±	2.7 ±	2.9 ±	1.3	3.0 ±	1.4	2.2 ±	1.1	2.2 ±	0.9	28.8 ±	5.0
1977	9.1 ±	9.4 ±	1.8 ±	1.5 ±	0.5	1.2 ±	0.4	3.0 ±	2.3	1.5 ±	0.5	27.5 ±	6.3
1978	24.0 ±	7.8 ±	1.2 ±	0.9 ±	0.5	1.0 ±	0.5	0.2 ±	0.1	1.0 ±	0.4	36.2 ±	7.0
1979	45.7 ±	4.0 ±	0.8 ±	1.0 ±	0.6	3.6 ±	1.6	0.7 ±	0.5	0.8 ±	0.3	56.5 ±	14.5
1980	39.6 ±	4.3 ±	1.1 ±	1.0 ±	0.7	7.3 ±	3.7	11.0 ±	9.3	0.2 ±	0.1	64.5 ±	14.8
1981	20.1 ±	4.0 ±	1.1 ±	1.1 ±	0.4	5.4 ±	0.7	3.3 ±	1.2	2.3 ±	0.7	37.3 ±	7.4
1982	36.4 ±	5.0 ±	2.6 ±	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	
1986	44.3	5.2	1.1	2.0		2.9		1.2		9.8		66.7	

Table D.5. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a		
All species combined ^a										
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 ± 98.5		
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 ± 80.2		
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		
1986	600.7 ± 151.2	82.1 ± 15.0	31.7 ± 10.4	31.5 ± 5.6	50.9 ± 12.5	60.3 ± 11.1	114.0 ± 11.8	971.0 ± 153.8		

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.6. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekdays by species and bay system (1974-1986).

Species Year	Bay system							Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
1974-75	351.1 \pm 286.4	3.0 \pm 3.0	3.1 \pm 1.8	0.8 \pm 0.8	1.9 \pm 1.9	38.5 \pm 15.9	2.1 \pm 2.1	400.5 \pm 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 \pm 2.5	0.0	0.1 \pm 0.1	0.0	2.2 \pm 2.2	100.1 \pm 57.5	0.0	106.3 \pm 57.6
1980	262.8 \pm 195.0	34.1 \pm 23.4	1.1 \pm 0.6	0.8 \pm 0.4	135.5 \pm 118.1	14.1 \pm 6.3	2.7 \pm 2.7	451.1 \pm 229.3
1981	95.2 \pm 23.4	2.3 \pm 0.9	0.3 \pm 0.1	1.3 \pm 0.5	14.7 \pm 5.9	6.0 \pm 2.6	0.8 \pm 0.8	120.6 \pm 24.3
1982	94.9 \pm 24.6	2.9 \pm 1.0	0.3 \pm 0.1	1.1 \pm 0.4	11.4 \pm 4.8	3.2 \pm 1.1	2.2 \pm 0.7	116.0 \pm 25.1
1983	82.3 \pm 26.7	5.0 \pm 2.3	0.6 \pm 0.2	14.1 \pm 4.2	20.8 \pm 7.3	5.5 \pm 1.3	2.1 \pm 0.5	130.3 \pm 28.2
1984	84.2 \pm 23.4	3.4 \pm 1.4	<0.1 \pm <0.1	2.7 \pm 1.5	6.3 \pm 2.6	0.7 \pm 0.5	0.8 \pm 0.3	98.2 \pm 23.6
1985	111.0 \pm 30.3	5.1 \pm 2.1	0.1 \pm 0.1	9.3 \pm 4.2	8.7 \pm 3.8	7.0 \pm 1.9	3.7 \pm 1.0	145.0 \pm 31.0
1986	112.9 \pm 51.6	3.4 \pm 2.5	0.0	2.0 \pm 1.2	5.4 \pm 2.1	3.3 \pm 1.2	1.6 \pm 0.5	128.6 \pm 51.7
Black drum								
1974-75	0.0	11.2 \pm 11.2	0.5 \pm 0.4	15.6 \pm 14.7	5.6 \pm 3.5	3.7 \pm 2.7	13.6 \pm 12.2	50.2 \pm 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 \pm 0.6	4.1 \pm 4.1	0.1 \pm 0.1	0.0	0.0	0.0	1.4 \pm 1.4	6.2 \pm 4.3
1980	24.2 \pm 9.5	7.9 \pm 3.4	0.4 \pm 0.1	1.5 \pm 0.8	3.3 \pm 1.8	3.2 \pm 2.2	1.6 \pm 1.2	42.1 \pm 10.6
1981	32.3 \pm 9.9	8.5 \pm 2.7	4.1 \pm 3.6	6.1 \pm 2.6	4.8 \pm 2.6	0.2 \pm 0.1	0.4 \pm 0.1	56.4 \pm 11.5
1982	28.9 \pm 9.9	9.9 \pm 3.2	0.3 \pm 0.1	3.8 \pm 2.2	2.5 \pm 1.4	1.4 \pm 0.4	2.0 \pm 0.8	48.7 \pm 10.8
1983	13.7 \pm 3.2	8.4 \pm 3.3	0.6 \pm 0.2	1.9 \pm 0.8	2.1 \pm 0.7	0.6 \pm 0.2	0.8 \pm 0.4	28.2 \pm 4.7
1984	9.2 \pm 2.9	5.9 \pm 2.3	0.1 \pm 0.1	0.3 \pm 0.2	0.8 \pm 0.3	0.1 \pm <0.1	0.8 \pm 0.3	17.1 \pm 3.7
1985	12.6 \pm 6.1	4.5 \pm 3.2	0.3 \pm 0.2	2.0 \pm 1.2	4.5 \pm 3.0	1.6 \pm 0.9	0.9 \pm 0.5	26.4 \pm 7.7
1986	6.1 \pm 2.0	5.2 \pm 1.7	0.1 \pm 0.1	0.3 \pm 0.3	0.8 \pm 0.3	0.6 \pm 0.4	1.6 \pm 1.2	14.7 \pm 2.9
Gafftopsail catfish								
1974-75	26.6 \pm 26.6	0.0	0.8 \pm 0.6	6.3 \pm 6.3	0.0	0.0	0.0	33.7 \pm 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 \pm 0.7	0.0	0.2 \pm 0.2	0.0	0.0	0.0	0.0	0.9 \pm 0.8
1981	2.0 \pm 1.0	2.3 \pm 1.5	0.5 \pm 0.2	0.4 \pm 0.3	1.1 \pm 0.7	0.1 \pm 0.1	<0.1 \pm <0.1	6.4 \pm 2.0
1982	4.1 \pm 2.4	1.0 \pm 0.6	0.6 \pm 0.4	0.9 \pm 0.3	1.6 \pm 0.6	<0.1 \pm <0.1	0.1 \pm 0.1	8.2 \pm 2.6
1983	1.3 \pm 1.0	0.7 \pm 0.4	0.6 \pm 0.4	0.8 \pm 0.5	3.8 \pm 2.7	<0.1 \pm <0.1	0.1 \pm 0.1	7.4 \pm 2.9
1984	0.9 \pm 0.6	1.9 \pm 0.9	1.0 \pm 0.6	0.7 \pm 0.3	0.2 \pm 0.1	0.2 \pm 0.2	<0.1 \pm <0.1	5.0 \pm 1.3
1985	1.7 \pm 1.4	1.6 \pm 0.5	0.2 \pm 0.2	1.6 \pm 0.6	0.6 \pm 0.4	0.0	0.0	5.7 \pm 1.6
1986	0.3 \pm 0.2	2.2 \pm 1.0	0.7 \pm 0.4	0.5 \pm 0.3	0.5 \pm 0.3	6.0	0.1 \pm 0.1	4.3 \pm 1.1

Table D.6. (Cont'd.)

Species Year	Bay system							Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum								
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	116.5 ± 52.4
1976	35.5	2.7	2.4	5.6	2.3	1.7	6.8	57.0
1977	14.8	6.3	1.3	0.7	2.7	1.7	3.5	31.0
1979	28.3 ± 19.0	0.0	3.3	0.0	0.0	1.9 ± 1.9	20.3 ± 11.9	55.6 ± 22.8
1980	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	92.6 ± 10.6
1981	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	46.7 ± 6.9
1982	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	48.3 ± 5.6
1983	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	76.5 ± 8.4
1984	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	26.9 ± 3.6
1985	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	54.7 ± 5.7
1986	11.0 ± 3.7	11.7 ± 1.9	5.1 ± 1.2	13.0 ± 3.4	9.0 ± 2.5	5.4 ± 1.5	15.1 ± 2.3	70.3 ± 6.7
Sand seatrout								
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	176.4 ± 456.7
1976	176.0	15.7	1.2	7.5	26.3	2.6	13.1	258.1
1977	311.8	14.7	<.1	1.8	18.9	1.2	28.9	351.4
1979	168.9 ± 166.9	0.0	1.9	0.0	65.4 ± 52.7	19.9 ± 15.4	9.9 ± 3.1	266.1 ± 175.9
1980	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	704.0 ± 388.8
1981	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	180.4 ± 41.1
1982	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	189.1 ± 38.8
1983	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	167.2 ± 59.9
1984	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	161.2 ± 64.5
1985	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	70.3 ± 14.2
1986	93.4 ± 50.7	0.9 ± 0.3	0.1 ± 0.1	12.4 ± 6.1	25.3 ± 9.4	2.0 ± 1.7	2.5 ± 1.0	136.5 ± 51.9
Sheepshead								
1974-75	9.2 ± 12.0	4.5 ± 12.1	0.7 ± 1.4	0.0	0.7 ± 2.7	3.3 ± 1.6	0.0	18.4 ± 40.1
1976	99.6	11.4	2.2	3.3	1.9	1.1	4.8	120.8
1977	18.5	13.2	0.4	1.0	3.1	0.1	1.5	37.9
1979	19.5 ± 19.5	4.1 ± 4.1	2.3 ± 1.9	0.0	0.0	0.0	15.5 ± 10.9	41.5 ± 22.8
1980	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	45.6 ± 12.5
1981	25.6 ± 9.5	7.2 ± 2.9	1.2 ± 0.3	7.3 ± 3.1	3.9 ± 1.1	0.7 ± 0.3	0.3 ± 0.1	46.2 ± 10.5
1982	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	39.6 ± 10.3
1983	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	25.0 ± 4.7
1984	13.5 ± 6.6	6.3 ± 4.5	0.3 ± 0.1	0.4 ± 0.2	1.6 ± 1.0	<.1 ± <.1	1.2 ± 0.4	23.4 ± 8.1
1985	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	11.4 ± 2.9
1986	4.4 ± 2.0	3.2 ± 1.3	0.5 ± 0.2	0.4 ± 0.2	0.1 ± <.1	<.1 ± <.1	0.6 ± 0.3	9.2 ± 2.4

Table D.6. (Cont'd.)

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
Southern flounder											
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	40.1 ± 14.1			
1976	14.8	3.9	4.3	3.5	3.3	1.2	2.9	33.9			
1977	17.5	6.8	3.9	5.5	1.7	1.6	3.8	40.8			
1978	16.6	8.8	2.1	2.0	7.5	0.5	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	255.4 ± 209.9			
1980	40.7 ± 13.7	8.4 ± 6.7	2.2 ± 1.1	3.7 ± 3.0	59.8 ± 35.9	1.9 ± 0.7	2.9 ± 2.1	119.7 ± 39.2			
1981	14.2 ± 4.0	11.2 ± 8.3	1.5 ± 0.7	5.0 ± 2.1	18.4 ± 10.0	3.8 ± 1.7	4.1 ± 1.7	58.3 ± 14.0			
1982	37.4 ± 10.2	4.9 ± 2.1	1.4 ± 0.3	5.8 ± 1.9	3.2 ± 0.9	3.8 ± 1.1	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	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	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	50.5 ± 6.7			
1986	23.0 ± 7.6	5.2 ± 1.9	1.9 ± 0.7	4.9 ± 2.1	5.7 ± 1.3	8.8 ± 2.6	10.1 ± 2.5	59.5 ± 9.0			
Spotted seatrout											
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	985.5 ± 268.2			
1976	88.5	13.0	44.8	192.8	93.6	161.9	172.3	766.9			
1977	222.3	53.6	23.9	128.9	87.9	26.9	119.8	663.3			
1978	248.1	34.8	10.8	94.8	56.9	15.8	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	23.3 ± 21.0	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	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	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	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	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	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	182.8 ± 22.3			
1986	93.6 ± 23.8	42.3 ± 9.6	15.5 ± 3.3	18.7 ± 4.8	35.9 ± 9.0	23.6 ± 5.7	53.9 ± 8.3	283.6 ± 29.6			
Other species											
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	50.6 ± 7.9			
1976	19.2	1.4	1.3	1.4	4.6	1.0	5.3	34.2			
1977	13.1	4.5	0.9	0.7	1.7	1.4	2.2	24.5			
1978	34.4	3.7	0.6	0.4	1.4	0.1	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	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	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	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	59.1 ± 10.3			
1983	20.8	3.3	2.7	18.4	9.5	1.7	2.4	58.7			
1984	12.1	3.0	0.9	3.8	4.4	0.1	2.2	26.5			
1985	3.8	5.8	0.9	5.4	4.6	1.6	1.9	36.5			
1986	20.1	10.4	2.3	0.9	4.6	1.4	3.5	43.7			

Table D.6. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
All species combined ^a												
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	1058.1	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				
1986	364.7 ± 96.7	84.5 ± 14.8	26.1 ± 5.4	53.6 ± 9.6	87.3 ± 14.3	45.1 ± 7.9	89.0 ± 11.4	750.4 ± 100.4				

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.7. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay system (1974-1987).

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Atlantic croaker												
1974-76	113.5 \pm 68.9	2.9 \pm 2.9	0.2 \pm 0.1	0.1 \pm 0.1	5.4 \pm 4.4	2.0 \pm 1.0	0.9 \pm 0.7	125.0 \pm 44.3				
1976-77	2.8 \pm 2.7	2.8 \pm 2.8	0.3 \pm 0.3	0.0	0.9 \pm 0.6	0.8 \pm 0.6	1.0 \pm 0.5	8.7 \pm 4.0				
1977-78	3.3 \pm 1.8	0.7 \pm 0.5	<.1 \pm <.1	0.0	0.6 \pm 0.5	1.3 \pm 0.7	0.4 \pm 0.2	6.3 \pm 2.1				
1978-79	2.6 \pm 1.5	0.0	0.0	0.0	0.0	<.1 \pm <.1	0.2 \pm 0.1	2.8 \pm 1.5				
1979-80	12.5 \pm 12.5	1.4	0.5 \pm 0.4	<.1	3.6	0.4 \pm 0.2	0.3 \pm 0.2	21.1 \pm 13.1				
1980-81	0.3 \pm 0.3	0.3	0.0	0.0	0.4 \pm 0.3	1.1 \pm 0.5	0.5 \pm 0.3	2.7 \pm 0.8				
1981-82	0.5 \pm 0.4	0.3	0.0	0.0	0.3 \pm 0.2	3.8 \pm 2.3	0.4 \pm 0.2	5.3 \pm 2.4				
1982-83	1.3 \pm 1.0	0.9 \pm 0.8	<.1 \pm <.1	0.0	0.1 \pm 0.1	0.1 \pm 0.1	1.1 \pm 0.6	3.6 \pm 1.4				
1983-84	1.3 \pm 1.1	0.0	0.0	11.9 \pm 11.9	0.0	0.0	0.0	13.2 \pm 11.9				
1984-85	5.6 \pm 4.4	1.3 \pm 1.0	0.0	0.0	1.0 \pm 0.8	0.6 \pm 0.5	1.7 \pm 1.3	10.3 \pm 4.8				
1985-86	3.6 \pm 3.5	2.7 \pm 2.7	0.0	0.3 \pm 0.2	0.1 \pm 0.1	0.2 \pm 0.2	0.0	6.9 \pm 4.4				
1986-87	0.7 \pm 0.4	0.2 \pm 0.2	0.0	1.9 \pm 1.9	0.0	1.5 \pm 1.1	0.1 \pm 0.1	4.4 \pm 2.2				
Black drum												
1974-76	19.9 \pm 7.8	3.8 \pm 3.0	0.4 \pm 0.1	1.0 \pm 0.4	0.9 \pm 0.6	7.8 \pm 5.6	1.8 \pm 0.7	35.6 \pm 6.3				
1976-77	0.5 \pm 0.3	2.3 \pm 1.1	1.3 \pm 0.9	0.7 \pm 0.3	0.6 \pm 0.3	0.7 \pm 0.4	2.5 \pm 0.9	8.5 \pm 1.8				
1977-78	5.3 \pm 2.0	1.5 \pm 1.0	2.4 \pm 1.2	1.0 \pm 0.6	1.2 \pm 0.9	2.4 \pm 0.9	4.0 \pm 1.3	17.8 \pm 3.2				
1978-79	19.1 \pm 13.4	0.2 \pm 0.2	1.0 \pm 0.3	0.4 \pm 0.3	0.4 \pm 0.3	1.8 \pm 0.6	1.4 \pm 0.9	24.2 \pm 13.7				
1979-80	0.7 \pm 0.5	5.2 \pm 4.4	0.8 \pm 0.5	0.0	2.6 \pm 1.3	0.9 \pm 0.7	2.8 \pm 1.5	13.1 \pm 4.9				
1980-81	31.5 \pm 24.9	5.9 \pm 5.9	1.3 \pm 0.7	0.1	1.2 \pm 1.0	0.5 \pm 0.3	0.6 \pm 0.3	41.2 \pm 25.6				
1981-82	1.2 \pm 0.8	2.9 \pm 1.5	1.4 \pm 1.0	1.8 \pm 1.0	0.5 \pm 0.3	5.5 \pm 3.4	1.5 \pm 0.7	14.9 \pm 4.1				
1982-83	2.9 \pm 2.9	0.6 \pm 0.6	0.6 \pm 0.3	0.3 \pm 0.2	2.5 \pm 1.5	1.0 \pm 0.6	2.6 \pm 0.9	10.5 \pm 3.4				
1983-84	7.3 \pm 4.5	3.2 \pm 2.1	0.5 \pm 0.4	0.4	0.8 \pm 0.8	0.2 \pm 0.2	2.5 \pm 1.6	14.9 \pm 5.3				
1984-85	0.7 \pm 0.7	2.3 \pm 1.3	0.8 \pm 0.6	0.0	1.8 \pm 1.4	0.1 \pm 0.1	0.7 \pm 0.4	6.5 \pm 2.1				
1985-86	5.7 \pm 3.1	2.2 \pm 1.2	0.6 \pm 0.6	0.1 \pm 0.1	0.9 \pm 0.5	2.7 \pm 2.2	0.5 \pm 0.3	12.9 \pm 4.0				
1986-87	1.0 \pm 0.6	0.2 \pm 0.2	0.7 \pm 0.4	1.1 \pm 0.5	0.4 \pm 0.2	1.8 \pm 1.3	2.1 \pm 1.6	7.2 \pm 2.3				
Gafftopsail catfish												
1974-76	1.0 \pm 0.7	4.0 \pm 3.0	1.5 \pm 0.8	0.0	3.3 \pm 3.0	0.0	0.0	9.8 \pm 1.7				
1976-77	1.7 \pm 1.3	0.5 \pm 0.5	1.7 \pm 1.4	0.2	1.1 \pm 0.8	0.0	0.0	5.2 \pm 2.1				
1977-78	1.0 \pm 0.6	1.9 \pm 1.6	0.4 \pm 0.3	0.7 \pm 0.5	0.1 \pm 0.1	0.0	0.0	4.1 \pm 1.8				
1978-79	9.5 \pm 6.7	0.2 \pm 0.2	0.3 \pm 0.2	1.5 \pm 1.2	1.0 \pm 0.8	0.0	0.0	12.5 \pm 6.9				
1979-80	0.0	0.0	0.5 \pm 0.3	<.1 \pm <.1	0.7 \pm 0.7	0.0	0.0	1.3 \pm 0.7				
1980-81	0.0	0.5 \pm 0.5	0.3 \pm 0.2	0.2 \pm 0.2	0.5 \pm 0.5	0.0	0.0	1.4 \pm 0.7				
1981-82	0.0	0.2 \pm 0.2	0.0	0.4 \pm 0.3	0.0	0.2 \pm 0.2	0.0	0.7 \pm 0.3				
1982-83	0.0	0.0	0.6 \pm 0.5	0.1 \pm 0.1	2.5 \pm 1.7	0.0	0.0	3.2 \pm 1.8				
1983-84	1.1 \pm 1.1	<.1 \pm <.1	0.6 \pm 0.6	0.0	0.1 \pm 0.1	0.0	0.0	1.8 \pm 1.2				
1984-85	0.0	0.8 \pm 0.6	0.2 \pm 0.2	0.0	0.1 \pm 0.1	0.0	0.0	1.1 \pm 0.6				
1985-86	3.0 \pm 1.9	1.0 \pm 0.6	0.0	0.1	0.0	0.0	0.0	4.1 \pm 2.0				
1986-87	1.3 \pm 0.9	0.1 \pm 0.1	0.9 \pm 0.7	0.0	0.2 \pm 0.2	0.0	0.0	2.4 \pm 1.2				

Table D.7. (Cont'd.)

Species Year	Bay system							Coastwide ^a					
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre						
Red drum													
1974-76	13.2 ±	15.3 ±	8.1	2.0 ±	1.2	1.9 ±	1.3	7.5 ±	2.5	5.7 ±	2.8	52.2 ±	7.8
1976-77	0.8 ±	1.9 ±	1.0	1.5 ±	0.6	0.2 ±	0.1	1.6 ±	0.9	2.0 ±	0.9	8.9 ±	1.9
1977-78	2.0 ±	2.7 ±	1.3	5.0 ±	2.3	0.3 ±	0.1	0.7 ±	0.3	2.8 ±	1.1	20.0 ±	3.6
1978-79	0.9 ±	3.9 ±	0.6	1.6 ±	0.9	0.3 ±	0.2	0.2 ±	0.1	0.9 ±	0.3	21.4 ±	6.9
1979-80	0.8 ±	6.9 ±	4.5	2.7 ±	1.9	4.8 ±	2.9	6.5 ±	2.7	5.9 ±	2.7	33.3 ±	8.1
1980-81	5.3 ±	1.6 ±	0.9	0.7 ±	0.4	1.4 ±	0.8	3.2 ±	1.8	1.4 ±	0.9	18.3 ±	4.9
1981-82	0.8 ±	6.0 ±	5.4	4.9 ±	2.9	0.6 ±	0.3	3.3 ±	1.0	2.0 ±	1.1	23.9 ±	7.9
1982-83	0.8 ±	1.5 ±	1.0	5.3 ±	4.9	0.2 ±	0.2	1.5 ±	0.7	2.2 ±	0.6	12.8 ±	5.1
1983-84	2.1 ±	5.0 ±	0.9	1.2 ±	1.0	0.1 ±	0.1	0.1 ±	0.1	3.1 ±	1.3	17.4 ±	5.7
1984-85	0.8 ±	3.6 ±	2.1	1.8 ±	1.1	3.1 ±	1.3	0.9 ±	0.5	2.7 ±	0.8	16.8 ±	4.1
1985-86	0.5 ±	0.5 ±	0.3	2.8 ±	1.0	3.3 ±	1.9	1.6 ±	0.8	3.0 ±	1.4	12.5 ±	2.8
1986-87	3.9 ±	5.5 ±	4.0	10.5 ±	6.5	5.9 ±	2.9	4.7 ±	1.9	5.2 ±	1.5	37.1 ±	9.0
Sand seatrout													
1974-76	57.5 ±	0.3 ±	0.3	0.7 ±	0.6	7.9 ±	3.8	2.3 ±	1.4	2.4 ±	1.8	71.7 ±	25.7
1976-77	1.0 ±	<0.1 ±	<0.1	0.0	0.0	17.3 ±	11.5	0.0	0.0	0.4 ±	0.4	18.8 ±	11.6
1977-78	13.4 ±	2.4 ±	2.4	0.5 ±	0.4	1.6 ±	1.3	0.5 ±	0.5	1.5 ±	1.3	20.3 ±	12.5
1978-79	57.6 ±	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 ±	0.1 ±	0.1	<0.1 ±	<0.1	2.8 ±	1.8	1.2 ±	0.8	1.3 ±	0.6	20.9 ±	9.2
1980-81	0.3 ±	0.0	0.0	0.0	0.0	10.5 ±	7.2	0.1 ±	0.1	0.6 ±	0.6	11.4 ±	7.2
1981-82	0.0	1.3 ±	1.3	4.5 ±	4.5	4.1 ±	2.5	0.1 ±	0.1	1.4 ±	1.1	11.4 ±	5.4
1982-83	0.0	0.0	0.0	1.1 ±	1.1	5.9 ±	2.9	0.2 ±	0.1	0.1 ±	0.1	7.3 ±	3.1
1983-84	32.2 ±	<0.1 ±	<0.1	1.1 ±	1.1	0.0	0.0	0.0	0.0	<0.1 ±	<0.1	33.4 ±	32.2
1984-85	0.4 ±	1.0 ±	1.0	0.6 ±	0.6	0.4 ±	0.3	1.0 ±	1.0	12.8 ±	9.3	15.8 ±	9.4
1985-86	8.1 ±	0.2 ±	0.1	22.6 ±	15.8	0.4 ±	0.3	2.3 ±	1.9	1.9 ±	1.9	36.0 ±	17.1
1986-87	14.7 ±	0.0	0.0	3.2 ±	2.7	0.0	0.0	0.1 ±	<0.1	1.1 ±	0.7	19.0 ±	12.6
Sheepshead													
1974-76	4.9 ±	2.6 ±	1.6	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 ±	0.5	1.1 ±	0.5	0.9 ±	0.5	0.5 ±	0.4	1.0 ±	0.6	5.3 ±	1.5
1977-78	5.0 ±	2.1 ±	1.5	3.0 ±	1.4	0.3 ±	0.3	0.5 ±	0.7	4.3 ±	2.4	17.7 ±	4.2
1978-79	3.3 ±	3.4 ±	2.0	1.6 ±	1.0	1.1 ±	0.6	1.3 ±	0.4	5.3 ±	3.9	16.7 ±	5.0
1979-80	0.6 ±	2.8 ±	1.4	0.1 ±	0.1	3.5 ±	2.0	0.4 ±	0.1	12.5 ±	9.1	19.9 ±	9.4
1980-81	2.5 ±	8.2 ±	7.6	0.1 ±	0.1	17.2 ±	15.3	1.6 ±	0.6	2.6 ±	1.6	32.5 ±	17.3
1981-82	0.8 ±	11.2 ±	8.7	10.3 ±	8.9	0.7 ±	0.6	2.0 ±	0.9	0.9 ±	0.3	27.8 ±	12.6
1982-83	3.8 ±	0.3 ±	0.3	0.7 ±	0.5	23.5 ±	21.1	1.7 ±	0.8	1.8 ±	0.6	32.9 ±	21.5
1983-84	2.0 ±	8.0 ±	7.1	0.3 ±	0.3	0.1 ±	0.1	0.0	0.1	1.0 ±	0.9	11.7 ±	7.3
1984-85	0.2 ±	2.0 ±	1.1	1.7 ±	1.0	0.4 ±	0.4	0.1 ±	0.1	10.3 ±	5.7	15.3 ±	5.9
1985-86	0.5 ±	0.7 ±	0.4	4.9 ±	2.9	1.3 ±	0.9	0.3 ±	0.2	<0.1 ±	<0.1	9.4 ±	3.3
1986-87	1.2 ±	0.5 ±	0.2	9.8 ±	4.9	0.4 ±	0.2	0.1 ±	0.1	0.2 ±	0.1	12.5 ±	5.1

Table D.7. (Cont'd.)

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a			
Southern flounder											
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	0.7 ± 0.2	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	0.1 ± 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			
1986-87	10.6 ± 4.3	2.0 ± 1.7	0.5 ± 0.3	0.8 ± 0.4	3.4 ± 1.9	4.0 ± 1.1	2.7 ± 0.9	24.0 ± 5.2			
Spotted seatrout											
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 ± 34.7			
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 ± 28.7			
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 ± 35.7			
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			
1986-87	37.5 ± 23.6	4.9 ± 1.9	10.1 ± 4.0	21.3 ± 7.9	30.9 ± 19.6	38.6 ± 11.3	21.6 ± 6.2	164.9 ± 34.5			
Other species											
1974-76	64.3 ± 49.0	0.7 ± 0.6	0.5 ± 0.3	1.0 ± 0.9	3.3 ± 2.6	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	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	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	0.1 ± <.1	12.3 ± 4.4			
1979-80	4.0 ± 4.0	2.8 ± 2.3	0.4 ± 0.2	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	0.4 ± 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 ± 0.3	6.5 ± 6.5	0.2	1.7	0.2	25.3			
1984-85	0.6 ± 0.6	7.2	0.3	0.6 ± 0.4	1.1	0.8	14.9	25.6			
1985-86	3.6	7.0	6.6	0.9	0.0	5.2	0.0	23.4			
1986-87	19.9	0.4	0.6	0.9	1.4	0.7	6.0	30.0			

Table D.7. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
All species combined ^a												
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				
1986-87	90.7 ± 36.8	13.8 ± 7.1	14.5 ± 5.1	49.5 ± 13.6	42.6 ± 23.4	51.5 ± 15.1	38.8 ± 8.7	301.6 ± 49.7				

^aDue 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 (1974-1987).

Species Year	Bay system							Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
Atlantic croaker									
1974-76	34.6 ± 2.8	0.0	0.1 ± 0.3	0.0	1.5 ± 0.9	84.2 ± 0.8	0.9 ± 1.0	121.3 ± 8.7	57.1
1976-77	3.3	0.7	<0.1	0.0	0.6	<0.1	0.4	6.3	2.8
1977-78	2.6	0.0	0.0	0.0	0.0	<0.1	0.2	6.8	
1978-79	2.2	1.5 ± 0.5	0.1 ± 0.1	0.2 ± 0.2	0.7 ± 0.1	0.0	0.0	4.8 ± 4.4	2.8
1979-80	0.6 ± 0.3	0.0	0.0	0.0	0.1 ± 0.3	0.4 ± 0.5	2.7 ± 0.1	4.4 ± 3.0	2.8
1980-81	1.4 ± 0.9	0.0	0.0	0.0	0.6 ± 0.3	0.8 ± 0.5	0.1 ± 0.6	3.0 ± 11.2	1.1
1981-82	1.7 ± 1.2	0.4	0.0	2.3 ± 2.2	4.4 ± 2.6	1.0 ± 0.6	1.2 ± 0.2	11.2 ± 1.6	3.8
1982-83	1.6 ± 1.6	0.0	0.0	0.0	0.0	<0.1	<0.1	1.6 ± 7.5	1.6
1983-84	7.1 ± 6.2	0.0	0.0	0.3 ± 1.4	0.0	0.0	0.1 ± 0.3	7.5 ± 3.1	6.2
1984-85	0.0	0.3 ± 0.3	0.0	2.1 ± 0.2	0.1 ± 0.1	0.4 ± 0.5	0.3 ± 0.1	3.1 ± 2.1	1.5
1985-86	0.4 ± 0.4	0.1 ± 0.1	0.0	0.3 ± 0.2	0.2 ± 0.1	1.0 ± 0.7	0.1 ± 0.1	2.1 ± 0.9	0.9
Black drum									
1974-76	3.1 ± 0.7	0.0	0.8 ± 1.8	1.3 ± 1.0	2.9 ± 0.8	0.0	6.3 ± 3.4	14.4 ± 11.9	2.5
1976-77	7.3	2.1	3.3	1.4	1.6	3.3	5.5	24.5	
1977-78	26.4	0.3	1.4	0.5	0.5	2.5	1.9	33.5	
1978-79	2.9 ± 1.9	0.9	0.5 ± 0.1	0.2 ± 0.2	0.0	5.7 ± 0.4	0.0	10.4 ± 26.3	6.0
1979-80	17.0 ± 16.3	7.7 ± 5.3	0.1 ± 0.1	0.0	0.3	0.7 ± 0.3	0.5 ± 1.4	41.0 ± 60.4	17.1
1980-81	22.1 ± 18.1	2.2 ± 1.5	2.8 ± 2.3	6.6 ± 4.1	1.3	2.8 ± 1.4	2.6 ± 1.3	41.0 ± 35.0	18.5
1981-82	40.8 ± 34.7	7.2 ± 4.0	2.9 ± 1.2	3.4 ± 2.0	0.5	1.6 ± 0.5	2.7 ± 1.3	60.4 ± 10.4	3.2
1982-83	0.5 ± 0.4	1.9 ± 1.3	0.4 ± 0.2	2.3 ± 1.8	1.5	1.0 ± 0.9	2.2 ± 2.4	15.8 ± 11.5	6.3
1983-84	2.8 ± 2.3	3.8 ± 2.1	0.3 ± 0.3	5.1 ± 4.9	0.1	0.4 ± 0.4	3.3 ± 2.9	11.5 ± 10.0	6.0
1984-85	0.1 ± 0.1	1.0 ± 0.5	0.0	0.3 ± 0.2	5.8	0.2 ± 0.2	2.9 ± 1.3	11.5 ± 10.0	6.0
1985-86	1.8 ± 1.2	1.7 ± 1.2	0.0	3.2 ± 2.0	0.2 ± 0.1	1.2 ± 1.1	1.9 ± 1.3	15.5 ± 8.0	4.9
Gafftopsail catfish									
1974-76	0.6 ± 2.6	9.3 ± 0.8	<0.1 ± 2.6	5.6 ± 0.3	0.0	0.0	0.0	15.5 ± 8.0	4.9
1976-77	1.5	2.9	0.6	1.1	1.7	0.0	0.0	6.2	
1977-78	14.4	0.3	0.5	2.3	0.1	0.0	0.0	19.0	
1978-79	0.0	0.0	0.3 ± 0.3	0.0	2.5 ± 0.7	0.2 ± 0.2	0.0	3.0 ± 10.5	2.5
1979-80	9.2 ± 7.6	0.6 ± 0.6	0.0	0.0	0.7 ± 14.1	0.1 ± 0.1	0.0	18.3 ± 3.7	7.7
1980-81	0.1 ± 0.1	1.9 ± 1.9	0.0	1.8 ± 1.2	14.5 ± 1.8	0.0	0.0	10.5 ± 18.3	14.3
1981-82	0.0	0.6 ± 0.5	1.2 ± 0.7	0.0	1.8 ± 0.0	0.0	0.0	3.7 ± 0.8	1.5
1982-83	0.1 ± 0.6	0.4 ± 0.4	0.0	0.4 ± 0.4	0.0	0.0	0.0	1.2 ± 1.2	0.4
1983-84	0.6 ± 0.0	0.0	0.0	0.3 ± 0.3	0.2 ± 0.3	0.1 ± 0.1	0.1 ± 0.0	1.2 ± 0.5	0.7
1984-85	0.0	0.0	0.0	1.0 ± 0.9	0.3 ± 0.1	0.0	0.0	2.0 ± 2.0	0.3
1985-86	0.0	0.0	0.0	1.0 ± 0.9	0.2 ± 0.1	0.0	0.0	2.0 ± 2.0	0.3
1986-87	0.0	0.7 ± 0.5	0.0	1.0 ± 0.9	0.2 ± 0.1	0.0	0.0	2.0 ± 2.0	1.1

Table D.8. (Cont'd.)

Species Year	Bay system								Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre			
Red drum										
1974-76	18.3 ± 1.0	7.7	6.3 ± 0.5	7.7 ± 0.9	4.2 ± 0.2	1.3 ± 1.9	4.0 ± 2.4	2.1	42.7 ± 8.0	5.9
1976-77	2.4		4.0	3.0	0.4	0.8	3.4		15.6	
1977-78	1.1		8.2	1.0	0.4	0.2	1.1		14.3	
1978-79	3.1 ± 1.5	3.1	3.6 ± 1.1	4.4 ± 0.0	1.2 ± 2.0	4.3 ± 1.9	2.2 ± 0.6	2.2	19.7 ± 7.1	6.5
1979-80	1.5 ± 7.1	1.0	<0.1 ± 1.7	2.5 ± 3.1	1.2 ± 1.2	1.9 ± 1.6	0.6 ± 2.6	0.3	17.1 ± 13.6	2.4
1980-81	4.5	4.5	0.8	1.4	0.5	0.7	1.4	1.4	7.1 ± 13.6	5.1
1981-82	1.3 ± 3.4	1.3	0.5 ± 1.5	1.5 ± 2.5	0.5 ± 3.4	0.8 ± 0.4	5.9 ± 2.8	2.4	18.4 ± 22.8	3.2
1982-83	3.4 ± 8.6	1.9	0.4 ± 2.1	1.8 ± 2.2	3.4 ± 4.0	0.4 ± 1.0	4.5 ± 6.1	1.8	19.9 ± 19.9	6.7
1983-84	0.9 ± 16.2	4.8	0.8 ± 0.5	4.1 ± 1.6	4.0 ± 5.6	1.0 ± 3.2	6.1 ± 11.7	2.5	55.0 ± 17.1	4.1
1984-85	0.6	0.6	0.5	1.6	2.3	1.4	4.2	4.2		
1985-86	13.4	0.9	0.1	9.4	5.6	1.4	11.7	4.2		
1986-87	215.7 ± 1.4	1.9 ± 3.1	3.4 ± 0.0	8.5 ± 0.0	6.7 ± 23.5	1.3 ± 0.0	0.0	0.0	237.5 ± 25.4	131.2
Sand seatrout										
1974-76	18.2	2.3	0.5	0.7	2.2	0.7	0.5	0.5	27.6	
1976-77	78.2	0.0	0.0	4.1	1.4	1.2	0.7	2.0	85.6	
1977-78	3.5 ± 4.6	2.3	0.0	0.0	3.9 ± 3.8	0.2 ± 0.0	0.0	0.4	7.7 ± 8.8	4.5
1978-79	4.6 ± 3.5	2.6	0.0	0.0	3.1 ± 10.7	0.6 ± 0.4	0.4	1.5	20.1 ± 46.9	7.9
1979-80	2.7	0.7	0.7	4.2	16.2	0.2 ± 0.1	2.3 ± 0.6	1.4	2.9 ± 17.8	10.0
1980-81	<0.1 ± 13.6	<0.1	0.0	0.2	1.0 ± 0.2	0.0	0.2	0.3	2.9 ± 32.3	16.8
1981-82	9.5	9.5	0.0	0.0	26.7 ± 0.0	3.7 ± 1.9	1.0 ± 0.2	0.5	9.6 ± 9.6	6.9
1982-83	0.0	6.4	0.0	2.6	0.0	0.2 ± 0.2	0.2 ± 0.1	0.1		
1983-84	13.4 ± 1.5	8.4	1.2 ± 0.1	33.6	0.1 ± 1.2	5.1 ± 0.7	0.6 ± 1.4	0.6	60.0 ± 7.3	22.0
1984-85	6.8	2.9	2.2	4.1	0.4	1.8	5.8	5.8	24.0	
1985-86	4.5	4.6	0.8	2.2	1.5	1.8	7.2	7.2	22.6	
1986-87	52.9 ± 8.9	47.3	0.0	14.5 ± 13.8	2.2 ± 33.5	3.7 ± 2.5	16.3 ± 2.8	10.1	90.0 ± 62.5	50.6
1974-76	8.9 ± 2.8	7.8	<0.1 ± 4.5	9.7 ± 3.7	19.2 ± 14.1	2.0 ± 0.9	2.8 ± 16.5	1.5	23.1 ± 43.0	13.0
1976-77	1.9	1.9	0.3 ± 0.5	2.1	8.0	0.4	9.3	9.3	74.9 ± 25.4	10.3
1977-78	0.8 ± 1.7	0.5	4.7 ± 6.3	10.6 ± 6.4	37.9 ± 0.6	0.7 ± 0.2	6.5 ± 8.5	6.5	28.3 ± 40.4	24.9
1978-79	1.7 ± 0.3	6.1	0.2 ± 0.0	24.8 ± 11.9	0.8 ± 0.6	0.2 ± 0.1	2.6 ± 1.7	4.9	19.0 ± 5.3	5.3
1979-80	0.3 ± 2.0	0.9	0.0	34.5 ± 4.6	0.6 ± 0.6	0.2 ± 0.1	0.3 ± 0.1	1.3	57.3 ± 24.8	
1980-81	2.0 ± 1.5	1.7	0.1 ± 0.2	11.9 ± 4.1	0.6 ± 5.2	0.2 ± 0.1	0.3 ± 0.1	0.2		
1981-82	1.5	5.7	0.2 ± 0.2	41.1 ± 23.9	3.2	0.1	0.1	0.1		
1982-83	7.9 ± 1.5	5.7	0.2 ± 0.2	23.9	3.2	0.1	0.1	0.1		

Table D.8. (Cont'd.)

Species Year	Bay system							Upper Laguna Madre		Lower Laguna Madre		Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre			
Southern flounder												
1974-76	34.1 ± 0.9	11.6 ± 6.0	1.3 ± 0.5	5.9 ± 0.6	2.1 ± 0.4	9.0 ± <.1	0.2 ± <.1	64.2 ± 8.4	0.2 ± <.1	64.2 ± 8.4		
1976-77	3.4	2.8	0.8	0.6	0.4	0.7	1.4	10.1	1.4	10.1		
1977-78	2.5	3.9	0.1	1.9	0.8	1.0	0.8	11.0	0.8	11.0		
1978-79	191.9 ± 191.5	1.0 ± 1.0	0.1 ± 0.1	0.0	1.4 ± 0.9	0.8 ± 0.4	0.4	196.2 ± 191.5	0.9	196.2 ± 191.5		
1980-81	0.3 ± 0.2	0.0	<.1 ± <.1	0.1	9.7 ± 9.0	4.1 ± 3.0	0.4 ± 0.2	14.5 ± 9.5	0.4 ± 0.2	14.5 ± 9.5		
1981-82	4.2 ± 2.2	0.7 ± 0.5	0.7 ± 0.5	1.2 ± 0.5	0.6 ± 0.3	0.5 ± 0.3	1.4 ± 0.4	9.3 ± 2.4	0.4 ± 0.4	9.3 ± 2.4		
1982-83	2.0 ± 1.0	0.8 ± 0.4	0.6 ± 0.6	1.4 ± 0.5	0.8 ± 0.4	2.2 ± 0.7	2.5 ± 0.8	10.4 ± 1.7	0.8 ± 0.8	10.4 ± 1.7		
1983-84	6.1 ± 3.2	2.2 ± 1.5	0.1 ± 0.1	1.1 ± 0.9	0.1 ± 0.1	0.8 ± 0.5	0.1 ± 0.1	10.5 ± 3.7	0.1 ± 0.1	10.5 ± 3.7		
1984-85	18.2 ± 12.4	0.4 ± 0.3	0.3 ± 0.2	1.5 ± 1.1	2.5 ± 1.6	0.1 ± 0.1	0.1 ± 0.1	28.2 ± 12.8	2.5 ± 2.5	28.2 ± 12.8		
1985-86	4.8 ± 4.3	1.6 ± 1.1	0.2 ± 0.2	3.7 ± 1.8	5.6 ± 3.0	2.3 ± 0.9	6.1 ± 2.6	24.4 ± 6.2	6.1 ± 2.6	24.4 ± 6.2		
1986-87	4.8 ± 3.2	0.8 ± 0.4	0.0	1.4 ± 0.6	1.8 ± 0.9	2.1 ± 1.0	7.3 ± 2.2	18.2 ± 4.2	7.3 ± 2.2	18.2 ± 4.2		
Spotted seatrout												
1974-76	112.3 ± 27.9	16.7 ± 3.7	43.3 ± 0.8	89.5 ± 21.2	19.2 ± 6.2	74.0 ± 9.1	65.6 ± 107.0	420.6 ± 175.9	33.6	420.6 ± 175.9		
1976-77	5.3	7.5	4.2	14.5	9.5	15.6	22.2	78.8	22.2	78.8		
1977-78	9.7	13.0	0.9	19.1	6.2	9.5	11.6	70.0	11.6	70.0		
1978-79	9.8 ± 9.8	3.5 ± 3.5	6.6 ± 4.0	3.3 ± 1.8	6.2 ± 6.0	45.3 ± 25.3	31.3 ± 2.5	106.1 ± 36.2	2.5	106.1 ± 36.2		
1979-80	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	9.9	190.8 ± 73.6		
1980-81	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	7.5	178.1 ± 43.2		
1981-82	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	12.0	117.4 ± 19.3		
1982-83	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	7.1	101.3 ± 32.2		
1983-84	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	11.6	74.9 ± 25.3		
1984-85	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	6.9	115.7 ± 24.0		
1985-86	35.2 ± 18.0	35.3 ± 22.6	4.3 ± 1.8	28.0 ± 14.3	22.1 ± 7.3	25.6 ± 9.6	55.0 ± 14.4	205.4 ± 37.4	14.4	205.4 ± 37.4		
Other species												
1974-76	17.9 ± 0.1	1.9 ± 0.6	0.7 ± 0.5	0.0	0.2 ± 1.0	1.3 ± 0.0	0.0	22.0 ± 11.7	0.0	22.0 ± 11.7		
1976-77	29.0	0.4	0.6	0.4	1.0	0.0	9.5	32.8	1.4	32.8		
1977-78	9.8	<.1	0.1	0.5	5.9	0.0	0.1	16.4	0.1	16.4		
1978-79	0.0	0.0	0.0	0.0	44.5 ± 44.5	0.2 ± 0.2	1.3 ± 1.3	46.0 ± 44.6	1.3	46.0 ± 44.6		
1980-81	18.1 ± 12.2	<.1 ± <.1	<.1 ± <.1	0.0	3.0 ± 1.9	0.0	2.6 ± 2.1	23.8 ± 12.5	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 ± <.1	0.8 ± 0.3	13.1 ± 3.4	0.3	13.1 ± 3.4		
1982-83	14.1 ± 7.0	0.0	1.1 ± 0.5	1.4 ± 0.8	9.4 ± 3.8	0.3 ± 0.2	3.0 ± 1.5	29.4 ± 8.1	1.5	29.4 ± 8.1		
1983-84	26.5 ± 26.5	0.5 ± 0.5	0.0	1.6	0.4	0.1 ± 0.1	2.0 ± 1.7	31.2	1.7	31.2		
1984-85	2.8	<.1 ± <.1	0.0	0.3 ± 0.3	2.2	<.1 ± <.1	0.4	5.7	0.4	5.7		
1985-86	31.9	0.1 ± 0.1	0.0	1.1	3.7	3.6	1.6 ± 0.7	41.8	0.7	41.8		
1986-87	6.3	1.4	0.7	28.8	1.5	7.9	11.0	57.5	11.0	57.5		

Table D.8. (Cont'd.)

Species Year	Bay system								Upper Laguna Madre		Lower Laguna Madre		Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a					
All species combined ^a													
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					
1986-87	73.8 ± 35.0	49.8 ± 23.7	5.3 ± 1.9	122.7 ± 60.1	36.8 ± 10.3	41.3 ± 13.8	87.5 ± 22.1	417.1 ± 78.7					

^aDue 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 (1974-1987).

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
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
1986-87	0.15 \pm 0.05	0.01 \pm <.01	0.00	0.01 \pm <.01	0.02 \pm <.01	0.02 \pm <.01	0.01 \pm <.01	0.06 \pm 0.02
Black drum								
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 0.01	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 <.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
1986-87	0.01 \pm <.01	0.02 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01
Gafftopsail catfish								
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	<.01	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	<.01 \pm <.01	0.01 \pm 0.01	0.05 \pm 0.04	0.00	0.00	0.01 \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 <.01
1985-86	<.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01
1986-87	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01

Table D.9. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum								
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
1986-87	0.02 ± 0.01	0.05 ± 0.01	0.07 ± 0.02	0.01 ± 0.01	0.05 ± 0.01	0.02 ± 0.01	0.06 ± 0.01	0.04 ± 0.01
Sand seatrout								
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	0.19 ± 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	0.04 ± 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
1986-87	0.13 ± 0.04	0.01 ± 0.01	<0.01	0.03 ± 0.01	0.05 ± 0.02	<0.01	0.02 ± 0.01	0.06 ± 0.01
Sheepshead								
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	0.02 ± 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	0.02 ± 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	0.02 ± 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	0.02 ± 0.01	0.01 ± 0.01
1986-87	<0.01	0.02 ± 0.01	0.01 ± 0.01	0.07 ± 0.04	0.01 ± 0.01	0.00	<0.01	0.01 ± 0.01

Table D.9. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1974-76	0.03 ± 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 ± < .01	0.04 ± 0.01
1986-87	0.03 ± < .01	0.02 ± 0.01	0.03 ± 0.01	0.01 ± < .01	0.02 ± < .01	0.03 ± < .01	0.04 ± < .01	0.03 ± < .01
Spotted seatrout								
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
1986-87	0.11 ± 0.02	0.13 ± 0.04	0.18 ± 0.04	0.11 ± 0.03	0.17 ± 0.04	0.13 ± 0.02	0.21 ± 0.03	0.14 ± 0.01
Other species								
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
1986-87	0.04 ± 0.01	0.02	0.02 ± 0.01	0.04	0.01	0.01	0.03	0.03

Table D.9. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
All species combined ^a								
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
1986-87	0.52 ± 0.11	0.28 ± 0.06	0.32 ± 0.07	0.36 ± 0.10	0.33 ± 0.07	0.22 ± 0.04	0.38 ± 0.04	0.38 ± 0.04

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.10. 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 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	
Atlantic croaker								
1975	0.29 ± 0.19	0.04 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.03	0.03 ± 0.02	0.14 ± 0.07
1976	0.55 ± 0.22	0.08 ± 0.06	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.10 ± 0.04	0.03 ± 0.01	0.24 ± 0.08
1977	0.43 ± 0.18	0.06 ± 0.03	<.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.09 ± 0.05	0.03 ± 0.01	0.26 ± 0.09
1978	0.27 ± 0.08	0.05 ± 0.03	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.07 ± 0.02	0.02 ± 0.01	0.16 ± 0.04
1979	0.34 ± 0.14	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.05 ± 0.02	0.02 ± 0.01	0.18 ± 0.07
1980	0.23 ± 0.09	0.05 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.16 ± 0.09	0.01 ± 0.01	0.10 ± 0.02
1981	0.12 ± 0.06	0.02 ± 0.01	<.01 ± <.01	0.00	0.24 ± 0.19	0.04 ± 0.01	0.01 ± 0.01	0.08 ± 0.03
1982	0.10 ± 0.03	0.02 ± 0.01	0.01 ± <.01	0.03 ± 0.02	0.03 ± 0.01	0.05 ± 0.02	0.02 ± 0.01	0.06 ± 0.01
1983	0.08 ± 0.04	0.02 ± 0.01	0.01 ± <.01	0.03 ± 0.02	0.04 ± 0.03	0.05 ± 0.01	0.01 ± <.01	0.05 ± 0.01
1984	0.15 ± 0.05	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.08 ± 0.02
1985	0.15 ± 0.05	0.02 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.01 ± <.01	0.06 ± 0.02
1986	0.21 ± 0.09	0.02 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.10 ± 0.04
Black drum								
1975	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.04 ± 0.04	0.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01
1976	0.06 ± 0.02	0.02 ± 0.01	0.12 ± 0.09	0.01 ± 0.01	0.02 ± 0.01	0.04 ± 0.03	0.01 ± <.01	0.04 ± 0.01
1977	0.04 ± 0.01	0.05 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.04 ± 0.01
1978	0.02 ± 0.01	0.03 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.02 ± 0.01
1979	0.05 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.08 ± 0.05	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.03 ± 0.01
1980	0.03 ± 0.01	0.08 ± 0.05	0.01 ± 0.01	<.01 ± <.01	0.04 ± 0.02	0.01 ± <.01	0.03 ± 0.02	0.03 ± 0.01
1981	<.01 ± <.01	0.05 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	0.01 ± <.01
1982	0.04 ± 0.01	0.04 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.03 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.03 ± 0.01
1983	0.01 ± <.01	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
1984	0.02 ± <.01	0.01 ± <.01	<.01 ± <.01	0.00	0.01 ± <.01	<.01 ± 0.00	<.01 ± <.01	0.01 ± <.01
1985	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01
1986	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
Gafftopsail catfish								
1975	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.00	0.00	0.00	0.01 ± 0.01
1976	<.01 ± <.01	0.09 ± 0.08	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	<.01	<.01	0.02 ± 0.01
1977	<.01 ± <.01	0.07 ± 0.04	0.02 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.00	0.00	0.01 ± 0.01
1978	<.01 ± <.01	0.05 ± 0.03	0.01 ± 0.01	0.01 ± <.01	0.02 ± 0.01	<.01	<.01	0.01 ± 0.01
1979	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	<.01	<.01	<.01 ± 0.01
1980	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.00	0.00	<.01 ± 0.01
1981	<.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.00	0.00	<.01 ± 0.01
1982	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.00	0.00	<.01 ± 0.01
1983	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.00	0.00	<.01 ± 0.01
1984	<.01 ± 0.00	0.01 ± <.01	0.02 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.00	0.00	<.01 ± 0.01
1985	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.00	0.00	<.01 ± 0.01
1986	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.00	0.00	<.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	
Red drum								
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
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
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
1978	0.01 ± <.01	0.04 ± 0.02	0.02 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± <.01
1979	0.01 ± 0.01	0.08 ± 0.04	0.07 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.02 ± 0.01
1980	0.01 ± 0.01	0.06 ± 0.03	0.04 ± 0.01	0.03 ± 0.02	0.04 ± 0.02	0.04 ± 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 ± <.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 ± <.01
1983	0.01 ± <.01	0.06 ± 0.02	0.10 ± 0.03	0.05 ± 0.02	0.02 ± 0.01	0.02 ± <.01	0.06 ± 0.01	0.03 ± 0.01
1984	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.04 ± 0.02	0.03 ± 0.01	0.01 ± <.01	0.05 ± 0.01	0.02 ± <.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 ± <.01
1986	0.02 ± <.01	0.08 ± 0.02	0.09 ± 0.04	0.06 ± 0.02	0.05 ± 0.02	0.02 ± 0.01	0.07 ± 0.01	0.04 ± <.01
Sand seatrout								
1975	0.58 ± 0.55	0.08 ± 0.07	0.01 ± <.01	0.03 ± 0.03	0.40 ± 0.22	0.03 ± 0.01	0.06 ± 0.04	0.26 ± 0.24
1976	0.52 ± 0.32	0.10 ± 0.07	<.01 ± <.01	0.15 ± 0.11	0.30 ± 0.11	0.06 ± 0.04	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
1978	0.26 ± 0.15	0.04 ± 0.03	<.01 ± <.01	0.01 ± 0.01	0.12 ± 0.05	0.01 ± <.01	0.01 ± 0.01	0.14 ± 0.07
1979	0.18 ± 0.05	0.05 ± 0.03	0.03 ± 0.01	<.01 ± <.01	0.17 ± 0.08	0.01 ± 0.01	0.01 ± <.01	0.11 ± 0.03
1980	0.16 ± 0.07	0.01 ± 0.01	<.01 ± <.01	0.07 ± 0.03	0.27 ± 0.16	0.01 ± 0.01	0.03 ± 0.02	0.07 ± 0.02
1981	0.04 ± 0.02	0.09 ± 0.08	0.02 ± 0.01	0.01 ± <.01	0.23 ± 0.09	0.01 ± 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
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
1984	0.20 ± 0.07	0.06 ± 0.04	0.01 ± <.01	0.12 ± 0.06	0.09 ± 0.05	0.05 ± 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 ± <.01	0.02 ± 0.01	0.01 ± <.01	0.03 ± 0.01	0.06 ± 0.02
1986	0.17 ± 0.05	0.02 ± 0.01	<.01 ± <.01	0.02 ± 0.01	0.03 ± 0.02	0.01 ± <.01	0.04 ± 0.01	0.08 ± 0.02
Sheepshead								
1975	<.01 ± <.01	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01
1976	0.02 ± 0.01	0.06 ± 0.05	0.01 ± <.01	0.03 ± 0.02	0.03 ± 0.02	0.01 ± <.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 ± <.01	0.01 ± <.01	0.05 ± 0.03
1978	0.02 ± <.01	0.04 ± 0.02	<.01 ± <.01	<.01 ± <.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01
1979	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.02 ± 0.01
1980	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± <.01
1981	0.01 ± <.01	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
1982	0.02 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01
1983	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
1984	0.02 ± <.01	0.03 ± 0.02	0.01 ± <.01	<.01 ± <.01	<.01 ± 0.00	0.00	<.01 ± <.01	0.01 ± <.01
1985	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01	0.01 ± <.01
1986	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01

Table D.10. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1975	0.03 ± 0.03	0.04 ± 0.03	0.04 ± 0.02	0.10 ± 0.07	<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
1986	0.04 ± 0.01	0.03 ± 0.01	0.04 ± 0.03	0.01 ± <0.01	0.02 ± <0.01	0.03 ± 0.01	0.04 ± 0.01	0.03 ± <0.01
Spotted seatrout								
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	0.08 ± 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	0.10 ± 0.04	0.30 ± 0.11	0.24 ± 0.09	0.44 ± 0.19	0.46 ± 0.18	0.32 ± 0.10	0.41 ± 0.14	0.21 ± 0.04
1978	0.12 ± 0.04	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	0.30 ± 0.12	0.41 ± 0.09	0.21 ± 0.03
1980	0.07 ± 0.03	0.10 ± 0.04	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
1986	0.08 ± 0.02	0.07 ± 0.02	0.13 ± 0.06	0.06 ± 0.02	0.10 ± 0.04	0.09 ± 0.03	0.15 ± 0.02	0.09 ± 0.01
Other species								
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
1986	0.04 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.03 ± 0.01	0.02 ± 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	
All species combined ^a								
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
1986	0.58 ± 0.18	0.26 ± 0.06	0.30 ± 0.12	0.17 ± 0.04	0.24 ± 0.07	0.18 ± 0.05	0.34 ± 0.05	0.38 ± 0.07

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.11. 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 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	
Atlantic croaker								
1974-75	0.29 \pm 0.25	0.02 \pm 0.02	0.05 \pm 0.03	<.01 \pm <.01	0.05 \pm 0.05	0.18 \pm 0.09	0.01 \pm 0.01	0.19 \pm 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	0.02	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 \pm 0.01	0.00	<.01 \pm <.01	0.00	0.01 \pm 0.01	0.67 \pm 0.40	0.00	0.07 \pm 0.05
1980	0.22 \pm 0.17	0.15 \pm 0.13	0.02 \pm 0.01	0.01 \pm 0.01	0.27 \pm 0.27	0.10 \pm 0.05	0.03 \pm 0.01	0.20 \pm 0.11
1981	0.14 \pm 0.05	0.01 \pm 0.01	0.01 \pm <.01	0.01 \pm <.01	0.12 \pm 0.05	0.02 \pm 0.01	0.01 \pm <.01	0.08 \pm 0.02
1982	0.15 \pm 0.04	0.02 \pm 0.01	<.01 \pm <.01	0.01 \pm <.01	0.12 \pm 0.05	0.02 \pm 0.01	0.01 \pm <.01	0.08 \pm 0.02
1983	0.16 \pm 0.06	0.02 \pm 0.01	0.01 \pm <.01	0.09 \pm 0.03	0.07 \pm 0.03	0.02 \pm 0.01	0.01 \pm <.01	0.08 \pm 0.02
1984	0.19 \pm 0.06	0.02 \pm 0.01	<.01 \pm <.01	0.02 \pm 0.01	0.04 \pm 0.02	0.01 \pm 0.01	0.01 \pm <.01	0.09 \pm 0.02
1985	0.25 \pm 0.08	0.04 \pm 0.02	<.01 \pm <.01	0.01 \pm <.01	0.05 \pm 0.02	0.05 \pm 0.02	0.03 \pm 0.01	0.11 \pm 0.03
1986	0.25 \pm 0.12	0.02 \pm 0.01	0.00	0.01 \pm <.01	0.03 \pm 0.01	0.02 \pm 0.01	0.01 \pm <.01	0.09 \pm 0.04
Black drum								
1974-75	0.00	0.09 \pm 0.09	0.01 \pm 0.01	0.10 \pm 0.10	0.14 \pm 0.10	0.02 \pm 0.01	0.07 \pm 0.06	0.03 \pm 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 \pm <.01	0.03 \pm 0.03	<.01 \pm <.01	0.00	0.00	0.00	0.01 \pm 0.01	<.01 \pm <.01
1980	0.02 \pm 0.01	0.03 \pm 0.03	0.01 \pm <.01	0.02 \pm 0.01	0.01 \pm <.01	0.02 \pm 0.02	0.02 \pm 0.01	0.02 \pm 0.01
1981	0.05 \pm 0.02	0.05 \pm 0.02	0.07 \pm 0.06	0.04 \pm 0.02	0.04 \pm 0.02	<.01 \pm <.01	0.01 \pm <.01	0.04 \pm 0.01
1982	0.04 \pm 0.02	0.07 \pm 0.02	<.01 \pm <.01	0.02 \pm 0.01	0.03 \pm 0.02	0.01 \pm <.01	0.01 \pm <.01	0.03 \pm 0.01
1983	0.03 \pm 0.01	0.04 \pm 0.02	0.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.02 \pm <.01
1984	0.02 \pm 0.01	0.04 \pm 0.02	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	0.02 \pm <.01
1985	0.03 \pm 0.01	0.03 \pm 0.02	<.01 \pm <.01	<.01 \pm 0.01	0.02 \pm 0.02	0.01 \pm 0.01	0.01 \pm <.01	0.02 \pm 0.01
1986	0.01 \pm <.01	0.03 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01
Gafftopsail catfish								
1974-75	0.02 \pm 0.02	0.00	0.01 \pm 0.01	0.04 \pm 0.04	0.00	0.00	0.00	0.02 \pm 0.01
1976	0.02	0.15	0.01	<.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 \pm <.01	0.00	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm 0.01	0.00	0.00	0.00
1981	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm <.01	<.01 \pm <.01	0.02 \pm 0.01	0.00	0.00	<.01 \pm <.01
1982	0.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	0.02 \pm 0.01	0.00	0.00	<.01 \pm <.01
1983	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	0.01 \pm 0.01	0.00	<.01 \pm <.01	<.01 \pm <.01
1984	<.01 \pm <.00	0.01 \pm 0.01	0.03 \pm 0.02	0.01 \pm <.01	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
1985	<.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	0.01 \pm <.01
1986	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01	<.01 \pm <.01

Table D.11. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
Red drum								
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 ± <0.01	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 ± <0.01
1983	0.03 ± 0.01	0.08 ± 0.03	0.11 ± 0.03	0.07 ± 0.02	0.03 ± 0.01	0.02 ± <0.01	0.07 ± 0.02	0.04 ± 0.01
1984	0.01 ± <0.01	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 ± <0.01
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
1986	0.02 ± 0.01	0.06 ± 0.01	0.06 ± 0.02	0.06 ± 0.02	0.06 ± 0.02	0.03 ± 0.01	0.08 ± 0.02	0.05 ± <0.01
Sand seatrout								
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
1986	0.20 ± 0.11	<.01 ± <.01	<.01	0.06 ± 0.03	0.16 ± 0.06	0.01 ± 0.01	0.01 ± <.01	0.09 ± 0.04
Sheepshead								
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 ± 0.02	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 ± 0.01
1984	0.03 ± 0.02	0.04 ± 0.03	0.01 ± <.01	<.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	<.01 ± <.01	0.01 ± <.01	0.00	0.01 ± <.01	0.01 ± <.01
1986	0.01 ± <.01	0.02 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.00	0.00	<.01 ± <.01	0.01 ± <.01

Table D.11. (Cont'd.)

Species Year	Bay system							Upper			Lower		
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide			
Southern flounder													
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	0.05 ± 0.05	0.02 ± 0.01	0.02 ± 0.01			
1976	0.04	0.03	0.04	0.03	0.04	0.01	0.01	0.01	0.03	0.03			
1977	0.02	0.04	0.02	0.05	0.08	<.01	0.02	0.02	0.02	0.03			
1978	0.02	0.04	0.02	0.02	0.00	0.08 ± 0.03	0.00	0.05 ± 0.02	0.02	0.03			
1979	0.33 ± 0.33	0.00	0.08 ± 0.04	0.00	0.00	0.01 ± 0.01	0.00	0.05 ± 0.05	0.02	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	0.15 ± 0.09	0.03 ± 0.02	0.05 ± 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	0.03 ± 0.01	0.05 ± 0.02	0.07 ± 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	0.04 ± 0.02	0.03 ± 0.01	0.03 ± 0.01	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	0.08 ± 0.03	0.03 ± 0.01	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	0.03 ± 0.01	0.07 ± 0.02	0.07 ± 0.02	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	0.04 ± 0.01	0.01 ± 0.01	0.04 ± 0.01	0.04 ± 0.01			
1986	0.05 ± 0.02	0.03 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.01	0.04 ± 0.02	0.04 ± 0.01	0.05 ± 0.01	0.05 ± 0.01	0.04 ± 0.01			
Spotted seatrout													
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	0.45 ± 0.24	0.49 ± 0.21	0.49 ± 0.21			
1976	0.22	0.09	0.45	1.44	1.22	1.14	0.72	0.72	0.62	0.62			
1977	0.26	0.31	0.25	1.23	1.27	0.33	0.69	0.69	0.43	0.43			
1978	0.34	0.16	0.11	0.87	0.71	0.14	0.47	0.47	0.36	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	0.69 ± 0.51	0.17 ± 0.09	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	0.53 ± 0.30	0.42 ± 0.17	0.42 ± 0.17			
1981	0.36 ± 0.13	0.37 ± 0.12	0.45 ± 0.10	0.52 ± 0.19	0.44 ± 0.19	0.25 ± 0.10	0.52 ± 0.10	0.52 ± 0.10	0.38 ± 0.07	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	0.59 ± 0.10	0.31 ± 0.03	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	0.48 ± 0.10	0.29 ± 0.04	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	0.21 ± 0.04	0.09 ± 0.01	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	0.22 ± 0.04	0.14 ± 0.02	0.14 ± 0.02			
1986	0.20 ± 0.06	0.23 ± 0.06	0.19 ± 0.06	0.09 ± 0.03	0.22 ± 0.06	0.12 ± 0.03	0.29 ± 0.06	0.29 ± 0.06	0.19 ± 0.02	0.19 ± 0.02			
Other species													
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	0.10 ± 0.09	0.03 ± 0.01	0.03 ± 0.01			
1976	0.05	0.01	0.01	0.01	0.06	0.01	0.02	0.02	0.03	0.03			
1977	0.02	0.03	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.02			
1978	0.05	0.02	0.01	<.01	0.01	<.01	0.01	0.01	0.03	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	0.04 ± 0.04	0.06 ± 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	<.01 ± <.01	0.04 ± 0.02	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	0.01 ± <.01	0.03 ± 0.01	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	0.01 ± <.01	0.04 ± 0.01	0.04 ± 0.01			
1983	0.04	0.01 ± <.01	0.03	0.11	0.03	0.01	0.01	0.01	0.04	0.04			
1984	0.03	0.02	0.02	0.03	0.03	<.01 ± <.01	0.02	0.02	0.02	0.02			
1985	0.04	0.04	0.02	0.03	0.03	0.01	0.01	0.01	0.03	0.03			
1986	0.04 ± 0.02	0.06 ± 0.04	0.03 ± 0.01	0.01 ± <.01	0.03 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01			

Table D.11. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
All species combined ^a									
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	
1986	0.58 ± 0.18	0.47 ± 0.11	0.32 ± 0.11	0.25 ± 0.06	0.53 ± 0.12	0.22 ± 0.06	0.47 ± 0.08	0.50 ± 0.08	

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table D.12. Mean catch rates of fishes (No./man-h) ± 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay system (1974-1987).

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
1974-76	0.22 ± 0.15	0.02 ± 0.02	<.01 ± <.01	<.01 ± <.01	0.11 ± 0.09	0.01 ± <.01	0.01 ± <.01	0.10 ± 0.05
1976-77	0.03 ± 0.03	0.05 ± 0.05	0.01 ± 0.01	0.00	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01
1977-78	0.02 ± 0.01	0.01 ± 0.01	0.00	0.00	0.02 ± 0.02	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01
1978-79	0.01 ± 0.01	0.00	0.00	0.00	0.00	<.01	<.01 ± <.01	0.01 ± <.01
1979-80	0.05 ± 0.05	0.03 ± 0.02	0.01 ± 0.01	<.01 ± <.01	0.06 ± 0.05	<.01 ± <.01	<.01 ± <.01	0.03 ± 0.02
1980-81	<.01 ± <.01	0.01 ± 0.01	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01	0.01 ± <.01	<.01 ± <.01
1981-82	<.01 ± <.01	<.01 ± <.01	0.00	0.00	0.01 ± <.01	0.03 ± 0.02	0.01 ± 0.01	0.01 ± <.01
1982-83	0.02 ± 0.01	0.04 ± 0.03	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01
1983-84	<.01 ± <.01	0.00	0.00	0.74 ± 0.74	0.00	0.00	0.00	0.03 ± 0.02
1984-85	0.04 ± 0.03	0.01 ± 0.01	0.00	0.00	<.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± <.01
1985-86	<.01 ± <.01	0.03 ± 0.03	0.00	<.01 ± <.01	0.00	<.01 ± <.01	0.00	<.01 ± <.01
1986-87	<.01 ± <.01	<.01 ± <.01	0.00	0.01 ± 0.01	0.00	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01
Black drum								
1974-76	0.03 ± 0.02	0.03 ± 0.03	<.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.03 ± 0.01
1976-77	0.01 ± <.01	0.04 ± 0.03	0.03 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1977-78	0.03 ± 0.01	0.02 ± 0.01	0.05 ± 0.03	0.02 ± 0.01	0.04 ± 0.04	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
1978-79	0.10 ± 0.08	<.01 ± <.01	0.03 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.05 ± 0.03
1979-80	<.01 ± <.01	0.06 ± 0.06	0.02 ± 0.01	0.00	0.03 ± 0.02	0.01 ± 0.01	0.03 ± 0.01	0.02 ± 0.01
1980-81	0.10 ± 0.09	0.09 ± 0.09	0.01 ± 0.01	<.01 ± <.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.05 ± 0.03
1981-82	0.01 ± <.01	0.05 ± 0.03	0.05 ± 0.04	0.03 ± 0.02	0.01 ± 0.01	0.04 ± 0.03	0.03 ± 0.02	0.02 ± 0.01
1982-83	0.03 ± 0.03	0.02 ± 0.01	0.03 ± 0.02	<.01 ± <.01	0.02 ± 0.01	0.01 ± 0.01	0.03 ± 0.01	0.02 ± 0.01
1983-84	0.03 ± 0.02	0.03 ± 0.02	0.02 ± 0.01	0.03 ± 0.03	0.03 ± 0.03	<.01 ± <.01	0.04 ± 0.03	0.03 ± 0.01
1984-85	<.01 ± <.01	0.02 ± 0.01	0.04 ± 0.02	0.00	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01
1985-86	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.02	<.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01
1986-87	<.01 ± <.01	<.01 ± <.01	0.02 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01
Gafftopsail catfish								
1974-76	<.01 ± <.01	0.03 ± 0.03	0.03 ± 0.01	0.00	0.06 ± 0.06	0.00	0.00	0.01 ± <.01
1976-77	0.02 ± 0.02	0.01 ± 0.01	0.04 ± 0.03	<.01 ± <.01	0.03 ± 0.02	0.00	0.00	0.01 ± <.01
1977-78	0.01 ± <.01	0.03 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.00	0.00	0.01 ± <.01
1978-79	0.05 ± 0.04	<.01 ± <.01	0.01 ± 0.01	0.04 ± 0.03	0.02 ± 0.01	0.00	0.00	0.03 ± 0.01
1979-80	0.00	0.00	0.01 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.00	0.00	<.01 ± <.01
1980-81	0.00	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.00	<.01 ± <.01
1981-82	0.00	<.01 ± <.01	0.00	0.01 ± 0.01	0.00	0.00	0.00	<.01 ± <.01
1982-83	0.00	0.00	0.03 ± 0.03	<.01 ± <.01	0.02 ± 0.01	<.01 ± <.01	0.00	0.01 ± <.01
1983-84	<.01 ± <.01	0.00	0.02 ± 0.02	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1984-85	0.00	0.01 ± <.01	0.01 ± 0.01	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1985-86	<.01 ± <.01	0.01 ± 0.01	0.00	<.01 ± <.01	0.00	0.00	0.00	<.01 ± <.01
1986-87	<.01 ± <.01	0.00	0.02 ± 0.02	0.00	<.01 ± <.01	0.00	0.00	<.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	
Red drum								
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 ± 0.01	0.01 ± 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 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
1978-79	0.01 ± 0.01	0.05 ± 0.04	0.38 ± 0.19	0.04 ± 0.02	0.01 ± 0.01	<0.01 ± 0.01	0.02 ± 0.01	0.04 ± 0.01
1979-80	<0.01 ± 0.01	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	<0.01 ± 0.01	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	<0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
1983-84	0.01 ± 0.01	0.05 ± 0.04	0.18 ± 0.14	0.07 ± 0.07	<0.01 ± 0.01	<0.01 ± 0.01	0.06 ± 0.03	0.03 ± 0.01
1984-85	<0.01 ± 0.01	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	<0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.01	0.02 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01
1986-87	0.01 ± 0.01	0.03 ± 0.03	0.04 ± 0.02	0.06 ± 0.04	0.04 ± 0.02	0.02 ± 0.01	0.04 ± 0.01	0.03 ± 0.01
Sand seatrout								
1974-76	0.11 ± 0.08	<0.01 ± 0.01	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	<0.01 ± 0.01	0.00	0.00	0.46 ± 0.34	0.00	<0.01 ± 0.01	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	<0.01 ± 0.01	0.00	<0.01 ± 0.01	0.04 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.01
1980-81	<0.01 ± 0.01	0.00	0.00	0.00	0.15 ± 0.11	<0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1981-82	0.00	0.02 ± 0.02	<0.01 ± 0.01	0.09 ± 0.09	0.10 ± 0.06	<0.01 ± 0.01	0.03 ± 0.02	0.02 ± 0.01
1982-83	0.00	0.00	<0.01 ± 0.01	0.02 ± 0.02	0.04 ± 0.03	<0.01 ± 0.01	<0.01 ± 0.01	0.01 ± 0.01
1983-84	0.12 ± 0.12	0.00	<0.01 ± 0.01	0.07 ± 0.07	0.00	0.00	0.00	0.06 ± 0.06
1984-85	<0.01 ± 0.01	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	<0.01 ± 0.01	0.01 ± 0.01	0.20 ± 0.15	<0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.01
1986-87	0.03 ± 0.03	0.00	0.00	0.02 ± 0.03	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01
Sheepshead								
1974-76	0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.01	0.10 ± 0.10	0.05 ± 0.04	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01
1976-77	0.01 ± 0.01	0.01 ± 0.01	<0.01 ± 0.01	0.02 ± 0.02	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
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	<0.01 ± 0.01	0.03 ± 0.02	<0.01 ± 0.01	0.00	0.04 ± 0.03	<0.01 ± 0.01	0.12 ± 0.09	0.03 ± 0.01
1980-81	0.01 ± 0.00	0.13 ± 0.12	0.01 ± 0.01	<0.01 ± 0.01	0.24 ± 0.22	0.01 ± 0.01	0.03 ± 0.02	0.04 ± 0.02
1981-82	<0.01 ± 0.01	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 ± 0.01	0.07 ± 0.07	0.01 ± 0.01	0.02 ± 0.02	<0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.02	0.02 ± 0.01
1984-85	<0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.02	<0.01 ± 0.01	0.00	0.02 ± 0.02	0.02 ± 0.01
1985-86	<0.01 ± 0.01	0.01 ± 0.01	0.05 ± 0.04	0.04 ± 0.03	<0.01 ± 0.01	<0.01 ± 0.01	0.06 ± 0.04	0.02 ± 0.01
1986-87	<0.01 ± 0.01	<0.01 ± 0.01	0.01 ± 0.01	0.06 ± 0.03	<0.01 ± 0.01	<0.01 ± 0.01	0.00	0.01 ± 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	
Southern flounder								
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	0.00	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
1986-87	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	<0.01 ± <0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
Spotted seatrout								
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	0.10 ± 0.04
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	0.20 ± 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	0.13 ± 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	0.19 ± 0.05
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	0.13 ± 0.03
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	0.11 ± 0.07
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	0.09 ± 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
1986-87	0.09 ± 0.06	0.03 ± 0.02	0.25 ± 0.12	0.13 ± 0.06	0.20 ± 0.14	0.17 ± 0.06	0.15 ± 0.05	0.12 ± 0.03
Other species								
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	0.02 ± 0.01
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	0.06 ± 0.04
1983-84	0.04 ± 0.04	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 ± <0.01	0.07	0.21	0.01	0.00	0.02	0.00	0.02
1986-87	0.05 ± 0.04	<0.01	0.02 ± 0.01	0.01	0.01	<0.01	0.04	0.02

Table D.12. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
All species combined ^a								
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
1986-87	0.22 ± 0.11	0.08 ± 0.06	0.40 ± 0.17	0.31 ± 0.12	0.27 ± 0.18	0.23 ± 0.09	0.27 ± 0.08	0.23 ± 0.05

^aDue 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 (1974-1987).

Species Year	Bay system							Upper			Lower		
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide					
Atlantic croaker													
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 0.01	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 0.01					
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 0.02					
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					
1986-87	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01					
Black drum													
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					
1986-87	0.01 \pm <.01	0.01 \pm 0.01	0.00	0.02 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm <.01					
Gafftopsail catfish													
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 \pm 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	0.00	0.00	<.01 \pm 0.00					
1986-87	0.00	<.01 \pm <.01	0.00	0.01 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01					

Table D.13. (Cont'd.)

Species Year	Bay system							Upper Laguna Madre		Lower Laguna Madre		Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Upper Laguna Madre	Lower Laguna Madre			
Red drum												
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	0.01 ± 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	0.01	0.02	0.02		
1977-78	0.02	0.03	0.09	0.07	0.02	0.01	0.04	0.01	0.04	0.03		
1978-79	0.01	0.04	0.28	0.03	0.01	<0.01	0.03	<0.01	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	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	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	0.04 ± 0.02	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 ± <0.01	0.01 ± <0.01	0.07 ± 0.03	0.07 ± 0.03	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	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	<0.01 ± <0.01	0.04 ± 0.03	<0.01 ± <0.01	0.04 ± 0.03	0.04 ± 0.02		
1985-86	0.01 ± <0.01	0.04 ± 0.02	0.06 ± 0.04	0.02 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.05 ± 0.02	0.01 ± 0.01	0.05 ± 0.02	0.03 ± 0.01		
1986-87	0.06 ± 0.05	0.01 ± 0.01	0.01 ± 0.01	0.10 ± 0.06	0.05 ± 0.02	0.02 ± 0.01	0.06 ± 0.02	0.02 ± 0.01	0.06 ± 0.02	0.05 ± 0.02		
Sand seatrout												
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	0.01 ± 0.01	0.00	0.20 ± 0.18		
1976-77	0.02	<0.01	0.00	0.00	0.76	0.00	<0.01	0.00	<0.01	0.06		
1977-78	0.13	0.05	0.01	0.02	0.10	0.00	0.02	0.00	0.02	0.06		
1978-79	0.51	0.00	0.00	0.12	0.03	0.02	0.02	0.02	0.02	0.20		
1979-80	0.01 ± 0.01	0.00	0.00	0.00	0.10 ± 0.10	<0.01 ± <0.01	0.00	0.01 ± 0.01	0.00	0.01 ± 0.01		
1980-81	0.03 ± 0.02	0.05 ± 0.05	<0.01 ± <0.01	0.01 ± 0.01	0.04 ± 0.04	0.00	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01		
1981-82	0.03 ± 0.02	<0.01 ± <0.01	0.03 ± 0.02	0.07 ± 0.06	0.14 ± 0.10	0.01 ± 0.01	0.04 ± 0.02	0.04 ± 0.02	0.04 ± 0.02	0.04 ± 0.02		
1982-83	0.01 ± 0.01	0.03 ± 0.03	0.00	0.01 ± 0.01	0.50 ± 0.24	<0.01 ± <0.01	0.03 ± 0.02	0.03 ± 0.02	0.03 ± 0.02	0.09 ± 0.03		
1983-84	0.00	<0.01 ± <0.01	0.00	0.00	0.02 ± 0.02	0.00	0.01 ± <0.01	0.01 ± <0.01	0.01 ± <0.01	<0.01 ± <0.01		
1984-85	0.09 ± 0.07	<0.01 ± <0.01	0.00	0.00	<0.01 ± <0.01	0.04 ± 0.04	0.02 ± 0.01	0.01 ± <0.01	0.01 ± <0.01	0.03 ± 0.02		
1985-86	0.00	<0.01 ± <0.01	0.00	0.01 ± 0.01	0.19 ± 0.12	0.02 ± 0.01	0.01 ± <0.01	0.01 ± <0.01	0.01 ± <0.01	0.04 ± 0.02		
1986-87	0.02 ± 0.02	<0.01 ± <0.01	0.00	0.02 ± 0.02	0.00	<0.01 ± <0.01	0.00	<0.01 ± <0.01	<0.01 ± <0.01	0.01 ± 0.01		
Sheepshead												
1974-76	0.03 ± 0.02	0.00	0.03 ± 0.01	0.28 ± 0.24	<0.01 ± <0.01	0.05 ± 0.04	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.05 ± 0.03		
1976-77	0.02	0.02	<0.01	0.03	0.04	0.01	0.01	0.01	0.01	0.02		
1977-78	0.05	0.05	0.05	0.09	0.02	0.02	0.06	0.06	0.06	0.05		
1978-79	0.03	0.08	0.03	0.06	0.03	0.03	0.18	0.18	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	0.24 ± 0.19	0.24 ± 0.19	0.13 ± 0.09		
1980-81	0.05 ± 0.04	0.02 ± 0.02	<0.01 ± <0.01	0.81 ± 0.62	0.38 ± 0.25	0.02 ± 0.01	0.04 ± 0.03	0.04 ± 0.03	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	0.23 ± 0.13	0.23 ± 0.13	0.08 ± 0.03		
1982-83	0.01 ± <0.01	0.17 ± 0.11	0.11 ± 0.05	0.21 ± 0.16	0.51 ± 0.31	0.01 ± 0.04	0.12 ± 0.08	0.12 ± 0.08	0.12 ± 0.08	0.15 ± 0.05		
1983-84	0.01 ± <0.01	0.16 ± 0.16	0.01 ± 0.01	0.26 ± 0.18	0.02 ± 0.01	0.01 ± 0.01	0.10 ± 0.06	0.10 ± 0.06	0.10 ± 0.06	0.05 ± 0.02		
1984-85	<0.01 ± <0.01	0.03 ± 0.02	0.00	0.51 ± 0.40	0.02 ± 0.02	<0.01 ± <0.01	0.02 ± 0.02	0.02 ± 0.02	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	<0.01 ± <0.01	<0.01 ± <0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01		
1986-87	0.01 ± 0.01	0.05 ± 0.04	0.01 ± 0.01	0.26 ± 0.16	0.04 ± 0.03	0.00	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.05 ± 0.03		

Table D.13. (Cont'd.)

Species Year	Bay system							Upper		Lower		Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide		
Southern flounder												
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	<.01 ± <.01	0.06 ± 0.02			
1976-77	0.01	0.14	0.01	0.01	0.01	<.01	<.01	0.02	0.02			
1977-78	0.02	0.04	0.02	0.01	0.02	0.01	0.01	0.02	0.02			
1978-79	0.02	0.07	<.01	0.05	0.02	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	0.01 ± 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	0.01 ± <.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	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 ± 0.03	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	<.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	0.04 ± 0.02	0.02 ± 0.02			
1985-86	0.04 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.04 ± 0.03	0.02 ± 0.01	0.05 ± 0.02	0.05 ± 0.02	0.03 ± 0.01			
1986-87	0.02 ± 0.01	<.01 ± <.01	0.00	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.02 ± <.01			
Spotted seatrout												
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 ± 0.28	0.42 ± 0.13			
1976-77	0.41	0.09	0.02	0.44	0.20	0.18	0.90	0.90	0.44			
1977-78	0.04	0.12	0.10	0.33	0.42	0.19	0.24	0.24	0.16			
1978-79	0.06	0.22	0.03	0.55	0.13	0.17	0.29	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	0.46 ± 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	0.29 ± 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	0.36 ± 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	0.42 ± 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	0.23 ± 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	0.21 ± 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	0.17 ± 0.07	0.15 ± 0.04			
1986-87	0.13 ± 0.08	0.22 ± 0.17	0.22 ± 0.12	0.18 ± 0.10	0.18 ± 0.08	0.20 ± 0.09	0.26 ± 0.09	0.26 ± 0.09	0.19 ± 0.05			
Other species												
1974-76	0.04 ± 0.03	0.07 ± 0.07	0.02 ± 0.01	0.00	<.01 ± <.01	0.01 ± 0.01	0.00	0.00	0.02 ± 0.01			
1976-77	<.01	0.01	0.01	<.01	0.03	0.00	0.08	0.08	0.03			
1977-78	0.20	0.01	0.01	0.01	0.04	0.00	0.01	0.01	0.07			
1978-79	0.06	<.01	<.01	0.01	0.12	0.00	<.01	<.01	0.04			
1979-80	0.00	0.00	0.00	0.00	1.12 ± 1.12	<.01 ± <.01	0.02 ± 0.02	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 ± 0.03	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	0.01 ± 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	<.01 ± <.01	0.04 ± 0.02	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	0.02 ± 0.02	0.05			
1984-85	0.02	<.01 ± <.01	0.00	<.01	0.04	0.00	0.01	0.01	0.03 ± 0.01			
1985-86	0.24	<.01 ± <.01	0.00	0.01 ± <.01	0.03	0.04	0.04	0.04	0.06			
1986-87	0.02	0.01	0.04 ± 0.04	0.18 ± 0.18	0.01	0.06	0.05	0.05	0.05			

Table D.13. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
All species combined ^a								
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	0.50 ± 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
1986-87	0.28 ± 0.17	0.51 ± 0.20	0.28 ± 0.15	0.77 ± 0.44	0.51 ± 0.12	0.33 ± 0.15	0.43 ± 0.15	0.40 ± 0.10

^aDue 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 (1974-1987). 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	
Atlantic croaker								
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 0.04	0.16 \pm 0.01	0.17 \pm 0.01
1986-87	0.21 \pm 0.02	0.14 \pm 0.04	0.14 \pm 0.04	0.29 \pm 0.01	0.18 \pm 0.02	0.27 \pm 0.01	0.22 \pm 0.02	0.21 \pm 0.01
Black drum								
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 1.50	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 0.45	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
1986-87	1.79 \pm 0.57	1.59 \pm 0.58	1.09 \pm 0.28	1.27 \pm 0.37	0.74 \pm 0.10	1.25 \pm 0.34	0.99 \pm 0.38	1.53 \pm 0.50
Gafftopsail catfish								
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		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			1.49 \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	1.34 \pm 0.19			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	2.42 \pm 0.87	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 0.12	1.02 \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 0.24	0.35 \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 <.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 0.17	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 0.01	1.15 \pm 0.16
1986-87	0.89 \pm 0.16	0.98 \pm 0.07	1.06 \pm 0.10	1.46 \pm 0.13	1.00 \pm 0.12		0.27 \pm 0.10	1.01 \pm 0.12

Table D.14. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum								
1974-76	0.79 ± 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	0.67 ± 0.20	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
1986-87	2.08 ± 0.14	1.61 ± 0.05	1.52 ± 0.05	2.04 ± 0.09	1.89 ± 0.08	1.76 ± 0.11	2.00 ± 0.04	1.90 ± 0.08
Sand seatrout								
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 ± 0.05	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
1986-87	0.25 ± 0.01	0.26 ± 0.03	0.24 ± 0.02	0.24 ± 0.02	0.24 ± 0.01	0.30 ± 0.03	0.25 ± 0.01	0.25 ± 0.01
Sheepshead								
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
1986-87	0.95 ± 0.05	0.84 ± 0.06	0.94 ± 0.01	0.97 ± 0.06	1.01 ± 0.07	1.52 ± 0.28	0.94 ± 0.13	0.95 ± 0.06

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	0.69 ± 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	0.67 ± 0.12	0.73 ± 0.08	0.87 ± 0.26	0.66 ± 0.09
1978-79	0.66 ± 0.24	0.43 ± 0.29	0.59 ± 0.22	0.78 ± 0.30	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	0.67 ± 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
1986-87	0.56 ± 0.02	0.61 ± 0.03	0.71 ± 0.06	0.64 ± 0.05	0.63 ± 0.03	0.74 ± 0.03	0.78 ± 0.02	0.64 ± 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	0.52 ± 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 ± 0.02
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
1986-87	0.80 ± 0.03	0.67 ± 0.02	0.65 ± 0.01	0.69 ± 0.02	0.76 ± 0.02	0.73 ± 0.02	0.78 ± 0.01	0.75 ± 0.02
All species combined^a								
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 ± 0.50	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
1986-87	0.55 ± 0.05	1.06 ± 0.11	0.88 ± 0.03	0.92 ± 0.05	0.80 ± 0.05	0.81 ± 0.10	0.98 ± 0.03	0.75 ± 0.11

^aIncludes "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 (1974-1986). 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	
Atlantic croaker								
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
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
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
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
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
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
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
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
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
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
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
1986	0.22 ± 0.02	0.14 ± 0.01	0.14 ± 0.04	0.28 ± 0.01	0.18 ± 0.04	0.26 ± 0.01	0.23 ± 0.03	0.21 ± 0.01
Black drum								
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
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
1977	0.91 ± 0.48	0.47 ± 0.16	0.79 ± 0.18	0.34 ± 0.18	0.77 ± 0.44	1.22 ± 0.51	0.79 ± 0.40	0.81 ± 0.23
1978	1.22 ± 0.63	1.67 ± 1.37	1.03 ± 0.40	0.22 ± 0.08	1.26 ± 0.88	2.88 ± 2.25	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
1980	0.48 ± 0.42	0.42 ± 0.38	0.40 ± 0.16	0.38 ± 0.09	0.80 ± 0.46	0.68 ± 0.25	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
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
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
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
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
1986	1.40 ± 0.28	0.60 ± 0.11	0.89 ± 0.07	0.84 ± 0.20	0.68 ± 0.15	0.78 ± 0.06	1.45 ± 0.44	1.16 ± 0.23
Gafftopsail catfish								
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
1976	2.06 ± 0.77	1.24 ± 0.09	1.08 ± 0.16	1.52 ± 0.37	1.27 ± 0.30	1.02 ± <.01	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	1.62 ± 0.08	1.40 ± 1.00	1.33 ± 0.16
1978	1.28 ± 0.49	1.45 ± 0.53	0.88 ± 0.47	1.51 ± 0.82	1.62 ± 0.38	1.02 ± <.01	1.28 ± 0.17	1.27 ± 0.27
1979	0.72 ± 0.23	1.21 ± 0.52	1.51 ± 0.52	1.37 ± 0.27	1.17 ± 0.75	0.35 ± <.01	1.19 ± 0.21	1.32 ± 0.28
1980	1.24 ± 0.19	1.28 ± 0.45	0.67 ± 0.27	1.09 ± 0.30	0.77 ± 0.34	0.20 ± 0.05	1.28 ± 0.17	1.19 ± 0.21
1981	0.81 ± 0.31	1.37 ± 0.44	1.79 ± 0.05	0.87 ± 0.38	0.77 ± 0.34	1.10 ± 0.18	0.92 ± 0.16	1.28 ± 0.17
1982	0.72 ± 0.40	0.96 ± 0.22	1.72 ± 0.16	1.00 ± 0.05	1.36 ± 0.10	0.24	1.06 ± 0.13	1.06 ± 0.13
1983	0.38	1.03 ± 0.13	1.04 ± 0.05	1.80 ± 0.29	1.70 ± 0.13	0.24	1.07 ± 0.18	0.92 ± 0.16
1984	1.07 ± 0.22	1.16 ± 0.14	1.24 ± 0.13	0.58 ± 0.18	1.06 ± 0.34	0.24	1.07 ± 0.18	1.06 ± 0.13
1985	0.39 ± 0.03	1.02 ± 0.08	0.89 ± 0.15	1.52 ± 0.18	1.06 ± 0.34	0.24	0.77 ± 0.09	1.07 ± 0.18
1986	0.97 ± 0.14	0.91 ± 0.08	0.91 ± 0.12	1.31 ± 0.22	0.87 ± 0.17	0.24	0.98 ± 0.13	0.77 ± 0.09

Table D.15. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum								
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	1.30 ± 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 ± 0.08	1.65 ± 0.03	1.84 ± 0.06	1.82 ± 0.12
1986	1.85 ± 0.16	1.50 ± 0.06	1.56 ± 0.07	2.01 ± 0.17	1.89 ± 0.13	1.62 ± 0.05	1.97 ± 0.05	1.77 ± 0.09
Sand seatrout								
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 ± 0.07	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
1986	0.24 ± 0.01	0.21 ± 0.02	0.23 ± 0.01	0.24 ± 0.03	0.25 ± 0.02	0.25 ± 0.03	0.25 ± 0.01	0.24 ± 0.02
Sheepshead								
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
1986	1.01 ± 0.09	0.89 ± 0.06	0.88 ± 0.20	0.97 ± 0.12	1.12 ± 0.33	1.83 ± 0.44	0.97 ± 0.23	1.00 ± 0.11

Table D.15. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
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	0.52 ± 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		
1986	0.54 ± 0.02	0.57 ± 0.04	0.64 ± 0.04	0.57 ± 0.06	0.73 ± 0.05	0.73 ± 0.04	0.79 ± 0.02	0.62 ± 0.03		
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	0.39 ± 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 ± 0.09		
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 ± 0.39	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		
1986	0.81 ± 0.03	0.65 ± 0.02	0.68 ± 0.02	0.74 ± 0.03	0.74 ± 0.03	0.71 ± 0.02	0.78 ± 0.02	0.76 ± 0.03		
All species combined ^a										
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	0.56 ± 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		
1986	0.46 ± 0.03	0.91 ± 0.15	0.96 ± 0.05	0.98 ± 0.13	0.84 ± 0.08	0.77 ± 0.03	1.01 ± 0.03	0.64 ± 0.13		

^aIncludes "other" species.

Table D.16. Mean weights of fishes (kg/fish) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekdays (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	Coastwide
Atlantic croaker								
1974-75	0.19 \pm 0.04	0.35 \pm <.01	0.22	0.22 \pm <.01	0.46 \pm <.01	0.36 \pm 0.15	0.39 \pm <.01	0.26 \pm 0.11
1976								
1977								
1978	0.15 \pm <.01		0.42 \pm 0.08		0.10 \pm <.01	0.26 \pm 0.13		0.24 \pm 0.08
1979	0.23 \pm 0.20	0.16 \pm 0.05	0.25 \pm 0.17	0.25 \pm 0.04	0.32 \pm 0.15	0.32 \pm 0.13	0.20 \pm 0.04	0.24 \pm 0.08
1980	0.19 \pm 0.04	0.17 \pm 0.02	0.23 \pm 0.17	0.25 \pm 0.02	0.36 \pm 0.24	0.24 \pm 0.13	0.33 \pm 0.04	0.29 \pm 0.16
1981	0.21 \pm 0.06	0.17 \pm 0.02	0.21 \pm 0.07	0.27 \pm 0.15	0.36 \pm 0.12	0.29 \pm 0.10	0.20 \pm 0.05	0.26 \pm 0.08
1982	0.24 \pm 0.03	0.18 \pm 0.02	0.17 \pm 0.02	0.37 \pm 0.02	0.33 \pm 0.01	0.32 \pm 0.02	0.23 \pm 0.02	0.26 \pm 0.02
1983	0.22 \pm 0.03	0.16 \pm 0.01	0.21 \pm 0.14	0.23 \pm 0.05	0.21 \pm 0.02	0.21 \pm 0.01	0.13 \pm 0.01	0.22 \pm 0.03
1984	0.14 \pm 0.01	0.15 \pm 0.01	0.40 \pm 0.08	0.24 \pm 0.01	0.18 \pm 0.01	0.23 \pm 0.01	0.16 \pm 0.01	0.15 \pm 0.01
1985	0.20 \pm 0.02	0.14 \pm 0.04		0.30 \pm 0.02	0.18 \pm 0.01	0.27 \pm 0.02	0.21 \pm 0.03	0.20 \pm 0.02
1986								
Black drum								
1974-75		0.71 \pm <.01	0.85 \pm 0.03	0.50 \pm 0.04	1.29 \pm 2.56	0.69 \pm 0.02	1.08 \pm 1.11	0.91 \pm 0.54
1976								
1977								
1978								
1979	1.60 \pm <.01	0.15 \pm <.01	0.55 \pm <.01	0.50 \pm 0.11	0.47 \pm 0.22	0.97 \pm 0.22	0.58 \pm 0.54	0.68 \pm 0.30
1980	0.65 \pm 0.21	0.42 \pm 0.21	0.45 \pm 0.06	0.47 \pm 0.07	0.64 \pm 0.38	1.10 \pm 0.36	1.45 \pm 1.47	0.56 \pm 0.13
1981	0.53 \pm 0.24	0.58 \pm 0.43	0.76 \pm 0.53	0.32 \pm 0.16	0.64 \pm 0.42	0.80 \pm 0.25	1.70 \pm 0.71	0.63 \pm 0.15
1982	0.79 \pm 0.42	0.36 \pm 0.08	0.94 \pm 0.16	0.90 \pm 0.08	0.89 \pm 0.14	0.76 \pm 0.10	0.77 \pm 0.47	0.65 \pm 0.15
1983	0.93 \pm 0.22	0.78 \pm 0.14	0.87 \pm 0.12	0.94 \pm 0.22	0.55 \pm 0.12	0.71 \pm 0.22	1.24 \pm 0.47	0.88 \pm 0.18
1984	1.85 \pm 0.26	0.66 \pm 0.13	0.84 \pm 0.18	0.70 \pm 0.07	0.74 \pm 0.10	0.57 \pm 0.08	0.90 \pm 0.57	1.31 \pm 0.21
1985	0.52 \pm 0.09	0.87 \pm 0.21	0.78 \pm 0.19	0.70 \pm 0.07	0.74 \pm 0.10	0.57 \pm 0.08	0.60 \pm 0.33	0.65 \pm 0.12
1986	0.95 \pm 0.23	0.56 \pm 0.06	3.53 \pm 2.86	4.88 \pm 4.06	0.62 \pm 0.11	0.77 \pm 0.08	0.69 \pm 0.10	0.86 \pm 0.25
Gafftopsail catfish								
1974-75	1.47 \pm 0.07		1.38 \pm <.01	0.55 \pm <.01				1.06 \pm 0.55
1976								
1977								
1978								
1979								
1980	0.95 \pm <.01	1.14 \pm 0.59	0.80 \pm <.01	0.39 \pm 0.09	1.43 \pm 0.56	0.19 \pm <.01	0.23 \pm <.01	0.90 \pm 0.08
1981	1.11 \pm 0.46	1.50 \pm 0.40	1.48 \pm 0.44	0.95 \pm 0.19	1.06 \pm 0.48	0.20	0.60	1.28 \pm 0.31
1982	1.52 \pm 0.48	0.84 \pm 0.08	1.03 \pm 0.13	1.13 \pm 0.18	1.44 \pm 0.12	1.68	0.78 \pm 0.11	1.14 \pm 0.27
1983	0.73 \pm 0.10	1.36 \pm 0.23	1.14 \pm 0.19	1.20 \pm 0.23	1.36 \pm 0.17	0.37	0.18	1.19 \pm 0.13
1984	0.99 \pm 0.15	1.00 \pm 0.11	0.71 \pm 0.02	1.64 \pm 0.30	0.66 \pm 0.13			1.10 \pm 0.18
1985	1.31 \pm 0.16	0.92 \pm 0.08	0.81 \pm 0.07	1.47 \pm 0.25	0.97 \pm 0.14			1.23 \pm 0.19
1986	0.20 \pm 0.04		0.92 \pm 0.13				0.27 \pm 0.10	0.93 \pm 0.12

Table D.16. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum								
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 ± 0.50	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 ± 0.22	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
1986	2.33 ± 0.24	1.63 ± 0.07	1.40 ± 0.06	2.12 ± 0.17	1.83 ± 0.14	1.65 ± 0.13	1.94 ± 0.08	1.91 ± 0.11
Sand seatrout								
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	0.28 ± 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	0.23 ± 0.03
1986	0.26 ± 0.01	0.36 ± 0.04	0.27 ± 0.08	0.21 ± 0.01	0.23 ± 0.01	0.35 ± 0.02	0.22 ± 0.02	0.25 ± 0.01
Sheepshead								
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		0.82 ± 0.40	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	0.75 ± 0.18	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	0.91 ± 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	0.80 ± 0.07	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 ± 0.11	1.50 ± 0.20	0.79 ± 0.09	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	1.50 ± 0.20	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	1.59 ± 0.53	0.73 ± 0.18	1.04 ± 0.07
1986	0.96 ± 0.06	0.88 ± 0.05	1.00 ± 0.12	0.85 ± 0.20	1.40 ± 0.43	1.03	0.85 ± 0.14	0.93 ± 0.08

Table D.16. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
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	0.70 ± 0.06		0.76 ± 0.48			0.68 ± 0.46	0.83 ± 0.01	0.75 ± 0.27
1978	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
1979	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
1980	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
1981	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
1982	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
1983	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
1984	0.61 ± 0.04	0.71 ± 0.04	0.84 ± 0.11	0.70 ± 0.06	0.56 ± 0.03	0.76 ± 0.06	0.77 ± 0.03	0.68 ± 0.04
1985								
1986								
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
1986	0.81 ± 0.06	0.68 ± 0.03	0.65 ± 0.01	0.70 ± 0.04	0.72 ± 0.03	0.69 ± 0.03	0.77 ± 0.02	0.75 ± 0.04
All species combined ^a								
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	0.81 ± 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	0.77 ± 0.08	0.96 ± 0.13	0.90 ± 0.12	0.63 ± 0.08	0.96 ± 0.07	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
1986	0.58 ± 0.09	0.84 ± 0.04	0.81 ± 0.04	0.90 ± 0.10	0.70 ± 0.06	0.79 ± 0.08	0.92 ± 0.04	0.71 ± 0.08

^a includes "other" species.

Table D.17. Mean weights of fishes (kg/fish) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay systems (1974-1987). 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	
Atlantic croaker								
1974-76	0.16 \pm 0.06		0.34 \pm <0.01	0.14 \pm <0.01	0.25 \pm 0.07	0.31 \pm 0.05	0.21 \pm 0.03	0.18 \pm 0.04
1976-77	0.26 \pm 0.12	0.16 \pm <0.01	0.28 \pm 0.03		0.22 \pm 0.02	0.18 \pm 0.01	0.30 \pm 0.11	0.24 \pm 0.06
1977-78	0.25 \pm 0.02	0.26 \pm 0.03	0.22 \pm <0.01		0.29 \pm 0.05	0.34 \pm 0.14	0.26 \pm 0.08	0.28 \pm 0.03
1978-79	0.15 \pm 0.07					0.22 \pm <0.01	0.19 \pm 0.09	0.16 \pm 0.05
1979-80	0.10 \pm <0.01	0.13 \pm <0.01		0.11 \pm <0.01	0.18 \pm 0.01	0.29 \pm 0.03	0.21 \pm <0.01	0.14 \pm 0.09
1980-81	1.00 \pm <0.01	0.07 \pm <0.01			0.26 \pm 0.05	0.23 \pm 0.12	0.21 \pm 0.06	0.23 \pm 0.09
1981-82	0.25 \pm 0.14	0.14 \pm <0.01			0.21 \pm 0.11	0.30 \pm 0.02	0.38 \pm 0.18	0.28 \pm 0.04
1982-83	0.28 \pm 0.06	0.20 \pm 0.08	0.50 \pm 0.00		0.22 \pm 0.02	0.21 \pm 0.03	0.13 \pm 0.12	0.20 \pm 0.09
1983-84	0.09 \pm 0.04	0.20 \pm 0.08		0.31				0.20 \pm 0.29
1984-85	0.13	0.11 \pm 0.01			0.23	0.17 \pm 0.03	0.17 \pm 0.01	0.29 \pm 0.29
1985-86	0.18	0.14	0.20 \pm 0.03		0.50	0.18 \pm 0.01		0.14 \pm 0.03
1986-87	0.17 \pm 0.01		0.28			0.38 \pm 0.02	0.09	0.17 \pm 0.06
								0.30 \pm 0.14
Black drum								
1974-76	2.42 \pm 4.42	0.59 \pm 0.26	2.05 \pm 3.04	1.06 \pm 0.36	3.62 \pm 8.66	2.16 \pm 3.72	1.17 \pm 0.41	2.14 \pm 1.65
1976-77	1.59 \pm 0.90	0.43 \pm 0.17	14.65 \pm 6.49	1.39 \pm 0.87	9.84 \pm 1.96	4.68 \pm 1.91	5.60 \pm 7.97	6.29 \pm 4.01
1977-78	1.98 \pm 3.32	1.95 \pm 5.38	1.26 \pm 1.40	0.84 \pm 0.65	6.98 \pm 2.87	1.33 \pm 1.35	5.95 \pm 6.65	3.27 \pm 2.45
1978-79	6.84 \pm 14.25	0.45 \pm <0.1	7.32 \pm 7.74	0.54 \pm 0.01	3.48 \pm 4.00	2.32 \pm 2.68	9.67 \pm 10.55	6.54 \pm 5.54
1979-80	0.60 \pm <0.01	0.52 \pm 0.57	4.20 \pm 8.95		5.86 \pm 9.71	0.90 \pm 0.04	0.49 \pm 0.73	3.22 \pm 4.32
1980-81	2.54 \pm 5.08	0.20 \pm 0.17	0.66 \pm 0.41	0.66 \pm <0.01	0.93 \pm 0.21	0.57 \pm 0.05	0.67 \pm 0.02	0.90 \pm 1.03
1981-82	1.18 \pm 0.10	0.62 \pm 0.17	0.65 \pm 0.41	2.00 \pm 4.00	0.49 \pm 0.30	1.08 \pm 0.89	0.88 \pm 0.51	0.85 \pm 0.38
1982-83	0.62	0.72 \pm 0.36	0.91 \pm 0.04	0.75 \pm 0.10	7.72 \pm 3.69	2.88 \pm 3.72	1.18 \pm 0.93	3.21 \pm 3.25
1983-84	6.30 \pm 2.49	1.87 \pm 1.23	0.77 \pm 0.07	0.40	1.34		0.77 \pm 0.53	3.76 \pm 1.67
1984-85	3.97	5.96 \pm 1.85	0.34 \pm 0.11		0.98 \pm 0.07	0.33 \pm 0.05	5.18 \pm 3.70	3.39 \pm 1.47
1985-86	7.61 \pm 0.12	8.06 \pm 2.84	0.70 \pm 0.65	1.38 \pm 0.40	2.38 \pm 0.27	0.95 \pm 0.06	0.46 \pm 0.11	5.22 \pm 0.62
1986-87	7.43 \pm 2.20	11.37 \pm 1.40	1.14 \pm 0.78	0.84 \pm 0.03	1.03 \pm 0.27	2.85 \pm 1.68	2.16 \pm 0.08	2.79 \pm 1.29
Gafftopsail catfish								
1974-76	1.78 \pm 0.81	1.79 \pm <0.01	1.21 \pm 0.30		1.26 \pm 0.34			1.29 \pm 0.31
1976-77	1.73 \pm 0.15	1.67 \pm <0.01	1.41 \pm 0.29	1.35 \pm 0.25	0.97 \pm 0.77			1.41 \pm 0.36
1977-78	1.31 \pm 0.17	1.26 \pm 0.36	1.21 \pm <0.01	0.83 \pm 1.03	1.50 \pm 0.18			1.22 \pm 0.16
1978-79	1.25 \pm 0.71	1.56 \pm <0.01	0.85 \pm 0.21	1.22 \pm 0.27	1.28 \pm 1.06			1.22 \pm 0.33
1979-80			1.34 \pm 0.72	2.13 \pm <0.01	1.59 \pm 0.07			1.43 \pm 0.46
1980-81		0.70 \pm <0.01	1.08 \pm 0.34	2.21 \pm <0.01	1.34 \pm <0.01			1.15 \pm 0.33
1981-82				1.29 \pm 0.56				1.33 \pm 0.56
1982-83					1.65 \pm 0.14			1.65 \pm 0.14
1983-84	1.11	1.84	1.57 \pm 0.05		1.44			1.29 \pm 0.11
1984-85		0.91 \pm 0.19	0.89		0.88			0.90 \pm 0.37
1985-86	0.89 \pm 0.09	1.46		1.82				1.04 \pm 0.45
1986-87	0.80	1.53	1.30 \pm 0.18		1.70			1.08 \pm 0.89

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	1.56 ± 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
1986-87	1.99 ± 0.33	1.92 ± 0.31	1.83 ± 0.14	2.08 ± 0.06	1.99 ± 0.11	2.00 ± 0.20	2.16 ± 0.08	2.02 ± 0.16
Sand seatrout								
1974-76	0.33 ± 0.15		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		0.26 ± 0.03	0.76 ± 0.31	0.80 ± <0.01	0.29 ± 0.01	0.38 ± 0.34
1978-79	0.30 ± 0.08			0.25 ± 0.17	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		0.40 ± <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		0.31 ± 0.07	0.39 ± 0.08	0.40 ± 0.04	0.32 ± 0.04
1982-83		0.49	0.38	0.50	0.35 ± 0.13	0.30 ± 0.10	0.45	0.35 ± 0.09
1983-84	0.12	0.36 ± 0.07					0.40	0.14 ± 0.14
1984-85		0.38	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	0.26	0.38	0.48	0.37 ± 0.02		0.48 ± 0.06	0.32	0.32 ± 0.01
1986-87	0.26						0.27 ± 0.03	0.28 ± 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 ± 0.20	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	0.54 ± 0.12	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	0.76 ± 0.59	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 ± 0.48	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
1986-87	0.75 ± 0.20	1.08 ± 0.20	1.11 ± 0.36	1.01 ± 0.04	0.96 ± 0.54	1.95 ± 0.15	1.01 ± 0.26	1.00 ± 0.09

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 ± <0.01	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	0.37 ± 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		0.72	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
1986-87	0.40 ± 0.09	0.45 ± 0.03	0.55 ± 0.17	0.49 ± 0.17	0.64 ± 0.07	0.73 ± 0.04	0.83 ± 0.05	0.55 ± 0.07
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 ± 0.08	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 ± 0.16	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
1986-87	0.75 ± 0.06	0.68 ± 0.06	0.60 ± 0.02	0.07 ± 0.04	0.81 ± 0.03	0.77 ± 0.05	0.83 ± 0.07	0.76 ± 0.05
All species combined ^a								
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
1986-87	1.16 ± 0.38	2.18 ± 0.70	0.85 ± 0.07	0.87 ± 0.12	1.01 ± 0.06	0.92 ± 0.08	0.99 ± 0.18	1.06 ± 0.08

^aincludes "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 (1974-1987). 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	
Atlantic croaker								
1974-76	0.21 \pm 0.03		0.31 \pm 0.03		0.31 \pm <.01	0.24 \pm <.01	0.34 \pm <.01	0.22 \pm 0.05
1976-77								
1977-78		0.12 \pm <.01		0.45 \pm <.01	0.24 \pm 0.01	0.07 \pm <.01	0.52 \pm 0.30	0.18 \pm 0.09
1978-79					0.29 \pm 0.08		0.34 \pm 0.08	0.19 \pm 0.06
1979-80	0.20 \pm 0.12				0.15 \pm 0.10	0.24 \pm 0.02	0.25 \pm 0.03	0.22 \pm 0.04
1980-81	0.25 \pm 0.06			0.27 \pm 0.02	0.24 \pm 0.05	0.33 \pm 0.05	0.25 \pm 0.03	0.25 \pm 0.04
1981-82	0.17 \pm 0.02					0.31	0.29	0.09 \pm 0.09
1982-83	0.08			0.33			0.20 \pm 0.12	0.14 \pm 0.01
1983-84	0.14			0.18 \pm 0.04	0.15	0.23 \pm 0.05	0.18	0.19 \pm 0.07
1984-85		0.19		0.15	0.23 \pm 0.04	0.29	0.57	0.24 \pm 0.23
1985-86	0.11	0.16						
1986-87								
Black drum								
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	5.57 \pm 3.29
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	0.76 \pm 0.44	1.58 \pm 1.46
1980-81	7.26 \pm 5.63	0.46 \pm 0.37	15.58		0.34 \pm 0.41	0.20 \pm <.01	0.87 \pm 0.84	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	0.63 \pm 0.52	0.56 \pm 0.35
1982-83	6.64 \pm 3.83	0.55 \pm 1.27	4.55 \pm 6.80	0.61 \pm 0.26	1.24 \pm 0.38	1.32 \pm 0.42	0.67 \pm 0.20	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	0.54	1.76 \pm 0.05	0.85 \pm 0.78	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	0.85 \pm 0.78	1.73 \pm 0.47
1985-86	2.75	2.70 \pm 1.71	1.04 \pm 0.21	1.04 \pm 0.21	8.77 \pm 3.24	0.77	1.30 \pm 0.27	5.87 \pm 2.22
1986-87	0.64 \pm 0.11	5.33 \pm 2.02	1.28 \pm 0.66	1.28 \pm 0.66	2.03 \pm 0.43	1.58 \pm 0.30	0.90 \pm 0.34	1.83 \pm 0.69
Gafftopsail catfish								
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								
1980-81	1.62 \pm 1.02	1.28 \pm <.01			1.72 \pm <.01	0.15 \pm <.01		1.72 \pm <.01
1981-82		1.09 \pm <.01		1.69 \pm 0.04	1.15 \pm <.01			1.46 \pm 0.93
1982-83	2.05	2.23 \pm 0.16	0.96 \pm 0.32		1.18 \pm 0.87			1.34 \pm 0.45
1983-84		1.10		1.01 \pm 0.03	1.38 \pm 1.10			1.30 \pm 0.71
1984-85	0.53			1.83	0.88		0.08	1.05 \pm 0.53
1985-86				0.48	1.62			0.87 \pm 0.87
1986-87		1.33 \pm 0.13		1.69	1.59 \pm 0.17	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	
Red drum								
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	0.52 ± 0.21	1.16 ± 0.46	0.70 ± 0.18	0.91 ± 0.31	1.00 ± 0.21
1981-82	0.98 ± 0.08	2.79 ± 1.37	0.57 ± 0.21	0.52 ± 1.15	1.23 ± 0.36	1.06 ± 0.19	0.85 ± 0.50	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	1.53 ± 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
1986-87	1.94 ± 0.38	3.03 ± 0.58	1.99 ± 0.31	1.86 ± 0.04	2.05 ± 0.10	1.79 ± 0.09	2.32 ± 0.13	2.04 ± 0.19
Sand seatrout								
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		0.25 ± 0.00	0.29 ± 0.03	0.33 ± 0.05	0.34 ± 0.16	0.31 ± 0.04	0.33 ± 0.03
1981-82	0.34 ± 0.03		0.22 ± 0.02	0.25	0.30 ± 0.08	0.85 ± 0.05	0.31 ± 0.03	0.30 ± 0.04
1982-83	0.39	0.19 ± <.01		0.19 ± 0.03	0.28 ± 0.10		0.34 ± 0.04	0.27 ± 0.06
1983-84	0.43	0.50		0.36 ± <.01	0.51	0.40 ± 0.02	0.22 ± 0.06	0.39 ± 0.31
1984-85	0.31 ± 0.04	0.36		0.27	0.22 ± 0.01	0.35 ± <.01	0.30 ± <.01	0.33 ± 0.04
1985-86		0.36			0.22 ± 0.01	0.52 ± 0.06	0.27 ± 0.05	0.24 ± 0.02
1986-87	0.41	0.58						0.37 ± 0.36
Sheepshead								
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	0.25 ± <.01	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	0.85 ± 0.31	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	1.06 ± 0.03	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		1.12 ± 0.04	0.91 ± 0.34	1.52 ± 0.23	0.53 ± 0.03	0.83 ± 0.10
1984-85	0.23	0.86 ± 0.10	1.01	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
1986-87	0.73 ± 0.13	0.67 ± 0.12	0.61	0.96 ± 0.08	0.99 ± 0.06	0.57	0.97 ± 0.41	0.91 ± 0.09

Table D.18. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Southern flounder								
1974-76	0.67 ± 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								
1979-80								
1980-81	0.42 ± <.01		0.72 ± 0.07	0.38 ± 0.12	0.43 ± 0.14	0.93 ± 0.19	0.62 ± <.01	0.53 ± 0.12
1981-82	0.55 ± 0.24		0.45 ± <.01	0.48 ± 0.08	0.67 ± 0.20	0.81 ± 0.01	0.49 ± 0.07	0.62 ± 0.10
1982-83	0.37 ± 0.19	0.50 ± 0.22	0.89 ± 0.19	0.52 ± 0.08	0.65 ± 0.15	0.48 ± 0.05	0.55 ± 0.16	0.55 ± 0.06
1983-84	0.56 ± 0.10	0.37 ± 0.10	0.59 ± 0.12	0.35 ± 0.01	0.41 ± 0.08	0.77 ± 0.12	0.64 ± 0.19	0.69 ± 0.15
1984-85	0.54 ± 0.04	0.45 ± 0.08	0.38 ± 0.06	0.35 ± 0.05	0.26 ± 0.01	0.99 ± 0.17	0.60 ± 0.05	0.55 ± 0.09
1985-86	0.40 ± 0.01	0.46 ± 0.14	0.56	0.51 ± 0.04	0.58 ± 0.07	0.47	0.32 ± 0.02	0.50 ± 0.04
1986-87	0.53 ± 0.14	0.33 ± 0.07		0.50 ± 0.06	0.43 ± 0.05	0.72 ± 0.04	0.54 ± 0.07	0.48 ± 0.05
		0.40 ± 0.05			0.43 ± 0.08	0.74 ± 0.06	0.75 ± 0.08	0.62 ± 0.04
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								
1979-80								
1980-81	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
1981-82	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
1982-83	0.62 ± 0.18	0.60 ± 0.70	0.57 ± 0.21	0.52 ± 0.21	0.53 ± 0.50	0.49 ± 0.09	0.60 ± 0.26	0.54 ± 0.10
1983-84	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
1984-85	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
1985-86	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
1986-87	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
	0.74 ± 0.15	0.68 ± 0.05	0.59 ± 0.03	0.65 ± 0.02	0.95 ± 0.15	0.74 ± 0.03	0.79 ± 0.05	0.75 ± 0.07
All species combined ^a								
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								
1979-80								
1980-81	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
1981-82	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
1982-83	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
1983-84	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
1984-85	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
1985-86	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
1986-87	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
	0.96 ± 0.21	1.37 ± 0.29	0.62 ± 0.05	0.90 ± 0.04	1.09 ± 0.09	0.78 ± 0.07	0.99 ± 0.12	0.99 ± 0.06

^aIncludes "other" species.

Table D.19. Annual mean total lengths of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Upper Laguna Madre	Lower Laguna Madre					
Atlantic croaker											
1983-84	254 \pm 9	234 \pm 4	231 \pm 6	295 \pm 6	289 \pm 3	265 \pm 6	266 \pm 7				
1984-85	235 \pm 5	216 \pm 7	219 \pm 16	258 \pm 8	242 \pm 15	235 \pm 6	235 \pm 5				
1985-86	230 \pm 6	227 \pm 6	252 \pm 18	260 \pm 5	261 \pm 3	228 \pm 4	234 \pm 6				
1986-87	249 \pm 6	220 \pm 11	211 \pm 16	279 \pm 4	269 \pm 3	252 \pm 8	250 \pm 7				
Black drum											
1983-84	454 \pm 53	362 \pm 18	378 \pm 8	382 \pm 13	408 \pm 17	365 \pm 32	400 \pm 29				
1984-85	459 \pm 27	430 \pm 57	295 \pm 19	354 \pm 18	353 \pm 20	370 \pm 50	422 \pm 35				
1985-86	544 \pm 108	503 \pm 112	345 \pm 56	380 \pm 12	369 \pm 11	336 \pm 35	473 \pm 78				
1986-87	443 \pm 38	389 \pm 37	385 \pm 26	394 \pm 28	411 \pm 22	362 \pm 40	412 \pm 35				
Gafftopsail catfish											
1983-84	416 \pm 23	471 \pm 18	499 \pm 17	472 \pm 15	488 \pm 23	439 \pm 19	480 \pm 15				
1984-85	455 \pm 18	491 \pm 15	480 \pm 26	434 \pm 46	521 \pm 17	247 \pm 33	470 \pm 23				
1985-86	456 \pm 22	319 \pm 3	443 \pm 13	533 \pm 19	450 \pm 36	312 \pm 33	477 \pm 23				
1986-87	419 \pm 23	459 \pm 10	473 \pm 14	519 \pm 21	459 \pm 18	306 \pm 32	452 \pm 18				
Red drum											
1983-84	536 \pm 22	513 \pm 7	501 \pm 7	497 \pm 7	516 \pm 7	510 \pm 7	509 \pm 9				
1984-85	555 \pm 13	572 \pm 10	533 \pm 11	528 \pm 11	537 \pm 13	563 \pm 6	546 \pm 10				
1985-86	567 \pm 19	562 \pm 9	543 \pm 6	544 \pm 5	531 \pm 6	553 \pm 5	548 \pm 7				
1986-87	561 \pm 12	524 \pm 5	517 \pm 6	565 \pm 8	536 \pm 7	561 \pm 4	550 \pm 7				
Sand seatrout											
1983-84	281 \pm 4	287 \pm 10	291 \pm 11	287 \pm 8	317 \pm 4	298 \pm 6	290 \pm 6				
1984-85	272 \pm 8	284 \pm 5	296 \pm 13	281 \pm 4	292 \pm 5	288 \pm 4	275 \pm 7				
1985-86	276 \pm 4	266 \pm 5	280 \pm 6	283 \pm 9	298 \pm 7	286 \pm 4	278 \pm 5				
1986-87	283 \pm 4	285 \pm 11	281 \pm 9	280 \pm 6	297 \pm 12	281 \pm 4	282 \pm 5				
Sheepshead											
1983-84	346 \pm 4	344 \pm 9	384 \pm 6	378 \pm 12	391 \pm 7	343 \pm 6	354 \pm 7				
1984-85	354 \pm 4	357 \pm 5	390 \pm 7	387 \pm 4	411 \pm 14	348 \pm 8	368 \pm 5				
1985-86	380 \pm 7	367 \pm 11	376 \pm 30	396 \pm 12	471 \pm 9	353 \pm 14	385 \pm 12				
1986-87	373 \pm 7	353 \pm 9	366 \pm 15	374 \pm 10	435 \pm 35	363 \pm 15	371 \pm 10				
Southern flounder											
1983-84	350 \pm 5	364 \pm 8	372 \pm 8	345 \pm 6	387 \pm 6	385 \pm 6	356 \pm 6				
1984-85	356 \pm 5	360 \pm 6	373 \pm 6	341 \pm 6	361 \pm 17	326 \pm 10	352 \pm 6				
1985-86	352 \pm 7	340 \pm 6	377 \pm 19	357 \pm 5	364 \pm 2	361 \pm 4	354 \pm 6				
1986-87	352 \pm 4	366 \pm 6	383 \pm 10	372 \pm 9	386 \pm 5	397 \pm 3	369 \pm 5				

Table D.19. (Cont'd.)

Species Year	Bay system										Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
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				
1986-87	430 ± 6	407 ± 3	405 ± 2	412 ± 3	423 ± 4	416 ± 3	425 ± 2	421 ± 4				
All species combined ^a												
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				
1986-87	336 ± 8	427 ± 5	434 ± 4	411 ± 9	404 ± 9	414 ± 5	434 ± 4	381 ± 25				

^aIncludes "other" species.

Table D.20. Mean total length of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1986). 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				
Day type													
Atlantic croaker													
1983													
Weekend		248 \pm 13	233 \pm 4	231 \pm 9	287 \pm 8	250 \pm 2	290 \pm 3	268 \pm 8	258 \pm 9				
Weekday		259 \pm 11	238 \pm 9	232 \pm 6	300 \pm 7	288 \pm 4	286 \pm 5	259 \pm 6	268 \pm 9				
1984													
Weekend		228 \pm 4	210 \pm 11	218 \pm 19	258 \pm 5	234 \pm 7	241 \pm 22	244 \pm 9	228 \pm 4				
Weekday		248 \pm 8	228 \pm 5	239 \pm 59	258 \pm 16	251 \pm 8	245 \pm 6	213 \pm 9	247 \pm 8				
1985													
Weekend		241 \pm 6	229 \pm 10	227 \pm 9	268 \pm 18	233 \pm 10	265 \pm 4	227 \pm 6	242 \pm 6				
Weekday		217 \pm 8	225 \pm 6	309 \pm 23	263 \pm 5	238 \pm 3	258 \pm 6	229 \pm 6	224 \pm 7				
1986													
Weekend		252 \pm 8	217 \pm 6	211 \pm 16	276 \pm 2	234 \pm 17	266 \pm 3	253 \pm 11	252 \pm 9				
Weekday		243 \pm 8	218 \pm 17		281 \pm 5	238 \pm 5	270 \pm 7	248 \pm 11	243 \pm 8				
Black drum													
1983													
Weekend		388 \pm 26	326 \pm 14	377 \pm 10	372 \pm 20	354 \pm 5	409 \pm 19	435 \pm 18	362 \pm 16				
Weekday		377 \pm 30	362 \pm 19	383 \pm 17	387 \pm 13	385 \pm 24	372 \pm 15	391 \pm 49	374 \pm 24				
1984													
Weekend		396 \pm 27	340 \pm 14	349 \pm 28	405	396 \pm 6	298 \pm 24	443 \pm 30	390 \pm 25				
Weekday		475 \pm 25	341 \pm 20	376 \pm 28	403 \pm 52	327 \pm 20	363 \pm 40	344 \pm 64	414 \pm 24				
1985													
Weekend		331 \pm 16	345 \pm 17	474 \pm 80	417 \pm 41	357 \pm 20	362 \pm 15	305 \pm 24	347 \pm 17				
Weekday		319 \pm 16	356 \pm 25	375 \pm 33	362 \pm 10	364 \pm 17	357 \pm 11	306 \pm 76	339 \pm 19				
1986													
Weekend		431 \pm 37	324 \pm 22	395 \pm 9	378 \pm 29	359 \pm 24	374 \pm 11	431 \pm 61	402 \pm 32				
Weekday		378 \pm 28	329 \pm 12	520 \pm 182	583 \pm 196	341 \pm 19	371 \pm 14	350 \pm 11	361 \pm 24				
Gafftopsail catfish													
1983													
Weekend		338	465 \pm 19	473 \pm 8	460 \pm 11	574 \pm 12	480 \pm 23	439 \pm 19	467 \pm 46				
Weekday		421 \pm 22	446 \pm 16	487 \pm 27	484 \pm 29	523 \pm 15	560		489 \pm 20				
1984													
Weekend		471 \pm 33	483 \pm 17	499 \pm 20	352 \pm 74	559 \pm 13	305	279 \pm 270	462 \pm 32				
Weekday		455 \pm 26	510 \pm 31	423 \pm 5	484 \pm 34	513 \pm 11	341		472 \pm 37				
1985													
Weekend		350 \pm 6	472 \pm 13	444 \pm 21	532 \pm 24	471 \pm 49			416 \pm 13				
Weekday		497 \pm 22	463 \pm 18	442 \pm 12	536 \pm 37	406 \pm 23			487 \pm 25				
1986													
Weekend		432 \pm 19	450 \pm 12	453 \pm 18	494 \pm 36	438 \pm 25			443 \pm 19				
Weekday		287 \pm 16	450 \pm 10	454 \pm 22	516 \pm 33	456 \pm 25			445 \pm 19				

Table D.20. (Cont'd.)

Species Year	Day type	Bay system							Coastwide
		Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Red drum									
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
1986									
Weekend		545 ± 16	514 ± 6	522 ± 8	560 ± 15	551 ± 12	524 ± 5	558 ± 5	540 ± 9
Weekday		580 ± 18	526 ± 7	503 ± 6	571 ± 14	542 ± 13	520 ± 16	555 ± 7	548 ± 9
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
1986									
Weekend		280 ± 6	267 ± 12	278 ± 4	279 ± 10	283 ± 6	281 ± 11	283 ± 5	280 ± 6
Weekday		286 ± 5	317 ± 10	287 ± 30	271 ± 5	276 ± 3	317 ± 5	271 ± 9	283 ± 5
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
1986									
Weekend		381 ± 11	360 ± 9	353 ± 29	378 ± 16	385 ± 36	475 ± 40	367 ± 25	377 ± 14
Weekday		376 ± 8	361 ± 8	377 ± 16	353 ± 30	431 ± 48	391	356 ± 23	369 ± 12

Table D.20. (Cont'd.)

Species Year	Bay system										Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Southern flounder												
1983											382 ± 5	359 ± 8
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				
1986												
Weekend	351 ± 5	360 ± 7	371 ± 7	358 ± 14	384 ± 9	383 ± 7	398 ± 4	366 ± 6				
Weekday	361 ± 8	388 ± 8	406 ± 19	383 ± 11	357 ± 6	390 ± 9	396 ± 4	376 ± 8				
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				
1986												
Weekend	431 ± 5	403 ± 4	411 ± 4	420 ± 5	420 ± 6	413 ± 3	424 ± 3	421 ± 4				
Weekday	432 ± 11	409 ± 5	405 ± 3	413 ± 6	418 ± 4	411 ± 5	424 ± 3	421 ± 6				
All species combined ^a												
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				
1986												
Weekend	323 ± 6	420 ± 8	447 ± 7	424 ± 19	408 ± 15	410 ± 7	436 ± 5	362 ± 7				
Weekday	343 ± 19	427 ± 6	430 ± 5	412 ± 17	388 ± 12	410 ± 7	430 ± 5	380 ± 14				

^aIncludes "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 (1983-1987). 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				
Day type												
Atlantic croaker												
1983-84				285				288			282	275 \pm 259
Weekend	192 \pm 24											191 \pm 191
Weekday	186											
1984-85				294								224 \pm 24
Weekend	216 \pm 2	208 \pm 7			260			235 \pm 11			238 \pm 4	224 \pm 12
Weekday	221 \pm <1										238 \pm 53	
1985-86												234 \pm 92
Weekend	240 \pm 1	223		247 \pm 12	334			242 \pm 3			241	244 \pm 59
Weekday		244		242 \pm 13	230			258 \pm 20				
1986-87												277 \pm 133
Weekend	228 \pm 4	235		278	261 \pm 16			303 \pm 7			190	259 \pm 240
Weekday	210			226				278			350	
Black drum												
1983-84				297								529 \pm 116
Weekend	693 \pm 122	400 \pm 73	369 \pm 12		449						309 \pm 44	413 \pm 38
Weekday	488 \pm 79	422 \pm 78	383 \pm 26	426 \pm 28	405 \pm 21			497 \pm 5			351 \pm 41	
1984-85												514 \pm 140
Weekend	638	669 \pm 108	272 \pm 28		379 \pm 23			287 \pm 14			553 \pm 211	413 \pm 55
Weekday	715 \pm 57	396 \pm 77	297 \pm 36	340 \pm 12	337			382 \pm 382			300 \pm 51	
1985-86												639 \pm 42
Weekend	799 \pm 13	739 \pm 159	309 \pm 64	457 \pm 45	544 \pm 25			399 \pm 10			313 \pm 21	626 \pm 130
Weekday	581	506 \pm 104	297 \pm 36	403 \pm 35	762 \pm 161			368			384 \pm 44	
1986-87												481 \pm 93
Weekend	761 \pm 141	922 \pm 41	353 \pm 67	383 \pm 11	401 \pm 43			531 \pm 79			354 \pm 150	430 \pm 55
Weekday	352 \pm 21	633 \pm 114		380 \pm 64	523 \pm 37			481 \pm 30			367 \pm 37	
Gafftopsail catfish												
1983-84				468 \pm 5								511 \pm 32
Weekend	490 \pm 1	575	541 \pm 6		533							479 \pm 235
Weekday		490										
1984-85												450 \pm 144
Weekend		449 \pm 28	450	575	457						214 \pm 214	430 \pm 430
Weekday	368				455							
1985-86												462 \pm 147
Weekend	439 \pm 15	527		558	551			530				498 \pm 498
Weekday				378								
1986-87												471 \pm 303
Weekend	430	542	505 \pm 24	559	561							540 \pm 298
Weekday		514 \pm 19			549 \pm 19							

Table D.21. (Cont'd.)

Species Year	Bay system								Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre			
Red drum										
1983-84										
Weekend	542 ± 28	552 ± 12	552 ± 18	514	558 ± 66	603 ± 46	505 ± 27	541 ± 20		
Weekday	534 ± 58	556 ± 7	497 ± 18	540 ± 5	539 ± 17	567 ± 35	532 ± 16	541 ± 20		
1984-85										
Weekend	617	550 ± 20	480 ± 10	555 ± 33	470 ± 44	494 ± 15	494 ± 27	514 ± 54		
Weekday	523 ± 27	537 ± 39	515 ± 18	554 ± 9	460 ± 31	494	530 ± 14	518 ± 32		
1985-86										
Weekend	486 ± 11	600 ± 33	565 ± 32	585 ± 7	545 ± 19	572 ± 10	600 ± 16	572 ± 16		
Weekday	575 ± 70	569 ± 19	596 ± 32	581 ± 21	568 ± 23	614 ± 10	594 ± 10	582 ± 20		
1986-87										
Weekend	546 ± 34	552 ± 33	549 ± 13	574 ± 5	565 ± 11	561 ± 17	579 ± 7	565 ± 15		
Weekday	549 ± 35	640 ± 41	563 ± 30	553 ± 5	573 ± 10	548 ± 9	590 ± 10	565 ± 17		
Sand seatrout										
1983-84										
Weekend	225	357 ± 1	327	359	360	352	335	230 ± 229		
Weekday	342	317 ± 317		262 ± 15			316 ± 11	326 ± 243		
1984-85										
Weekend	307 ± 15	320 ± 17	338 ± 3		369 ± 28	332 ± 5	289 ± 2	297 ± 24		
Weekday		283					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		
1986-87										
Weekend		325		323 ± 8		355 ± 13	292 ± 11	296 ± 2		
Weekday	334			291		362 ± 15	292 ± 18	322 ± 309		
Sheepshead										
1983-84										
Weekend	369 ± 5	353 ± 16	360 ± 23	471	335	446 ± 26	361 ± 1	360 ± 26		
Weekday	376	298 ± 6	393 ± 4	397 ± 5	363 ± 54		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		
1986-87										
Weekend	343 ± 27	387 ± 29	391 ± 50	380 ± 5	349 ± 80	488 ± 13	354 ± 48	376 ± 12		
Weekday	336 ± 18	325 ± 18	323	374 ± 13	379 ± 9	310	368 ± 54	366 ± 15		

Table D.21. (Cont'd.)

Species Year	Bay system										Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Southern flounder												
1983-84												
Weekend	348 ± 29	383 ± 66	355 ± 8	371	354	427 ± 28	390	363 ± 84				
Weekday	360 ± 22	336 ± 17	367 ± 27	314 ± 3	287 ± 1	372 ± 9	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				
1986-87												
Weekend	316 ± 10	329 ± 10	346 ± 29	341 ± 36	371 ± 12	386 ± 8	402 ± 10	348 ± 15				
Weekday	348 ± 29	321 ± 15	345 ± 12	345 ± 12	328 ± 18	389 ± 13	390 ± 14	366 ± 18				
Spotted seatrout												
1983-84												
Weekend	407 ± 14	420 ± 13	395 ± 11	361	386	418 ± 318	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				
1986-87												
Weekend	423 ± 12	411 ± 10	395 ± 5	407 ± 6	430 ± 3	425 ± 6	431 ± 11	422 ± 8				
Weekday	417 ± 25	408 ± 6	394 ± 4	405 ± 3	448 ± 22	421 ± 4	425 ± 9	419 ± 11				
All species combined ^a												
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				
1986-87												
Weekend	385 ± 10	479 ± 29	426 ± 11	407 ± 24	448 ± 8	433 ± 6	426 ± 27	417 ± 12				
Weekday	423 ± 24	428 ± 24	399 ± 7	399 ± 11	447 ± 13	417 ± 18	438 ± 14	421 ± 8				

^aIncludes "other" species.

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide	
					Galveston	Matagorda	San Antonio	Arañas	Christi	Upper Laguna Madre	Lower Laguna Madre		
			Finetooth shark	<u>Carcharhinus isodon</u>			0.80						0.19
			Requiem sharks	Family <u>Carchariniidae</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>		1.30	0.53	1.44				10.10	1.63
			Schoolmaster	<u>Lutjanus apodus</u>								0.51	0.06
			Snook	<u>Centropomus undecimalis</u>	0.33							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>									0.13
			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>		1.30							0.06
			Tripletail	<u>Lobotes surinamensis</u>		1.30							0.06
	Weekday		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			0.27			0.12
			Bighead searobin	<u>Prionotus tribulus</u>							1.11		0.06
			Black margate	<u>Anisotremus surinamensis</u>				0.26					0.06
			Bluntnose jack	<u>Hemicaranx amblychachus</u>						0.27			0.06
			Blue catfish	<u>Ictalurus furcatus</u>									0.81
			Bluefish	<u>Pomatomus saltatrix</u>	2.94	8.47	0.86						0.69
			Bluerunner	<u>Caranx crysos</u>	1.96	1.69	0.57			0.53			0.17
			Cobia	<u>Rachycentrum canadum</u>				0.27					0.06

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system									
					Galveston	Matagorda	San Antonio	San	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
			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>Scomberomus maculatus</u>	3.49	4.41	4.67		2.78	4.29		3.40		
			Spot	<u>Leiostomus xanthurus</u>						5.00		1.03		
			Stringrays 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		
			Alligator gar	<u>Lepisosteus spatula</u>							0.89	0.38		
			Atlantic cutlassfish	<u>Trichiurus lepturus</u>						7.14		0.19		
			Atlantic spadefish	<u>Chaetodipterus faber</u>		0.77						0.19		
			Blue caffish	<u>Ictalurus furcatus</u>	6.45	15.38						4.21		
			Channel caffish	<u>Ictalurus punctatus</u>	83.87							4.97		
			Crevalle jack	<u>Caranx hippos</u>				1.15				0.19		
			Florida pompano	<u>Trachinotus carolinus</u>							0.45	0.19		
			Gray triggerfish	<u>Balistes capricus</u>		2.31						0.57		
			Greater amberjack	<u>Seriola dumerili</u>		0.77						0.19		
			Gulf flounder	<u>Paralichthys albigutta</u>					25.00	3.03		0.38		
			Gulf kingfish	<u>Menticirrhus littoralis</u>		2.31	12.64				9.38	2.68		
			Hardhead caffish	<u>Arius felis</u>		5.38	4.76			3.03	2.68	6.88		
			Molly miller	<u>Scartella cristata</u>		3.08	8.05			81.82	8.22	1.15		
			Pigfish	<u>Orthopristis chrysoptera</u>							35.71	8.22		
			Pinfish	<u>Lagodon rhomboides</u>							7.14	0.19		
			Sea basses sp.	Family Serranidae										
			Comb grouper	<u>Mycteroperca rubra</u>							0.89	0.38		
			Gag	<u>Mycteroperca microlepis</u>							0.45	0.19		

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		
	Searobins sp.	Family Triglidae	3.23								0.19
	Bighead searobin	<u>Prionotus tribulus</u>									0.19
	Sharks sp.	<u>Rhizoprionodon</u>									0.19
	Atlantic sharpnose shark	<u>ferranovae</u>	0.77								3.06
	Bonnethead	<u>Sphyrna tiburo</u>			14.94			6.06	7.14		2.49
	Requiem sharks	Family <u>Carcharhinidae</u>			14.94						9.94
	Silver perch	<u>Bairdiella chrysoura</u>	6.45	38.46							0.19
	Smallmouth buffalo	<u>Ictiobus bubalus</u>		0.77							7.46
	Snappers sp.	Family <u>Lutjanidae</u>		29.23	1.15			3.03			0.19
	Red snapper	<u>Lutjanus campechanus</u>									43.98
	Southern hake	<u>Urophycis floridanus</u>						3.03			0.19
	Southern kingfish	<u>Menticirrhus americanus</u>		0.77	36.78	75.00		3.03	21.43	84.82	0.19
	Stingrays sp.	Family <u>Dasyatidae</u>									0.19
	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>							50.00	20.00	1.37
	Hardhead catfish	<u>Arius felis</u>	0.45			38.46		2.08		80.00	2.34
	Pigfish	<u>Orthopristis chrysoptera</u>				38.46		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	Alligator gar	<u>Lepisosteus spatula</u>									0.44
High Use	Atlantic cutlassfish	<u>Trichiurus lepturus</u>		2.66					0.52	4.67	0.61
Weekend	Atlantic spadefish	<u>Chaetodipterus faber</u>	5.51		0.96			0.42		2.80	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	9.09					0.44

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide	
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper			Lower
										Laguna Madre	Laguna Madre		
			Cobia	<u>Rachycentrum canadum</u>							0.52	1.87	0.09
			Crevalle jack	<u>Caranx hippos</u>	1.58		1.44		6.75	2.08			2.54
			Dolphins sp.	Family <u>Coryphaenidae</u>					0.42				0.09
			Dolphin	<u>Coryphaena hippurus</u>									0.09
			Finescale Menhaden	<u>Brevoortia gunteri</u>	0.88		1.44		0.42	4.69		0.94	1.40
			Florida pompano	<u>Trachinotus carolinus</u>	1.77		2.88		5.90				1.75
			Gray triggerfish	<u>Balistes capricus</u>									0.09
			Greater amberjack	<u>Seriola dumerilli</u>	0.39								0.61
			Gulf flounder	<u>Paralichthys albigutta</u>				3.03	1.27	1.56			3.23
			Gulf kingfish	<u>Menticirrhus littoralis</u>	1.18	6.20	12.50		10.55	11.46		16.82	7.34
			Hardhead catfish	<u>Arius felis</u>	2.76	0.88	1.92	21.21					0.09
			King mackerel	<u>Scomberomorus cavalla</u>	0.39	18.58	6.73	6.06	3.38	1.04		3.74	5.68
			Ladyfish	<u>Elops saurus</u>	5.51								0.26
			Largemouth bass	<u>Micropterus salmoides</u>	1.18								0.52
			Little tunny	<u>Euthynnus alletteratus</u>	2.36								10.84
			Pigfish	<u>Orthopristis chrysoptera</u>	10.24		7.21	3.03	8.44	30.21		3.74	12.68
			Pinfish	<u>Lagodon rhomboides</u>	14.57			18.18	7.60	38.54		9.35	
			Sea basses sp.	Family <u>Serranidae</u>									0.09
			Rock hind	<u>Epinephalus adscensionis</u>					0.84			0.94	0.18
			Warsaw grouper	<u>Epinephalus nigritus</u>									
			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 <u>Sphyrnidae</u>	0.39								0.09
			Lemon shark	<u>Negaprion brevirostris</u>	1.77								0.18
			Requiem sharks	Family <u>Carcharhinidae</u>									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 <u>Lutjanidae</u>			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

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
			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 <u>Dasyatidae</u>								
			Atlantic stingray	<u>Dasyatis sabina</u>				9.09				0.26
			Striped mullet	<u>Mugil cephalus</u>	0.39				35.44			7.43
			Tripletail	<u>Lobotes surinamensis</u>	0.39	5.31	2.40		0.42			1.14
			White mullet	<u>Mugil curema</u>	0.39							0.09
Weekday			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>								1.84
			Cobia	<u>Rachycentrum canadum</u>	8.96							0.10
			Cownose ray	<u>Rhinoptera bonasus</u>	0.47							0.10
			Crevalle jack	<u>Caranx hippos</u>	2.83	1.21	2.25			1.84	1.35	1.26
			Drums sp.	Family <u>Sciaenidae</u>	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 capriscus</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>	0.94				0.51	0.92		0.19
			Ladyfish	<u>Elops saurus</u>		16.36			4.57	6.42	4.05	4.64
			Lookdown	<u>Selene vomer</u>					0.51			0.10
			Mackerels sp.	Family <u>Scombridae</u>	0.94							0.19
			Pigfish	<u>Orthopristis chrysoptera</u>	0.94				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 <u>Serranidae</u>								
			Comb grouper	<u>Mycteroperca rubra</u>			1.12		0.51			0.10
			Snowy grouper	<u>Epinephalus niveatus</u>					0.51			0.58
			Warsaw grouper	<u>Epinephalus nigritus</u>		0.61	1.12	1.06	0.51		1.35	

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							
			Sharks sp.															
			Atlantic sharpnose shark	<u>Rhizoprionodon terranovae</u>	0.47	19.39	5.62	3.19			1.35							4.35
			Blacktip shark	<u>Carcharhinus limbatus</u>			1.12											0.19
			Bonnethead	<u>Sphyrna tiburo</u>		0.61	4.49			0.51								0.48
			Finetooth shark	<u>Carcharhinus isodon</u>			1.12											0.10
			Requiem sharks	Family <u>Carcharhinidae</u>		1.82	8.99			0.51								1.16
			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 <u>Lutjanidae</u>														
			Gray snapper	<u>Lutjanus griseus</u>				1.06										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									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 <u>Dasyatidae</u>														
			Atlantic stingray	<u>Dasyatis sabina</u>	0.94													0.19
			Southern stingray	<u>Dasyatis americana</u>	0.47													0.10
			Striped mullet	<u>Mugil cephalus</u>	2.83													0.58
			Sunfishes sp.	Family <u>Centrarchidae</u>	0.47													0.10
			Blue catfish	<u>Ictalurus furcatus</u>		4.54												1.29
			Gray triggerfish	<u>Balistes capriciscus</u>			1.43											0.43
			Gulf flounder	<u>Paralichthyes albigutta</u>		30.30												3.45
			Hardhead catfish	<u>Arius felis</u>	14.29													15.52
			Pigfish	<u>Orthopristis chrysoptera</u>	19.05		17.14	23.08										21.55
			Pinfish	<u>Lagodon rhomboides</u>	23.81			23.08										5.60
			Sharks sp.															
			Bonnethead	<u>Sphyrna tiburo</u>				7.69										0.43
			Silver perch	<u>Bairdiella chrysoura</u>				7.69										0.43

Low use

Weekend

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			
Weekday	Snappers sp.	Family Lutjanidae										
	Red snapper	<u>Lutjanus campechanus</u>			2.86	7.59						1.29
	Southern kingfish	<u>Menticirrhus americanus</u>	42.86	65.15	78.57							50.00
	Alligator gar	<u>Lepisosteus spatula</u>	0.33							4.00		0.45
	Bearded brotula	<u>Brotula barbata</u>					2.33					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 capricus</u>				26.67			6.98			0.67
	Gulf flounder	<u>Paralichthys albigutta</u>							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				6.67						0.22
Warsaw grouper	<u>Epinephelus nigritus</u>								46.55		6.04	
Silver perch	<u>Bairdiella chrysoura</u>											
Snappers sp.	Family Lutjanidae											
Red snapper	<u>Lutjanus campechanus</u>	14.75			20.00			9.30			11.63	
Southern kingfish	<u>Menticirrhus americanus</u>							25.58	92.00		7.61	
1986-87 High-Use Weekend	Atlantic cutlassfish	<u>Trichiurus lepturus</u>		0.96		12.40		3.95		2.04	2.11	
	Atlanta spadefish	<u>Chaetodipterus faber</u>	1.20								0.32	
	Blue runner	<u>Caranx crysos</u>				0.83					0.08	
	Bluefish	<u>Pomatomus saltatrix</u>	0.30						3.33	1.17	0.57	
	Bony fishes	Class osteichthyes							3.33	0.29	0.65	
	Cownose ray	<u>Rhinoptera bonasus</u>							5.00		0.08	
	Crevalle jack	<u>Caranx hippos</u>	0.30	0.96	1.53						0.65	
	Florida pompano	<u>Trachinotus carolinus</u>		0.96	1.02	0.83		1.32	5.00	0.58	0.81	
	Gray triggerfish	<u>Balistes capricus</u>			0.51						0.08	

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	
			Gulf flounder	<u>Paralichthys albigutta</u>				3.31	18.42	3.33	8.16	3.90
			Gulf kingfish	<u>Menticirrhus littoralis</u>			12.24				5.83	3.57
			Gulf menhaden	<u>Brevoortia patronus</u>				0.83	1.32			0.16
			Gulf toadfish	<u>Opsanus beta</u>							0.29	0.08
			Hardhead catfish	<u>Arius felis</u>	10.24	2.88	2.55	8.26	26.32	21.67	6.71	8.77
			Inshore lizardfish	<u>Synodus foetens</u>	0.30							0.08
			Jacks sp.	Family Carangidae				2.48				0.08
			King mackerel	<u>Scomberomorus cavalla</u>							0.88	0.49
			Ladyfish	<u>Elops saurus</u>	2.71		5.10	2.48	3.95	1.67	0.29	0.08
			Mullet sp.	Family Mugilidae				20.66			4.66	3.41
			Ocellated flounder	<u>Ancylopetta quadrocellata</u>							0.29	0.08
			Pigfish	<u>Orthopristis chryoptera</u>	12.95	2.88	1.53	1.65	3.95	10.00	1.75	5.36
			Pinfish	<u>Lagodon rhomboides</u>	8.13			3.31	7.90	25.00	1.17	4.54
			Sea basses sp.	Family Serranidae								
			Rock sea bass	<u>Centropristis philidelphica</u>					1.32			0.08
			Warsaw grouper	<u>Epinephelus nigritus</u>						1.17		0.32
			Yellowedge grouper	<u>Epinephelus flavolimbatus</u>					1.32			0.08
			Sharks sp.									
			Atlantic sharpnose shark									
			Blacktip shark	<u>Rhizoprionodon terraenovae</u>	2.71	15.38	7.65	0.83		5.00		3.57
			Bonnethead	<u>Carcharhinus limbatus</u>	0.60	4.81			3.95		0.29	0.89
			Bull shark	<u>Sphyrna tiburo</u>	2.41	10.58	19.39				0.29	4.71
			Finetooth shark	<u>Carcharhinus leucas</u>	0.30							0.08
			Great hammerhead	<u>Carcharhinus isodon</u>		3.85	0.51					0.08
			Requiem sharks	<u>Sphyrna mokarran</u>			6.63					0.32
			Scalloped hammerhead	Family Carcharhinidae						7.90		1.06
			Spinner shark	<u>Sphyrna lewini</u>			0.51					0.49
			Silver perch	<u>Carcharhinus brevipinna</u>			5.61		1.32		10.79	0.08
			Snappers sp.	<u>Bairdella chrysoura</u>	6.32	0.96						5.76
			Gray snapper	Family Lutjanidae								
			Red snapper	<u>Lutjanus griseus</u>					1.32		0.88	0.32
			Vermilion snapper	<u>Lutjanus campechanus</u>							0.58	0.16
			Southern kingfish	<u>Rhomboplites aurorubens</u>	0.30							0.08
			Spot	<u>Menticirrhus americanus</u>	49.40	51.92	32.65	4.96	14.47	5.00	51.60	38.88
			Spanish mackerel	<u>Leiostomus xanthurus</u>	0.30				1.32			0.16
				<u>Scomberomorus maculatus</u>	1.20	1.92	1.53			1.67		0.81

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		
			Blacktip shark	<u>Carcharhinus limbatus</u>		9.68	16.13	4.00	0.60			5.14
			Bonnethead	<u>Sphyrna tiburo</u>		12.10	18.89	0.60				5.98
			Bull shark	<u>Carcharhinus leucas</u>		1.61	0.46		0.60			0.42
			Dusky shark	<u>Carcharhinus obscurus</u>	6.39							1.78
			Great hammerhead	<u>Sphyrna mokarran</u>		0.81	0.46					0.10
			Lemon shark	<u>Negaprion brevirostris</u>			0.46					0.10
			Requiem sharks	Family <u>Carcharhinidae</u>	0.38		2.76					0.73
			Silver perch	<u>Bairdiella chrysoura</u>	3.38				1.79	3.92	11.65	2.72
			Silver seatrout	<u>Cynoscion nothus</u>	4.51							1.26
			Sanppers sp.	Family <u>Lutjanidae</u>								
			Gray snapper	<u>Lutjanus griseus</u>				4.00	1.96		4.85	0.63
			Wenchman	<u>Pristipomoides aquilonaris</u>								0.10
			Southern kingfish	<u>Menticirrhus americanus</u>	15.79	25.00	3.23	12.00	7.14	11.76	30.10	13.84
			Spanish mackerel	<u>Scuromoropus maculatus</u>	1.50	0.81	1.38	4.00	0.60		0.97	1.15
			Spot	<u>Leiostomus xanthurus</u>	0.38							0.10
			Stingrays sp.	Family <u>Dasyatidae</u>					0.60			
			Atlantic stingray	<u>Dasyatis sabina</u>								0.10
			Southern stingray	<u>Dasyatis americana</u>		0.81						0.10
			Striped bass	<u>Morone saxatilis</u>	0.75							0.21
			Striped burrfish	<u>Chilomycterus schoepfi</u>							0.97	0.10
			Striped mullet	<u>Mugil cephalus</u>							0.97	0.10
			Sunfishes sp.	Family <u>Centrarchidae</u>							0.97	0.10
	Low-use		Alligator gar	<u>Lepisosteus spatula</u>							1.40	0.40
	Weekend		Blue catfish	<u>Ictalurus furcatus</u>	51.50					35.70		25.00
			Bony fishes sp.	Class <u>Osteichthyes</u>								1.80
			Channel catfish	<u>Ictalurus punctatus</u>	22.00							10.70
			Cownose ray	<u>Rhinoptera bonasus</u>	0.80		2.90					0.40
			Crevalle Jack	<u>Caranx hippos</u>			2.90					0.70
			Gulf flounder	<u>Paralichthys albigutta</u>								6.60
			Gulf kingfish	<u>Menticirrhus littoralis</u>			85.70					11.00
			Hardhead catfish	<u>Arius felis</u>	5.30							4.40
			Ocellated flounder	<u>Anclopsetta quadrocellata</u>								4.40
			Pigfish	<u>Orthopristis chrysoptera</u>								0.40
			Pinfish	<u>Lagodon rhomboides</u>				18.20	12.50	7.20	7.20	1.50
								54.50	25.00			

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	
			Sharks sp.	<u>Sphyrna tiburo</u>	0.80		2.90						0.70
			Bonnethead	<u>Bairdiella chrysoura</u>								8.60	2.20
			Silver perch	<u>Menticirrhus americanus</u>	16.70		2.90	9.10				74.30	27.90
			Southern kingfish	Family <u>Dasyatidae</u>									
			Stingrays sp.	<u>Dasyatis sabina</u>	0.80		2.90						0.70
			Atlantic stingray	<u>Dasyatis sayi</u>	0.80						7.20	1.40	0.40
			Bluntnose stingray	<u>Mugil cephalus</u>	0.80								1.10
			Striped mullet										
			Atlantic needlefish	<u>Strongylura marina</u>						1.60			0.40
			Blue catfish	<u>Ictalurus furcatus</u>	86.50								18.80
			Channel catfish	<u>Ictalurus punctatus</u>	5.80		14.30						2.50
			Flathead catfish	<u>Pylodictus olivaris</u>	3.80								0.80
			Gulf flounder	<u>Paralichthys albigutta</u>				6.70	91.70			15.50	10.90
			Gulf kingfish	<u>Menticirrhus littoralis</u>			81.00						7.10
			Hardhead catfish	<u>Arius felis</u>	3.80		41.20	6.70				17.20	8.40
			Ocellated flounder	<u>Acylosetta quadrocellata</u>				6.70					0.40
			Pigfish	<u>Orthopristis chrysoptera</u>				40.00			1.60		5.90
			Pinfish	<u>Lagodon rhomboides</u>									0.40
			Snappers sp.	Family <u>Lutjanidae</u>									
			Red snapper	<u>Lutjanus campechanus</u>			4.80						0.40
			Silver perch	<u>Bairdiella chrysoura</u>						89.10		8.60	25.90
			Southern kingfish	<u>Menticirrhus americanus</u>				40.00				32.80	14.60
			Stingrays sp.	Family <u>Dasyatidae</u>									
			Atlantic stingray	<u>Dasyatis sabina</u>						1.60			0.40
			Striped mullet	<u>Mugil cephalus</u>								8.60	2.10

Table D.23. Percent composition of the annual residential origin of private-boat fishermen-trips in Texas bays and passes by bay system (1974-87).

Bay system Year ^a	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
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
1986-87	89	7	3	1
Matagorda				
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
1986-87	51	25	23	1
San Antonio				
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
1986-87	51	25	23	1
Aransas				
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
1986-87	22	19	46	13

Table D.23. (Cont'd.)

Bay system Year ^a	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Corpus Christi				
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
1986-87	58	4	33	5
Upper Laguna Madre				
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
1986-87	70	8	19	2
Lower Laguna Madre				
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
1986-87	70	10	14	6
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
1986-87	61	13	22	4

^aPrior 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 (1974-1986). Blank = no fishermen interviewed.

Bay system ^a Year	Weekend			Weekday			Other states/ countries	Non-coastal counties	Other states/ countries
	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties			
Galveston									
1974-75	77	13	9	69	25	0	6		
1976	89	8	3						
1977	95	5	0						
1978	97	0	2						
1979	95	2	3	96	1	3	0		
1980	97	1	2	97	1	2	0		
1981	86	11	3	87	10	3	0		
1982	94	3	2	91	4	4	0		
1983	86	4	9	87	3	9	1		
1984	91	3	5	91	5	3	0		
1985	95	2	2	84	8	6	1		
1986	86	10	4	91	4	4	1		
Matagorda									
1974-75	52	48	0	32	52	16	0		
1976	50	39	10						
1977	45	30	24						
1978	37	35	28						
1979	42	30	28						
1980	42	30	28						
1981	55	25	20	43	24	32	0		
1982	47	28	26	36	26	37	1		
1983	31	30	40	43	30	26	1		
1984	46	26	28	44	30	24	2		
1985	51	29	19	32	30	37	1		
1986	51	27	22	45	23	31	2		
				54	20	25	1		
				52	21	25	2		

Table D.24. (Cont'd.)

Bay system ^a 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	
San Antonio									
1974-75	54	20	0	26	36	19	43	2	
1976	49	32	0	19					
1977	45	28	0	27					
1978	42	35	0	22	41	29	30	0	
1979	45	24	1	30	49	19	29	3	
1980	48	30	0	22	55	23	20	1	
1981	47	24	0	29	51	30	16	3	
1982	50	32	0	19	42	20	35	4	
1983	32	30	1	37	45	32	21	1	
1984	34	32	1	33	48	24	27	1	
1985	41	32	0	27	55	18	25	2	
1986	44	29	0	26					
Aransas									
1974-75	21	17	0	62	34	6	60	0	
1976	19	14	3	64					
1977	17	20	7	57					
1978	33	18	4	45	29	0	71	0	
1979	38	14	2	46	28	4	47	21	
1980	31	13	3	53	28	7	44	21	
1981	22	19	5	54	25	10	57	7	
1982	27	15	4	54	10	16	56	18	
1983	10	29	5	56	18	20	51	12	
1984	18	27	9	46	20	19	48	13	
1985	29	19	4	48	23	18	50	10	
1986	20	24	3	53					

Table D.24. (Cont'd.)

Bay system ^a 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
Corpus Christi									
1974-75	91	2	5	76	0	24	0	0	0
1976	71	4	23						
1977	74	4	20						
1978	70	4	23						
1979	59	5	31	26	0	63		11	
1980	67	1	29	22	2	39		38	
1981	72	3	22	49	3	35		13	
1982	64	6	27	42	4	43		10	
1983	59	6	35	43	6	35		16	
1984	57	9	32	43	5	36		16	
1985	43	9	45	44	5	44		7	
1986	57	5	36	56	3	36		4	
Upper Laguna Madre									
1974-75	84	1	15	61	3	31		5	
1976	64	8	27						
1977	76	5	18						
1978	56	8	36						
1979	61	9	28	88	0	12		0	
1980	59	9	31	68	13	15		4	
1981	72	8	20	63	13	22		3	
1982	75	7	18	65	10	25		0	
1983	66	7	26	62	9	27		3	
1984	72	6	20	63	9	24		3	
1985	72	8	18	64	8	24		4	
1986	70	10	19	65	8	23		3	

Table D.24. (Cont'd.)

Bay system ^a 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
1986	72	12	13	2	64	12	19	4
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
1986	62	16	22	1	57	13	27	4

^aprior 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 (1974-1987). Blank = no fishermen interviewed.

Bay system ^a Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galveston						
1974-76	97	0	1	96	0	0
1976-77	96	2	0		4	0
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
1986-87	95	2	0	99	1	0
Matagorda						
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	15	5
1986-87	42	45	0	58	12	2

Table D.25. (Cont'd.)

Bay system ^a 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	
San Antonio									
1974-76	41	33	0	26	50	29	0	21	0
1976-77	39	31	1	29					
1977-78	39	26	1	33					
1978-79	47	26	1	26					
1979-80	41	19	0	39	50	22	0	28	0
1980-81	46	29	0	26	28	28	0	43	0
1981-82	45	32	1	22	51	23	4	23	4
1982-83	47	27	0	25	51	26	1	22	1
1983-84	56	17	0	27	38	1	0	61	0
1984-85	55	27	0	18	72	15	0	13	0
1985-86	52	25	0	23	67	22	0	11	0
1986-87	52	34	0	14	83	15	0	2	0
Aransas									
1974-76	26	9	28	37	23	2	45	30	45
1976-77	23	14	8	55					
1977-78	33	14	12	41					
1978-79	26	9	15	50					
1979-80	39	18	7	36	25	0	36	39	36
1980-81	47	3	17	33	13	6	58	24	58
1981-82	53	16	8	23	26	6	43	26	43
1982-83	36	31	4	30	23	4	57	16	57
1983-84	50	21	0	29	14	32	21	33	21
1984-85	16	20	19	45	20	6	58	16	58
1985-86	32	20	10	38	32	9	35	24	35
1986-87	25	22	15	38	21	9	48	22	48

Table D.25. (Cont'd.)

Bay system ^a 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
Corpus Christi								
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
1986-87	65	4	29	3	61	2	14	23
Upper Laguna Madre								
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
1986-87	77	5	16	1	71	3	13	13

Table D.25. (Cont'd.)

Bay systema Year	Weekend			Weekday			Other states/ countries	Non- coastal counties	Other states/ countries
	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Non- coastal counties			
Lower Laguna Madre									
1974-76	94	2	2	58	9	19	14		
1976-77	80	3	5						
1977-78	78	2	15						
1978-79	88	1	7						
1979-80	91	0	3	32	8	12	48		
1980-81	76	5	5	50	0	10	40		
1981-82	89	1	7	65	1	10	24		
1982-83	86	2	3	63	2	10	25		
1983-84	70	4	22	44	3	26	28		
1984-85	76	3	10	57	10	5	27		
1985-86	82	5	7	57	4	9	29		
1986-87	80	3	9	63	5	10	22		
Coastwide									
1974-76	62	15	18	61	9	17	13		
1976-77	64	10	18						
1977-78	61	14	22						
1978-79	64	11	22						
1979-80	64	11	22						
1980-81	71	9	14						
1981-82	70	12	15						
1982-83	68	10	17						
1983-84	65	10	24						
1984-85	64	13	18						
1985-86	71	11	16						
1986-87	68	12	17						

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 (1974-1987).

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	
Galveston									
1974-76	2.7	2.2	2.6	2.3	2.5	3.6	4.9	5.8	4.8
1976-77	2.5		2.4		2.5		4.3		4.7
1977-78	2.6		2.7		2.6		5.5		5.5
1978-79	2.6		2.7		2.6		5.2		6.1
1979-80	2.7	2.5	2.9	1.9	2.7	5.4	6.0	5.6	6.0
1980-81	2.7	2.1	2.3	2.1	2.4	6.1	7.2	5.0	5.9
1981-82	2.7	2.3	2.3	2.2	2.4	6.3	5.6	4.9	6.8
1982-83	2.7	2.5	2.0	2.1	2.6	5.5	5.0	4.5	5.6
1983-84	2.6	2.3	2.6	1.7	2.4	6.3	4.8	4.9	5.8
1984-85	2.6	2.4	2.8	1.9	2.5	5.7	4.8	4.4	5.6
1985-86	2.7	2.3	2.8	1.9	2.5	5.0	6.2	4.8	5.6
1986-87	2.7	2.3	2.7	2.0	2.6	5.5	5.4	5.5	5.4
Matagorda									
1974-76	2.5	1.9	2.5	2.0	2.4	6.0	5.1	6.2	5.5
1976-77	2.9		2.6		2.8		3.8		4.6
1977-78	2.7		2.9		2.8		6.8		6.4
1978-79	3.0		2.8		3.0		5.5		6.9
1979-80	3.0	1.9	2.8	2.3	2.9	13.8	5.8	7.8	6.4
1980-81	2.9	2.4	2.5	2.1	2.7	9.2	7.1	4.9	8.6
1981-82	2.8	2.4	2.6	2.4	2.6	6.3	6.5	6.9	6.4
1982-83	2.8	2.5	2.7	2.5	2.7	6.7	6.2	5.1	7.2
1983-84	2.7	2.4	2.6	2.2	2.6	6.0	7.4	5.9	6.7
1984-85	3.0	2.4	2.9	2.1	2.7	6.2	5.4	5.5	7.0
1985-86	2.7	2.3	2.6	2.0	2.5	7.0	6.6	5.3	7.3
1986-87	2.8	2.4	2.8	2.3	2.6	5.4	5.4	6.4	6.4

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		Annual	
	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday		
San Antonio										
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		5.6		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	2.3	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
1986-87	2.6	2.4	2.5	2.0	2.5	7.8	6.4	5.3	4.6	6.8
Aransas										
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
1986-87	2.5	2.4	2.5	2.1	2.4	5.1	5.4	4.5	4.2	5.0

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			
Corpus Christi											
1974-76	2.5	1.9	2.5	2.3	2.4	2.4	4.0	3.7	3.7	4.0	3.8
1976-77	2.7		2.6		2.6	2.6		4.3	4.4		4.3
1977-78	2.4		2.6		2.5	2.5		5.3	4.8		5.1
1978-79	2.6		2.5		2.6	2.6		4.9	4.8		4.8
1979-80	2.6	2.7	2.7	2.1	2.6	2.6		4.2	4.3	4.4	4.3
1980-81	2.5	2.3	2.7	2.2	2.4	2.4		4.5	4.0	3.9	4.3
1981-82	2.5	2.3	2.6	2.2	2.4	2.4		4.6	4.0	4.2	4.5
1982-83	2.7	2.4	2.6	2.1	2.5	2.5		4.9	4.4	3.9	4.7
1983-84	2.8	2.4	2.8	2.1	2.6	2.6		4.8	3.2	4.0	4.6
1984-85	2.6	2.4	2.7	2.3	2.5	2.5		4.6	4.9	3.9	4.5
1985-86	2.6	2.3	2.1	1.8	2.3	2.3		5.0	5.4	4.8	5.0
1986-87	2.6	2.2	2.5	2.2	2.4	2.4		5.2	5.1	4.8	5.0
Upper Laguna Madre											
1974-76	2.6	2.4	2.5	2.1	2.5	2.5		3.7	4.2	3.5	7.1
1976-77	2.6		2.4		2.5	2.5		7.4	10.6		8.5
1977-78	2.6		2.6		2.6	2.6		7.1	8.8		8.0
1978-79	2.7		2.8		2.7	2.7		8.7	5.8		7.7
1979-80	2.8	2.3	2.5	2.0	2.6	2.6		6.9	7.0	5.0	6.7
1980-81	2.9	2.4	2.7	2.4	2.7	2.7		13.8	9.1	10.4	12.4
1981-82	2.9	2.5	2.7	2.3	2.7	2.7		13.5	10.2	6.9	11.5
1982-83	2.8	2.5	2.5	2.2	2.6	2.6		10.6	10.8	8.5	10.1
1983-84	2.7	2.5	2.8	2.1	2.6	2.6		10.9	11.3	7.0	10.9
1984-85	2.7	2.6	2.8	2.6	2.7	2.7		9.0	8.7	8.2	8.1
1985-86	2.7	2.4	2.3	2.3	2.5	2.5		11.3	8.1	6.5	10.0
1986-87	2.6	2.2	2.6	2.1	2.5	2.5		12.3	9.8	6.2	10.5

Table D.26. (Cont'd.)

Bay system Year	Mean fishing-party size			Mean trip length		
	High-use season		Annual	High-use season		Annual
	Weekend	Weekday		Weekend	Weekday	
Lower Laguna Madre						
1974-76	2.5	2.3	2.6	7.2	4.9	5.1
1976-77	2.6	2.4	2.5	6.1		4.2
1977-78	2.6	2.6	2.6	7.9		7.8
1978-79	2.6	2.7	2.6	7.0		5.8
1979-80	2.6	2.7	2.6	5.4	5.6	5.5
1980-81	2.6	2.8	2.6	6.2	7.4	4.8
1981-82	2.7	2.7	2.6	6.2	5.7	5.2
1982-83	2.1	2.4	2.5	7.1	6.8	5.8
1983-84	2.6	2.4	2.5	6.6	7.0	4.9
1984-85	2.6	2.4	2.5	6.0	5.4	5.4
1985-86	2.6	2.3	2.6	6.8	5.6	5.2
1986-87	2.6	2.2	2.4	7.5	6.3	6.3
Coastwide						
1974-76	2.6	2.4	2.5	5.1	4.8	5.7
1976-77	2.6	2.5	2.6	5.5		5.2
1977-78	2.6	2.7	2.6	6.2		6.7
1978-79	2.7	2.7	2.7	6.9		5.4
1979-80	2.7	2.7	2.7	6.1	6.2	5.7
1980-81	2.8	2.6	2.6	7.7	6.6	6.3
1981-82	2.7	2.6	2.5	7.5	5.9	5.9
1982-83	2.7	2.6	2.6	7.4	6.8	6.7
1983-84	2.7	2.5	2.6	7.5	6.9	5.8
1984-85	2.7	2.4	2.5	6.4	5.7	5.2
1985-86	2.7	2.3	2.6	7.5	5.8	6.8
1986-87	2.6	2.3	2.5	7.7	6.3	6.3

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 (1955-1987). 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 ^a	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
1987	1,198,157	675,512			1,877,896

^aResident, nonresident and temporary 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 (1958-1987).

Fiscal year (1 Sep-31 Aug)	Sport oyster dredge license	Sport shrimp trawl license	Fish guide license	Boat registration	Saltwater sportfishing stamp
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	251,897 ^a
1987	200	3,597	838	607,204	542,606

^aThe saltwater sportfishing stamp was first offered for sale on 1 January 1986.

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 (1983-1987). WE = weekend days. WD = weekdays.

Year Season Day type	Bay System										Coastwide	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre			
			26	11			37	10		4		108
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 (0)	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.1. (Cont'd.)

Year Season Day type	Bay System																			
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide												
1986-87																				
High use																				
WE	31	(3)	41	(7)	26	(13)	49	(39)	31	(28)	31	(19)	31	(168)	240	(277)				
WD	66	(9)	88	(22)	46	(39)	102	(80)	66	(23)	66	(67)	66	(117)	500	(357)				
Low use																				
WE	12	(0)	12	(12)	12	(2)	22	(8)	12	(13)	12	(13)	12	(21)	94	(69)				
WD	24	(0)	24	(6)	24	(0)	40	(14)	24	(0)	24	(9)	24	(25)	184	(54)				
Annual	133	(12)	165	(47)	108	(54)	213	(141)	133	(64)	133	(108)	133	(331)	1018	(757)				

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 (1983-1987).

Bay system Year	High-use season		Low-use season		Annual ^a
	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
1986-87	1.4 \pm 1.4	5.7 \pm 3.3	0.0	0.0	7.1 \pm 3.6
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
1986-87	0.4 \pm 0.3	3.7 \pm 2.0	0.7 \pm 0.4	0.4 \pm 0.4	5.2 \pm 2.1
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
1986-87	3.4 \pm 3.1	18.8 \pm 14.2	0.4 \pm 0.4	0.0	22.7 \pm 14.5
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
1986-87	10.7 \pm 4.0	30.9 \pm 7.6	4.8 \pm 4.5	6.1 \pm 4.4	52.5 \pm 10.6
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
1986-87	8.4 \pm 4.4	4.9 \pm 2.7	4.8 \pm 4.8	0.0	18.1 \pm 7.1
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
1986-87	2.0 \pm 1.2	17.0 \pm 7.1	2.0 \pm 1.5	6.7 \pm 6.0	27.7 \pm 9.5
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
1986-87	23.9 \pm 6.5	20.2 \pm 5.4	25.5 \pm 14.6	10.9 \pm 6.2	80.5 \pm 17.9
Coastwide ^a					
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
1986-87	50.1 \pm 9.5	101.1 \pm 19.0	39.3 \pm 16.1	24.2 \pm 9.7	213.7 \pm 28.4

^aDue 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 (1983-1987).

Species Year	Bay system							Upper			Lower			Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide ^a	Coastwide ^a	Coastwide ^a	Coastwide ^a	Coastwide ^a		
Atlantic croaker														
1983-84	0.1 \pm 0.1	0.0	0.0	6.9 \pm 6.9	11.6 \pm 10.9	0.2 \pm 0.1	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	0.1 \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	0.0	0.2 \pm 0.2					
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1					
Black drum														
1983-84	<.1 \pm <.1	0.0	0.0	0.1 \pm 0.1	2.5 \pm 1.8	2.5 \pm 1.5	0.0	2.5 \pm 1.5	5.1 \pm 2.4					
1984-85	<.1 \pm <.1	<.1 \pm <.1	<.1	0.1 \pm 0.1	0.2 \pm 0.2	0.5 \pm 0.4	0.0	0.5 \pm 0.4	0.8 \pm 0.5					
1985-86	0.0	0.5 \pm 0.5	0.0	0.3 \pm 0.2	0.0	0.2 \pm 0.2	<.1 \pm <.1	0.2 \pm 0.2	1.0 \pm 0.5					
1986-87	<.1 \pm <.1	<.1 \pm <.1	0.0	0.1 \pm 0.1	3.6 \pm 3.4	1.2 \pm 1.1	0.1 \pm 0.1	1.2 \pm 1.1	5.1 \pm 3.5					
Gafftopsail catfish														
1983-84	0.0	0.3 \pm 0.3	0.0	0.0	2.5 \pm 2.3	<.1 \pm <.1	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	0.0	0.1 \pm 0.1					
1985-86	0.0	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.0	0.1 \pm 0.1					
1986-87	0.0	0.1 \pm 0.1	0.4 \pm 0.3	0.2 \pm 0.2	0.0	0.0	0.0	0.0	0.7 \pm 0.3					
Red drum														
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	5.6 \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	5.9 \pm 1.6	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	8.5 \pm 2.5	4.9 \pm 2.9	8.8 \pm 2.0	0.3 \pm 0.2	8.8 \pm 2.0	23.6 \pm 4.4					
1986-87	<.1 \pm <.1	0.6 \pm 0.3	0.8 \pm 0.7	8.7 \pm 3.2	3.3 \pm 1.9	8.0 \pm 1.9	0.9 \pm 0.5	8.0 \pm 1.9	22.4 \pm 4.3					
Sand seatrout														
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	0.1 \pm 0.1	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	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 \pm <.1	1.3 \pm 0.8	3.9 \pm 2.7					
1986-87	0.4 \pm 0.3	<.1 \pm <.1	0.4 \pm 0.3	0.1 \pm 0.1	0.7 \pm 0.7	0.2 \pm 0.2	0.2 \pm 0.2	0.0	1.8 \pm 0.8					
Sheepshead														
1983-84	0.0	0.0	0.0	0.4 \pm 0.4	1.8 \pm 1.3	0.6 \pm 0.3	0.0	0.6 \pm 0.3	2.8 \pm 1.3					
1984-85	0.0	0.0	0.0	0.0	0.0	0.3 \pm 0.2	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	<.1 \pm <.1	0.0	<.1 \pm <.1	0.1 \pm 0.1					
1986-87	0.0	0.9 \pm 0.5	0.4 \pm 0.4	4.0 \pm 4.0	0.1 \pm 0.1	0.0	<.1 \pm <.1	0.0	5.4 \pm 4.0					
Southern flounder														
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	2.5 \pm 0.8	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	0.6 \pm 0.3	<.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	<.1 \pm <.1	<.1 \pm <.1	2.1 \pm 0.7	0.9 \pm 0.6	2.1 \pm 0.7	6.6 \pm 1.6					
1986-87	0.2 \pm 0.2	<.1 \pm <.1	<.1 \pm <.1	0.6 \pm 0.2	0.1 \pm 0.1	2.9 \pm 1.1	2.4 \pm 0.8	2.9 \pm 1.1	6.3 \pm 1.4					

Table F.3. (Cont'd.)

Species Year	Bay system										Coastwide ^a					
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre									
Spotted seatrout																
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	15.9 ±	6.0	9.9 ±	4.3	2.2 ±	1.2	6.6	68.0 ±	12.5	
1986-87	2.6 ±	1.7	2.2 ±	1.7	11.7 ±	7.5	24.2 ±	7.0	4.1 ±	2.2	7.7 ±	2.4	42.4 ±	10.2	94.9 ±	15.0
Other species																
1983-84	0.0	0.3	<.1	0.8	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.6	2.8	0.2	0.7	3.7
1984-85	0.1	0.0	<.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1	0.3	0.7	0.7	3.7
1985-86	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.1	<.1	<.1	<.1	0.9	0.9	0.9	3.7
1986-87	0.0	1.1	1.0	0.0	1.4	0.9	0.0	0.0	1.4	0.9	<.1	<.1	0.9	0.9	0.9	3.7
All species combined ^a																
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	27.0 ±	7.4	15.3 ±	6.2	3.6 ±	1.9	8.3	104.0 ±	15.8	
1986-87	3.3 ±	2.0	4.2 ±	2.4	14.8 ±	9.3	37.9 ±	9.1	13.3 ±	7.6	11.5 ±	3.5	55.4 ±	11.7	140.3 ±	19.7

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table F.4. Estimated landings of fishes (No. X 1000) \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 (1983-1986).

Species Year	Day type	Bay system							Coastwide ^a			
		Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
Atlantic croaker												
1983	Weekend	0.0	0.0	0.0	6.9 \pm 0.1	11.6 \pm 0.0	10.9	0.0	0.0	0.0	18.5 \pm 0.3	12.9
	Weekday	0.1 \pm 0.1	0.0	0.0	<.1 \pm <.1	0.0	0.0	0.0	0.2 \pm 0.1	0.0	0.3 \pm 0.1	0.2
1984	Weekend	0.0	0.0	0.0	0.0	0.1 \pm 0.0	0.1	0.0	0.0	0.0	0.1 \pm 0.1	0.1
	Weekday	<.1 \pm <.1	0.0	0.0	0.0	0.0	0.0	0.0	<.1 \pm <.1	0.0	0.1 \pm 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
	Weekday	0.0	0.0	0.0	<.1 \pm <.1	0.0	0.0	0.0	0.0	0.0	<.1 \pm <.1	<.1
1986	Weekend	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	0.0	0.0	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1	<.1
Black drum												
1983	Weekend	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.0	0.0	0.0	0.1 \pm 0.1	0.2 \pm 0.1
	Weekday	<.1 \pm <.1	0.0	0.0	0.0	2.5 \pm 1.8	0.0	0.0	0.2 \pm 0.1	0.0	0.2 \pm 0.1	2.8 \pm 1.8
1984	Weekend	0.0	<.1 \pm <.1	<.1 \pm <.1	0.0	0.2 \pm 0.2	0.2	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1	0.3 \pm 0.2
	Weekday	<.1 \pm <.1	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.0	0.4 \pm 0.4	0.0	0.4 \pm 0.4	0.6 \pm 0.4
1985	Weekend	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.0	0.2 \pm 0.2	0.0	0.2 \pm 0.2	0.3 \pm 0.2
	Weekday	0.0	0.5 \pm 0.5	0.0	0.0	0.0	0.0	<.1 \pm <.1	0.0	0.0	0.5 \pm 0.5	0.5
1986	Weekend	0.1 \pm 0.1	<.1 \pm <.1	0.0	<.1 \pm <.1	0.3 \pm 0.3	0.3	0.0	1.1 \pm 1.1	0.0	1.5 \pm 1.2	1.2
	Weekday	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.1 \pm 0.1	<.1 \pm <.1	<.1 \pm <.1	0.2 \pm 0.1	0.1
Gafftopsail catfish												
1983	Weekend	0.0	0.3 \pm 0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3 \pm 0.3	0.3
	Weekday	0.0	0.0	0.0	0.0	2.2 \pm 2.2	0.0	0.0	<.1 \pm <.1	0.0	2.3 \pm 2.2	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
	Weekday	0.0	0.0	0.0	0.1 \pm 0.1	<.1 \pm <.1	<.1	0.0	0.0	0.0	0.1 \pm 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
	Weekday	0.0	0.0	0.0	0.0	0.1 \pm 0.1	0.1	0.0	0.0	0.0	0.1 \pm 0.1	0.1
1986	Weekend	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	0.1 \pm 0.1	0.4 \pm 0.3	0.2 \pm 0.2	0.0	0.0	0.0	0.0	0.0	0.7 \pm 0.7	0.3

Table F.4. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Red drum												
1983												
Weekend	0.0	0.4 ± 0.2	0.3 ± 0.2	0.1 ± 0.1	0.0	0.0	0.6 ± 0.3	0.0	0.6 ± 0.3	1.4 ± 0.5	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	4.0 ± 1.2	0.0	4.0 ± 1.2	9.7 ± 2.8	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	1.0 ± 0.4	0.0	1.0 ± 0.4	5.2 ± 2.2	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	2.8 ± 1.1	0.0	2.8 ± 1.1	4.3 ± 1.3	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	3.8 ± 1.3	0.1 ± 0.1	3.8 ± 1.3	7.6 ± 2.0	0.1 ± 0.1	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	2.2 ± 1.0	0.2 ± 0.1	2.2 ± 1.0	8.7 ± 2.3	0.2 ± 0.1	8.7 ± 2.3
1986												
Weekend	0.1 ± 0.1	<.1 ± <.1	0.7 ± 0.7	1.9 ± 1.0	1.1 ± 1.0	0.1 ± 0.1	4.2 ± 1.5	0.1 ± 0.1	4.2 ± 1.5	8.1 ± 2.2	0.1 ± 0.1	8.1 ± 2.2
Weekday	0.0	0.5 ± 0.3	0.1 ± 0.1	5.4 ± 2.8	0.8 ± 0.7	0.3 ± 0.2	2.6 ± 1.0	0.3 ± 0.2	2.6 ± 1.0	9.7 ± 3.1	0.3 ± 0.2	9.7 ± 3.1
Sand seatrout												
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	0.0	9.1 ± 7.0	0.0	9.1 ± 7.0
Weekday	<.1 ± <.1	0.0	0.0	2.9 ± 1.9	7.5 ± 7.5	0.0	0.1 ± 0.1	0.0	0.1 ± 0.1	10.5 ± 7.7	0.1 ± 0.1	10.5 ± 7.7
1984												
Weekend	0.0	<.1 ± <.1	0.0	0.0	0.4 ± 0.4	0.0	0.0	0.0	0.0	0.4 ± 0.4	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	0.0	0.6 ± 0.5	0.0	0.6 ± 0.5
1985												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4 ± 0.3	0.0	0.4 ± 0.3
Weekday	2.5 ± 2.5	0.0	0.0	0.0	0.0	0.0	0.9 ± 0.7	0.0	0.9 ± 0.7	3.4 ± 2.6	0.9 ± 0.7	3.4 ± 2.6
1986												
Weekend	0.3 ± 0.3	0.0	0.0	0.1 ± 0.1	0.7 ± 0.7	<.1 ± <.1	0.0	<.1 ± <.1	0.0	1.1 ± 0.7	<.1 ± <.1	1.1 ± 0.7
Weekday	0.1 ± 0.1	<.1 ± <.1	0.4 ± 0.3	0.1 ± 0.1	0.0	0.2 ± 0.2	0.0	0.2 ± 0.2	0.0	0.8 ± 0.4	0.0	0.8 ± 0.4
Sheepshead												
1983												
Weekend	0.0	0.0	0.0	0.4 ± 0.4	0.0	0.0	0.1 ± 0.1	0.0	0.1 ± 0.1	0.5 ± 0.4	0.1 ± 0.1	0.5 ± 0.4
Weekday	0.0	0.0	0.0	0.0	1.8 ± 1.3	0.0	0.4 ± 0.2	0.0	0.4 ± 0.2	2.2 ± 1.3	0.4 ± 0.2	2.2 ± 1.3
1984												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.1	0.0	0.2 ± 0.1	0.2 ± 0.1	0.2 ± 0.1	0.2 ± 0.1
1985												
Weekend	0.0	0.0	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986												
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
Weekday	0.0	0.4 ± 0.3	0.4 ± 0.4	<.1 ± <.1	0.0	<.1 ± <.1	0.0	<.1 ± <.1	0.0	0.8 ± 0.5	0.0	0.8 ± 0.5

Table F.4. (Cont'd.)

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower 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	0.4	1.0 ± 0.4
Weekday	0.2 ± 0.1	<.1 ± <.1	0.0	0.3 ± 0.2	1.0 ± 0.9	0.0	0.0	0.0	1.6 ± 0.7	0.7	3.1 ± 1.1
1984											
Weekend	0.0	0.0	0.0	<.1 ± <.1	0.1 ± 0.1	0.0	<.1 ± <.1	0.0	0.3 ± 0.0	0.2	0.2 ± 0.1
Weekday	0.0	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2	0.0	0.2 ± 0.2	0.0	1.4 ± 0.6	0.6	0.7 ± 0.3
1985											
Weekend	0.0	0.0	0.1 ± 0.1	0.2 ± 0.1	<.1 ± <.1	0.0	0.1 ± 0.1	0.1 ± 0.1	0.5 ± 0.2	0.2	0.9 ± 0.3
Weekday	0.7 ± 0.6	<.1 ± <.1	0.0	1.1 ± 1.0	0.0	0.3 ± 0.2	0.3 ± 0.2	0.0	1.4 ± 0.6	0.6	3.6 ± 1.3
1986											
Weekend	0.0	0.0	0.0	0.2 ± 0.2	0.1 ± 0.1	0.0	0.2 ± 0.1	0.2 ± 0.1	1.3 ± 0.7	0.7	1.8 ± 0.8
Weekday	0.2 ± 0.2	<.1 ± <.1	0.0	0.3 ± 0.1	0.1 ± 0.1	0.0	0.1 ± 0.1	1.4 ± 0.7	1.1 ± 0.6	0.6	3.0 ± 0.9
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	0.1 ± 0.1	0.0	14.3 ± 3.8	3.8	39.9 ± 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	9.5	135.4 ± 44.2
1984											
Weekend	0.0	<.1 ± <.1	0.0	0.1 ± 0.1	1.1 ± 0.6	0.0	1.1 ± 0.6	0.0	8.7 ± 4.9	4.9	9.9 ± 5.0
Weekday	4.0 ± 2.6	0.0	0.4 ± 0.4	0.6 ± 0.4	1.5 ± 1.2	0.0	1.5 ± 1.2	0.0	12.4 ± 4.2	4.2	19.0 ± 5.1
1985											
Weekend	0.0	0.0	<.1 ± <.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	2.4	10.8 ± 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	0.0	9.0 ± 2.8	2.8	31.8 ± 9.1
1986											
Weekend	0.9 ± 0.9	0.1 ± 0.1	1.0 ± 0.9	4.1 ± 2.6	1.1 ± 0.7	1.1 ± 0.7	1.1 ± 0.7	1.1 ± 0.8	9.7 ± 3.7	3.7	17.9 ± 4.8
Weekday	1.8 ± 1.5	2.0 ± 1.7	10.6 ± 7.4	15.9 ± 5.3	2.3 ± 2.0	4.6 ± 1.9	4.6 ± 1.9	4.6 ± 1.9	12.4 ± 3.9	3.9	49.6 ± 10.6
Other species											
1983											
Weekend	0.0	0.2	<.1	0.4	0.7	0.0	0.0	0.0	0.0	0.0	1.4
Weekday	0.0	<.1	0.0	0.4	0.3	0.0	0.0	0.0	0.2	0.2	1.0
1984											
Weekend	0.0	0.0	<.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1
Weekday	0.1	0.0	<.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1985											
Weekend	0.0	0.0	0.0	0.0	0.0	<.1	<.1	<.1	0.2	0.2	0.2
Weekday	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.1	0.1	0.1	0.5
1986											
Weekend	0.0	<.1	<.1	0.0	<.1 ± <.1	0.0	<.1 ± <.1	<.1 ± <.1	0.5	0.5	0.6
Weekday	0.0	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.1	0.1	1.5

Table F.4. (Cont'd.)

Species Year	Bay system										Coastwide ^a				
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre							
All species combined ^a															
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
1986															
Weekend	1.3 ±	1.3	0.2 ±	0.1	1.7 ±	1.6	6.4 ±	3.3	3.2 ±	1.9	1.4 ±	17.0 ±	5.5	31.0 ±	7.1
Weekday	2.0 ±	1.6	3.5 ±	2.4	12.9 ±	9.2	22.0 ±	6.1	3.2 ±	2.2	6.6 ±	16.2 ±	4.6	66.5 ±	12.7

^aDue to rounding of numbers, these totals may not exactly equal individual species totals.

Table F.5. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre					
Day type												
Southern flounder												
1983-84												
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
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2	0.2 ± 0.2
1985-86												
Weekend	0.0	0.0	0.0	0.5 ± 0.5	0.0	0.0	0.0	0.0	0.0	<.1	<.1	0.6 ± 0.5
Weekday	0.0	0.1 ± 0.1	0.0	0.4 ± 0.3	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.1	0.2 ± 0.1	1.3 ± 0.6
1986-87												
Weekend	0.0	0.0	<.1 ± <.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5 ± 0.4	0.0	0.6 ± 0.4
Weekday	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.3 ± 0.3	0.5 ± 0.5	0.9 ± 0.6
Spotted seatrout												
1983-84												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0 ± 8.1	11.0 ± 8.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2 ± 4.5	7.2 ± 4.5
1984-85												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8 ± 7.1	8.8 ± 7.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2 ± 8.5	12.2 ± 8.5
1985-86												
Weekend	0.0	<.1 ± <.1	0.0	1.6 ± 1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.8 ± 3.2	5.4 ± 3.4
Weekday	0.0	0.2 ± 0.2	0.1 ± 0.1	8.6 ± 5.6	2.2 ± 1.5	0.0	0.0	0.0	0.0	1.2 ± 1.2	7.8 ± 4.4	20.0 ± 7.4
1986-87												
Weekend	0.0	<.1 ± <.1	0.1 ± 0.1	0.5 ± 0.5	0.7 ± 0.7	0.0	0.0	0.0	0.0	1.4 ± 1.1	11.5 ± 6.7	14.2 ± 6.8
Weekday	0.0	0.0	0.0	3.7 ± 3.7	0.0	0.0	0.0	0.0	0.0	0.7 ± 0.5	8.8 ± 5.5	13.2 ± 6.6
Other species												
1983-84												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0
1986-87												
Weekend	0.0	<.1 ± <.1	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1

Table F.5. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a		
Day type										
All species combined ^a										
1983-84										
Weekend	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	0.3 ±	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	9.7 ±	7.5	9.7 ± 7.5
Weekday	0.0	0.0	0.0	2.1 ±	0.0	0.0	0.0	13.9 ±	9.5	16.0 ± 9.7
1985-86										
Weekend	0.0	0.1 ±	0.0	2.5 ±	0.0	0.0	0.0	4.4 ±	3.3	7.0 ± 3.6
Weekday	0.0	0.4 ±	0.8 ±	9.2 ±	5.5 ±	4.1	1.8 ±	10.3 ±	5.2	27.9 ± 9.0
1986-87										
Weekend	0.0	0.5 ±	0.1 ±	4.5 ±	4.8 ±	4.8	2.4 ±	12.2 ±	7.1	28.8 ± 11.1
Weekday	0.0	0.0	0.0	5.1 ±	0.0	0.0	1.0 ±	10.0 ±	6.0	16.1 ± 7.3

^aDue 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 (1983-1987).

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
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	0.07 \pm 0.05
1984-85	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01	0.00	<.01 \pm <.01	<.01 \pm <.01
1985-86	0.00	0.03 \pm 0.03	0.00	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01
1986-87	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00
Black drum								
1983-84	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01	0.04 \pm 0.03	0.00	0.03 \pm 0.02	0.02 \pm 0.01
1984-85	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.00	0.01 \pm <.01	0.01 \pm <.01
1985-86	0.00	0.09 \pm 0.09	0.00	0.01 \pm <.01	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01
1986-87	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01	0.20 \pm 0.19	<.01 \pm <.01	0.02 \pm 0.01	0.02 \pm 0.02
Gafftopsail catfish								
1983-84	0.00	0.01 \pm 0.01	0.00	0.00	0.04 \pm 0.04	0.00	0.00	0.01 \pm 0.01
1984-85	0.00	0.00	0.00	0.01 \pm 0.01	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
1985-86	0.00	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
1986-87	0.00	0.03 \pm 0.03	0.02 \pm 0.01	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01
Red drum								
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	0.06 \pm 0.02	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	0.08 \pm 0.03	0.11 \pm 0.03
1985-86	<.01 \pm <.01	0.04 \pm 0.04	0.12 \pm 0.11	0.18 \pm 0.07	0.15 \pm 0.10	<.01 \pm <.01	0.11 \pm 0.03	0.11 \pm 0.03
1986-87	<.01 \pm <.01	0.11 \pm 0.07	0.04 \pm 0.03	0.16 \pm 0.07	0.18 \pm 0.12	0.03 \pm 0.02	0.10 \pm 0.03	0.10 \pm 0.02
Sand seatrout								
1983-84	<.01 \pm <.01	0.33 \pm 0.33	0.01 \pm 0.01	0.08 \pm 0.05	0.15 \pm 0.14	0.00	<.01 \pm <.01	0.08 \pm 0.04
1984-85	<.01 \pm <.01	0.01 \pm 0.01	0.82 \pm 0.82	0.00	0.02 \pm 0.02	0.00	0.00	0.01 \pm <.01
1985-86	0.24 \pm 0.24	0.00	0.00	0.00	0.00	<.01 \pm <.01	0.02 \pm 0.01	0.02 \pm 0.01
1986-87	0.05 \pm 0.05	<.01 \pm <.01	0.02 \pm 0.02	<.01 \pm <.01	0.04 \pm 0.04	0.01 \pm 0.01	0.00	0.01 \pm <.01
Sheepshead								
1983-84	0.00	0.00	0.00	0.01 \pm 0.01	0.03 \pm 0.02	0.00	0.01 \pm <.01	0.01 \pm 0.01
1984-85	0.00	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01
1985-86	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01
1986-87	0.00	0.17 \pm 0.11	0.02 \pm 0.02	0.08 \pm 0.08	0.01 \pm 0.01	0.00	0.00	0.02 \pm 0.02
Southern flounder								
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	0.02 \pm 0.01	0.02 \pm 0.01
1984-85	0.00	0.00	0.00	0.01 \pm 0.01	0.01 \pm 0.01	0.06 \pm 0.06	0.01 \pm <.01	0.01 \pm <.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	0.02 \pm 0.02	0.03 \pm 0.01	0.03 \pm 0.01
1986-87	0.03 \pm 0.03	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	0.09 \pm 0.04	0.04 \pm 0.02	0.03 \pm 0.01

Table F.6. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
Spotted seatrout									
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	
1986-87	0.37 ± 0.28	0.42 ± 0.35	0.52 ± 0.42	0.46 ± 0.16	0.23 ± 0.14	0.28 ± 0.12	0.53 ± 0.17	0.44 ± 0.09	
Other species									
1983-84	0.00	0.01	<.01	0.02	0.02	0.00	0.01	0.01	0.01
1984-85	0.01	0.00	0.07	0.00	0.00	0.00	0.00	0.00	<.01
1985-86	0.00	0.00	0.00	0.00	0.01	<.01	<.01	<.01	<.01
1986-87	0.00	0.19	0.05	0.00	0.08	<.01 ± <.01	0.04	0.04	0.03
All species combined^a									
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	
1986-87	0.47 ± 0.34	0.81 ± 0.54	0.65 ± 0.52	0.72 ± 0.22	0.74 ± 0.48	0.41 ± 0.19	0.69 ± 0.21	0.66 ± 0.13	

^aDue 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 (1983-1986). Blank = no fishermen interviewed.

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
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	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
Weekday		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	0.00	0.00
Weekday	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm 0.01
1986								
Weekend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00
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	<.01 \pm <.01	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		0.00	0.00	0.00	0.01 \pm 0.01	0.00	0.01 \pm 0.01	0.01 \pm 0.01
1985								
Weekend	0.00	0.12	0.00	0.01 \pm 0.01	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01
Weekday	0.00	0.00	0.00	0.00	0.00	0.01 \pm 0.01	0.00	0.01 \pm 0.01
1986								
Weekend	0.04 \pm 0.04	0.01 \pm 0.01	0.00	<.01 \pm <.01	0.03 \pm 0.03	0.00	0.05 \pm 0.05	0.03 \pm 0.02
Weekday	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.01 \pm 0.01	<.01 \pm <.01	<.01 \pm <.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	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	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
1986								
Weekend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.04 \pm 0.04	0.02 \pm 0.02	0.01 \pm <.01	0.00	0.00	0.00	0.01 \pm <.01

Table F.7. (Cont'd.)

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
Red drum											
1983											
Weekend	0.00	0.03 ± 0.02	0.24 ± 0.19	0.01 ± 0.01	0.00	0.03 ± 0.03	0.04 ± 0.02	0.00	0.04 ± 0.02	0.03 ± 0.01	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	0.00	0.09 ± 0.03	0.00	0.09 ± 0.03	0.06 ± 0.03	0.06 ± 0.03
1984											
Weekend	0.03 ± 0.03	0.31 ± 0.31	0.00	0.60 ± 0.54	0.11 ± 0.08	0.00	0.07 ± 0.04	0.00	0.07 ± 0.04	0.15 ± 0.07	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	0.09 ± 0.05	0.00	0.09 ± 0.05	0.08 ± 0.03	0.08 ± 0.03
1985											
Weekend	<.01 ± <.01	0.03 ± 0.03	0.00	0.28 ± 0.16	0.27 ± 0.27	0.11 ± 0.10	0.11 ± 0.04	0.11 ± 0.10	0.11 ± 0.04	0.14 ± 0.05	0.14 ± 0.05
Weekday	0.04 ± 0.04	0.01 ± 0.01	0.04 ± 0.04	0.29 ± 0.15	0.07 ± 0.05	0.12 ± 0.09	0.08 ± 0.04	0.12 ± 0.09	0.08 ± 0.04	0.11 ± 0.04	0.11 ± 0.04
1986											
Weekend	0.00	0.14 ± 0.11	0.20 ± 0.20	0.18 ± 0.11	0.13 ± 0.12	0.05 ± 0.04	0.18 ± 0.08	0.05 ± 0.04	0.18 ± 0.08	0.16 ± 0.05	0.16 ± 0.05
Weekday	0.00	0.14 ± 0.11	0.01 ± 0.01	0.17 ± 0.10	0.16 ± 0.15	0.02 ± 0.01	0.13 ± 0.06	0.02 ± 0.01	0.13 ± 0.06	0.10 ± 0.04	0.10 ± 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	0.00	0.00	0.17 ± 0.14	0.17 ± 0.14
Weekday	<.01 ± <.01	0.00	0.00	0.12 ± 0.08	0.14 ± 0.14	0.00	<.01 ± <.01	0.00	<.01 ± <.01	0.07 ± 0.05	0.07 ± 0.05
1984											
Weekend	<.01 ± <.01	0.00	0.00	0.00	0.02 ± 0.02	0.00	0.00	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01
Weekday	<.01 ± <.01	0.01 ± 0.01	0.97 ± 0.97	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01
1985											
Weekend	0.24 ± 0.24	0.00	0.00	0.00	0.00	0.00	0.01 ± 0.01	0.00	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
Weekday	0.24 ± 0.24	0.00	0.00	0.00	0.00	0.00	0.03 ± 0.03	0.00	0.03 ± 0.03	0.04 ± 0.04	0.04 ± 0.04
1986											
Weekend	0.22 ± 0.22	0.00	0.00	0.01 ± 0.01	0.08 ± 0.08	0.01 ± 0.01	0.00	0.01 ± 0.01	0.00	0.02 ± 0.02	0.02 ± 0.02
Weekday	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.02	<.01 ± <.01	0.00	<.01 ± <.01	0.00	0.01 ± 0.01	0.00	0.01 ± <.01	0.01 ± <.01
Sheepshead											
1983											
Weekend	0.00	0.00	0.00	0.03 ± 0.03	0.00	0.00	0.01 ± 0.01	0.00	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
Weekday	0.00	0.00	0.00	0.00	0.03 ± 0.03	0.00	0.01 ± <.01	0.00	0.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01
1984											
Weekend	0.00	0.00	0.00	0.00	0.00	0.00	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
Weekday	0.00	0.00	0.00	0.00	0.00	0.00	0.01 ± 0.01	0.00	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01
1985											
Weekend	0.00	0.00	0.00	<.01 ± <.01	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	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1986											
Weekend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.12 ± 0.09	0.02 ± 0.02	<.01 ± <.01	0.00	<.01 ± <.01	0.00	<.01 ± <.01	0.00	0.01 ± 0.01	0.01 ± 0.01

Table F.7. (Cont'd.)

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower 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	0.02 ± 0.01	0.02 ± 0.01
Weekday	0.01 ± 0.01	<0.01 ± <0.01	0.00	0.01 ± 0.01	0.02 ± 0.02	0.01 ± <0.01	0.05 ± 0.05	0.04 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01
1984											
Weekend		0.00	0.00	0.01 ± 0.01	0.01 ± <0.01	0.01 ± <0.01	0.05 ± 0.05	0.00	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01
Weekday	0.00	0.00	0.00	0.02 ± 0.02	0.05 ± 0.05	0.01 ± <0.01	0.05 ± 0.05	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1985											
Weekend			0.86 ± 0.86	0.02 ± 0.01	0.00	0.00	0.00	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 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	0.01 ± <0.01	0.05 ± 0.03	0.05 ± 0.02	0.05 ± 0.02	0.05 ± 0.02
1986											
Weekend	0.00	0.00	0.00	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.06 ± 0.03	0.04 ± 0.02	0.04 ± 0.02	0.04 ± 0.02
Weekday	0.04 ± 0.04	0.01 ± 0.01	0.00	0.01 ± <0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.05 ± 0.03	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01
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	0.02 ± 0.02	1.02 ± 0.37	0.77 ± 0.26	0.77 ± 0.26	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	0.79 ± 0.77	0.94 ± 0.31	0.88 ± 0.39	0.88 ± 0.39	0.88 ± 0.39
1984											
Weekend			0.00	0.03 ± 0.03	0.06 ± 0.04	0.06 ± 0.04	0.06 ± 0.04	0.67 ± 0.43	0.28 ± 0.16	0.28 ± 0.16	0.28 ± 0.16
Weekday	0.39 ± 0.30	0.23 ± 0.23	0.84 ± 0.84	0.07 ± 0.06	0.39 ± 0.37	0.39 ± 0.37	0.39 ± 0.37	0.42 ± 0.19	0.35 ± 0.13	0.35 ± 0.13	0.35 ± 0.13
1985											
Weekend			0.01 ± 0.01	0.20 ± 0.12	0.29 ± 0.25	0.29 ± 0.25	0.29 ± 0.25	0.21 ± 0.08	0.21 ± 0.06	0.21 ± 0.06	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	0.49 ± 0.34	0.34 ± 0.14	0.42 ± 0.14	0.42 ± 0.14	0.42 ± 0.14
1986											
Weekend	0.63 ± 0.63	0.34 ± 0.33	0.28 ± 0.28	0.38 ± 0.27	0.13 ± 0.10	0.13 ± 0.10	0.13 ± 0.10	0.41 ± 0.18	0.36 ± 0.12	0.36 ± 0.12	0.36 ± 0.12
Weekday	0.31 ± 0.28	0.55 ± 0.50	0.56 ± 0.50	0.52 ± 0.21	0.48 ± 0.43	0.48 ± 0.43	0.48 ± 0.43	0.61 ± 0.25	0.49 ± 0.14	0.49 ± 0.14	0.49 ± 0.14
Other species											
1983											
Weekend	0.00	0.02	0.01	0.03	0.15	0.15	0.15	0.00	0.03	0.03	0.03
Weekday	0.00	<0.01	0.00	0.02	0.01	0.01	0.01	<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	0.00	0.00
Weekday	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.00	<0.01	<0.01	<0.01
1985											
Weekend			0.00	0.00	0.00	0.00	0.00	0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01
Weekday	0.00	0.00	0.00	0.00	0.02	0.02	0.02	<0.01 ± <0.01	0.01 ± <0.01	0.01 ± <0.01	0.01 ± <0.01
1986											
Weekend	0.00	0.03	0.01	0.00	<0.01 ± <0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.02	0.01	0.01	0.01
Weekday	0.00	0.08	0.05	0.00	0.00	0.00	0.00	<0.01 ± <0.01	0.02	0.02	0.02

Table F.7. (Cont'd.)

Species Year	Bay system										
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide			
All species combined ^a											
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	0.44 ± 0.34	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		0.19 ± 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	0.80 ± 0.74	1.73 ± 1.72	0.09 ± 0.09	0.50 ± 0.27	0.56 ± 0.42		0.35 ± 0.13	0.39 ± 0.11			
Weekday			0.16 ± 0.16	0.56 ± 0.29	0.59 ± 0.41	0.53 ± 0.42	0.51 ± 0.22	0.64 ± 0.20			
1986											
Weekend	0.93 ± 0.93	0.39 ± 0.36	0.50 ± 0.49	0.59 ± 0.36	0.38 ± 0.28	0.70 ± 0.56	0.71 ± 0.30	0.62 ± 0.18			
Weekday	0.36 ± 0.31	0.95 ± 0.76	0.69 ± 0.61	0.71 ± 0.26	0.65 ± 0.52	0.39 ± 0.22	0.80 ± 0.31	0.66 ± 0.18			

^aDue 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 (1983-1987). Blank = no fishermen interviewed.

Species Year Day type	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
1983-84 Weekend							0.00	0.00
Weekday					0.00		0.00	0.00
1984-85 Weekend				0.00			<.01 \pm <.01	<.01 \pm <.01
Weekday				0.00			0.00	0.00
1985-86 Weekend		0.00					0.00	0.00
Weekday		0.17 \pm 0.17	0.00				0.00	<.01 \pm <.01
1986-87 Weekend		0.00	0.00				0.00	0.00
Weekday		0.00					0.00	0.00
Black drum								
1983-84 Weekend							0.16 \pm 0.15	0.16 \pm 0.15
Weekday					0.00		0.02 \pm 0.02	0.01 \pm 0.01
1984-85 Weekend							0.00	0.00
Weekday							0.00	0.00
1985-86 Weekend						0.01 \pm 0.01	0.00	<.01 \pm <.01
Weekday						0.02 \pm 0.02	0.00	<.01 \pm <.01
1986-87 Weekend		0.03 \pm 0.03	0.00				0.00	0.09 \pm 0.09
Weekday		0.00	0.00		0.69 \pm 0.69		0.00	0.00
Gafftopsail catfish								
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
Weekday							0.00	0.00
1985-86 Weekend							0.00	0.00
Weekday							0.00	0.00
1986-87 Weekend							0.00	0.00
Weekday							0.00	0.00

Table F.8. (Cont'd.)

Species Year	Bay system								Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre			
Southern flounder										
1983-84						0.00	0.00	0.00	0.00	0.00
Weekend								0.00		0.00
Weekday								0.00		0.00
1984-85				0.00				<.01 ± <.01		<.01 ± <.01
Weekend				0.00				0.01 ± 0.01		0.01 ± 0.01
Weekday				0.00				0.01 ± 0.01		0.01 ± 0.01
1985-86				0.08 ± 0.08				<.01 ± <.01		0.04 ± 0.04
Weekend		0.00	0.00	0.05 ± 0.04				0.02 ± 0.01		0.02 ± 0.01
Weekday		0.08 ± 0.08	0.00	0.00		0.01 ± 0.01		0.02 ± 0.01		0.04 ± 0.04
1986-87		0.00	0.11 ± 0.11	0.02 ± 0.02		0.27 ± 0.24		0.00		0.02 ± 0.01
Weekend		0.00				0.04 ± 0.04		0.05 ± 0.05		0.04 ± 0.03
Weekday		0.00								0.04 ± 0.03
Spotted seatrout										
1983-84								1.07 ± 0.89		1.07 ± 0.89
Weekend								0.26 ± 0.21		0.21 ± 0.16
Weekday										
1984-85				0.00				0.56 ± 0.50		0.53 ± 0.47
Weekend				0.00				0.72 ± 0.60		0.57 ± 0.46
Weekday										
1985-86				0.22 ± 0.19				0.46 ± 0.42		0.34 ± 0.24
Weekend		0.05 ± 0.05	0.04 ± 0.04	0.88 ± 0.69		0.14 ± 0.12		0.72 ± 0.49		0.25 ± 0.15
Weekday		0.17 ± 0.17								
1986-87		0.02 ± 0.02	0.22 ± 0.22	0.10 ± 0.10		0.14 ± 0.14		0.45 ± 0.34		0.37 ± 0.22
Weekend		0.00		0.61 ± 0.61				0.81 ± 0.62		0.55 ± 0.33
Weekday										
Other species										
1983-84								0.04		0.04
Weekend								0.00		0.00
Weekday										
1984-85				0.00				<.01		<.01
Weekend				0.00				0.00		0.00
Weekday										
1985-86				0.00				0.00		0.00
Weekend		0.00	0.00	0.00				0.00		0.00
Weekday		0.00	0.00	0.00				0.00		0.00
1986-87		0.02 ± 0.02	0.00	0.29 ± 0.29		0.00		0.00		0.04 ± 0.04
Weekend		0.00	0.00					0.01 ± 0.01		0.03
Weekday		0.00	0.00							

Table F.8. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
All species combined ^a								
1983-84								
Weekend								1.27 ± 0.99
Weekday								0.31 ± 0.26
1984-85								
Weekend				0.00				0.62 ± 0.54
Weekday				0.48 ± 0.48				0.82 ± 0.68
1985-86								
Weekend		0.30 ± 0.30						0.53 ± 0.45
Weekday		0.42 ± 0.42	0.35 ± 0.35	0.34 ± 0.27	0.35 ± 0.31	0.04 ± 0.04		0.44 ± 0.61
1986-87								
Weekend		0.81 ± 0.64	0.33 ± 0.33	0.93 ± 0.93	1.44 ± 1.44	1.20 ± 1.10		0.48 ± 0.36
Weekday		0.00		0.84 ± 0.76		0.15 ± 0.14		0.92 ± 0.69

^aDue 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 (1979-1986)^a. ND = no data. Number in parenthesis indicates number of interviews.

Bay system Year	Spotted seatrout	Other	Total
Galveston			
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
1986 (3)	0.52 ± 0.41	0.10	0.62 ± 0.49
Matagorda^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
1986 (5)	0.18 ± 0.15	0.34	0.52 ± 0.40
San Antonio^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
1986 (5)	0.63 ± 0.58	0.15	0.78 ± 0.70
Aransas^c			
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
1986 (21)	0.52 ± 0.22	0.23	0.75 ± 0.28
Corpus Christi^c			
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
1986 (10)	0.30 ± 0.23	0.23	0.53 ± 0.35

Table F.9. (Cont'd.)

Bay system Year	Spotted seatrout	Other	Total
Upper Laguna Madre ^c			
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
1986 (14)	0.24 ± 0.17	0.15	0.39 ± 0.27
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
1986 (58)	0.49 ± 0.19	0.24	0.73 ± 0.27
Coastwide ^d			
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
1986 (116)	0.46 ± 0.12	0.21	0.67 ± 0.15

^a 1979-1982 data from McEachron (1984).

^b Matagorda and San Antonio data were combined during 1979-1982.

^c Aransas, Corpus Christi, and Upper Laguna Madre data were combined during 1979-1982.

^d 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 (1983-1987). 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	0.24			0.46 \pm <0.01	0.30 \pm 0.02	0.40 \pm 0.02	0.40 \pm 0.02	0.36 \pm 0.01
1984-85	0.14				0.31	0.42 \pm 0.08	0.42 \pm 0.08	0.33 \pm 0.17
1985-86				0.20				0.20
1986-87						0.45		0.45
Black drum								
1983-84	1.21			1.03	0.80	2.05 \pm 0.21	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	2.01 \pm 0.03	1.84 \pm 0.74
1985-86		0.64		0.72		3.06 \pm 0.10	3.06 \pm 0.10	1.10 \pm 0.57
1986-87	1.11	1.67 \pm 0.65		0.48 \pm 0.20	1.36 \pm 0.09	0.84 \pm 0.21	0.80 \pm 0.04	1.20 \pm 0.16
Gafftopsail catfish								
1983-84		0.70		0.72	1.76 \pm 0.01	3.60	3.60	1.65 \pm 0.09
1984-85					0.67			0.72
1985-86					0.55			0.55
1986-87		1.18	1.13 \pm 0.68	0.84 \pm 0.21				1.06 \pm 0.10
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	1.44 \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	2.12 \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
1986-87	1.41	1.86 \pm 0.47	1.56 \pm 0.50	2.00 \pm 0.09	2.72 \pm 0.34	1.57 \pm 0.11	2.14 \pm 0.19	2.11 \pm 0.11
Sand seatrout								
1983-84	0.47	0.27	0.26	0.23 \pm 0.02	0.34 \pm 0.01	0.23	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
1986-87	0.23 \pm 0.05	0.28	0.27 \pm 0.12	0.32 \pm 0.04		0.34 \pm 0.08		0.27 \pm 0.02
Sheepshead								
1983-84				0.68	0.96 \pm 0.17	0.62 \pm 0.08	0.62 \pm 0.08	0.85 \pm 0.22
1984-85				0.98		0.97 \pm 0.20	0.97 \pm 0.20	0.97 \pm 0.20
1985-86		1.42 \pm 0.20		2.64	0.52	0.69	0.69	0.85
1986-87						0.98		2.38 \pm 0.31
Southern flounder								
1983-84	0.45 \pm 0.16			0.32 \pm 0.10	0.55 \pm 0.06	0.72 \pm 0.05	0.72 \pm 0.05	0.64 \pm 0.06
1984-85				0.62 \pm 0.08	1.55	0.57 \pm 0.08	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	0.52 \pm 0.07	0.52 \pm 0.07	0.52 \pm 0.07
1986-87	1.22	0.51	0.40	0.88 \pm 0.17	1.01 \pm 0.08	0.75 \pm 0.04	0.75 \pm 0.04	0.79 \pm 0.03

Table F.10. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
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		
1986-87	0.65 ± 0.05	0.70 ± 0.02	0.70 ± 0.06	0.73 ± 0.05	0.78 ± 0.09	0.76 ± 0.03	0.84 ± 0.04	0.78 ± 0.04		
All species combined ^a										
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		
1986-87	0.57 ± 0.07	1.19 ± 0.13	0.98 ± 0.30	1.16 ± 0.14	1.43 ± 0.19	0.84 ± 0.05	1.07 ± 0.08	1.09 ± 0.05		

^aIncludes "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 (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year Day type	Bay system							Coastwide	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
Atlantic croaker									
1983									
Weekend				0.47	0.30 \pm 0.02			0.40 \pm 0.02	0.36 \pm 0.19
Weekday	0.24			0.40					0.34 \pm 0.14
1984									
Weekend					0.31			0.33	0.31
Weekday	0.14								0.22 \pm 0.22
1985									
Weekend				0.20					0.20
Weekday									
1986									
Weekend									
Weekday						0.45			0.45
Black drum									
1983									
Weekend				1.03	0.80			0.21	0.43 \pm 0.43
Weekday	1.21							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
1986									
Weekend	1.11	0.50		0.68	0.74			0.78 \pm 0.03	0.78 \pm 0.02
Weekday				0.28		0.84 \pm 0.21		1.41	0.77 \pm 0.02
Gafftopsail catfish									
1983									
Weekend									
Weekday		0.70			1.75			3.60	0.70
1984									
Weekend									
Weekday				0.72	0.67				0.72 \pm 0.72
1985									
Weekend									
Weekday					0.55				0.55
1986									
Weekend									
Weekday	1.18		1.13 \pm 0.68	0.84 \pm 0.21					1.06 \pm 0.10

Table F.11. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
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
1986									
Weekend		3.56	1.26	1.97 ± 0.10	3.07 ± 0.31	1.73 ± 0.36		2.11 ± 0.29	2.13 ± 0.17
Weekday	1.41	1.53 ± 0.43	3.06	2.00 ± 0.14	2.89 ± 0.27	1.36 ± 0.12		2.19 ± 0.16	2.09 ± 0.11
Sand seatrout									
1983									
Weekend				0.44	0.36 ± 0.02			0.23	0.29 ± 0.22
Weekday	0.47	0.27	0.26	0.22 ± 0.01	0.33				0.50 ± 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
1986									
Weekend				0.35				0.42	0.23 ± 0.04
Weekday	0.20			0.26				0.27	0.28 ± 0.02
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				0.69	0.98
Weekday									0.69
1986									
Weekend				2.64				0.98	1.11 ± 0.27
Weekday		0.94 ± 0.24							

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										
Weekday	0.45 ± 0.16				0.55 ± 0.06				0.72 ± 0.09	0.62 ± 0.07
1984										
Weekend					1.55				0.57 ± 0.08	1.35 ± 1.35
Weekday									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
1986										
Weekend				1.08 ± 0.25	1.13	0.80 ± 0.01			0.74 ± 0.04	0.80 ± 0.07
Weekday	1.22	0.51		0.74 ± 0.20	0.95	0.70 ± 0.06			0.77 ± 0.04	0.77 ± 0.05
Spotted seatrout										
1983										
Weekend	0.78 ± 0.06	0.44 ± 0.02	0.38	0.46 ± 0.08					0.78 ± 0.08	0.63 ± 0.08
Weekday	1.27 ± 0.22	0.51 ± 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
1986										
Weekend	0.59	0.82 ± 0.21	0.51	0.85 ± 0.06	0.69 ± 0.02	0.69 ± 0.03			0.88 ± 0.05	0.82 ± 0.05
Weekday	0.68 ± 0.10	0.68	0.72 ± 0.08	0.66 ± 0.04	0.90 ± 0.11	0.81 ± 0.03			0.82 ± 0.07	0.74 ± 0.04
All species combined ^a										
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
1986										
Weekend	0.50	1.21 ± 0.59	2.33 ± 2.60	1.32 ± 0.08	1.75 ± 0.19	0.88 ± 0.19			1.20 ± 0.14	1.30 ± 0.11
Weekday	0.63 ± 0.15	1.00 ± 0.03	0.77 ± 0.09	1.09 ± 0.21	1.52 ± 0.35	0.79 ± 0.03			0.97 ± 0.08	0.97 ± 0.07

^aIncludes "other" species.

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										
Weekend										0.50
Weekday										0.50
1984-85										
Weekend										1.09
Weekday										0.47
1985-86										
Weekend										0.60 ± 0.60
Weekday										0.90 ± 0.08
1986-87										
Weekend										0.77 ± 0.05
Weekday										0.70
Spotted seatrout										
1983-84										
Weekend										1.07 ± 0.07
Weekday										0.72 ± 0.07
1984-85										
Weekend										0.68 ± 0.03
Weekday										0.78 ± 0.13
1985-86										
Weekend										0.71 ± 0.11
Weekday										0.96 ± 0.22
1986-87										
Weekend										0.73 ± 0.17
Weekday										0.83 ± 0.04
All species combined ^a										
1983-84										
Weekend										1.18 ± 0.13
Weekday										0.83 ± 0.03
1984-85										
Weekend										0.67 ± 0.07
Weekday										1.00 ± 0.33
1985-86										
Weekend										1.16 ± 0.05
Weekday										1.47 ± 0.19
1986-87										
Weekend										1.02 ± 0.13
Weekday										0.65 ± 0.08

^aIncludes "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 (1983-1987). 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	265			326 \pm 1	281 \pm 7			310 \pm 8	298 \pm 20
1984-85	226			250	287			315 \pm 20	289 \pm 102
1985-86							324		250
1986-87									324
Black drum									
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
1986-87	429	471 \pm 74		319 \pm 47	453 \pm 13	383 \pm 29		377 \pm 6	431 \pm 22
Gafftopsail catfish									
1983-84		424			566 \pm 1			710	551 \pm 50
1984-85				430	420				429 \pm 376
1985-86					395				395
1986-87		500	470 \pm 100	441 \pm 41					468 \pm 12
Red drum									
1983-84	430	502 \pm 16	520 \pm 25	486 \pm 18	476 \pm 70			501 \pm 13	495 \pm 20
1984-85	647 \pm 19	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
1986-87	510	543 \pm 44	517 \pm 47	559 \pm 6	626 \pm 27	521 \pm 12		572 \pm 17	570 \pm 11
Sand seatrout									
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
1986-87	276 \pm 17	300	287 \pm 40	310 \pm 13		317 \pm 23			291 \pm 8
Sheepshead									
1983-84				337	376 \pm 20			325 \pm 14	359 \pm 52
1984-85				385				374 \pm 26	374 \pm 26
1985-86				543	308			341	365
1986-87		425 \pm 26				385			517 \pm 31
Southern flounder									
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
1986-87	442	355	328	408 \pm 24	441 \pm 12	397 \pm 8		393 \pm 5	397 \pm 3

Table F.13. (Cont'd.)

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
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	412 ± 14	451 ± 26	401 ± 4	408 ± 3	
1985-86	392 ± 6	424	373 ± 5	413 ± 7	412 ± 6	432 ± 8	420 ± 47	
1986-87	407 ± 9	416 ± 3	414 ± 14	419 ± 8	431 ± 16	436 ± 6	426 ± 5	
All species combined ^a								
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	416 ± 14	448 ± 11	
1986-87	382 ± 20	442 ± 13	424 ± 19	470 ± 15	484 ± 23	428 ± 6	456 ± 7	

^aIncludes "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 (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year Day type	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
1983								
Weekend				326	281 \pm 7			298 \pm 92
Weekday	265			312			310 \pm 8	293 \pm 29
1984					287			287
Weekend							295	255 \pm 180
Weekday	226							
1985								
Weekend				250				250
Weekday								
1986								
Weekend								
Weekday					324			324
Black drum								
1983								
Weekend				419	375		245	292 \pm 169
Weekday	442						515 \pm 34	385 \pm 331
1984					503			
Weekend		425	429	430			512	483 \pm 452
Weekday	565						511 \pm 0	501 \pm 57
1985								
Weekend				370			602 \pm 7	522 \pm 132
Weekday		354				408		356
1986								
Weekend		330		365	366		374 \pm 4	375 \pm 3
Weekday	429		272			383 \pm 29	465	365 \pm 39
Gafftopsail catfish								
1983								
Weekend								424
Weekday		424			565		710	568
1984								
Weekend				430	420			429 \pm 376
Weekday								
1985								
Weekend					395			395
Weekday								
1986								
Weekend				470 \pm 100				468 \pm 12
Weekday	500		441 \pm 41					

Table F.14. (Cont'd.)

Species Year	Bay system								Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
Red drum									
1983									
Weekend		469	532 + 16	562 + 19			446 + 12	479 + 92	
Weekday	430	512 + 14	420	482 + 22			509 + 15	496 + 29	
1984									
Weekend		605		509			561 + 8	553 + 194	
Weekday	647 + 19	517 + 38		663			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	
1986									
Weekend		692	489	561 + 9	654 + 27	531 + 34	569 + 25	571 + 15	
Weekday	510	511 + 40	657	555 + 9	637 + 26	499 + 14	579 + 14	566 + 11	
Sand seatrout									
1983									
Weekend		293	290	344	320 + 4		281	300 + 189	
Weekday	352			275 + 5	309			299 + 223	
1984									
Weekend					304			304	
Weekday	281	336			335			302 + 244	
1985									
Weekend							262 + 0	262 + 0	
Weekday	296						306 + 20	298 + 226	
1986									
Weekend	266			320		340		279 + 16	
Weekday	336	300	287 + 40	290		294		294 + 6	
Sheepshead									
1983									
Weekend				337			392	351 + 278	
Weekday					376 + 20		320 + 11	366 + 16	
1984									
Weekend							458	458	
Weekday				385			356 + 14	356 + 14	
1985									
Weekend							341	385	
Weekday								341	
1986									
Weekend				543		385		379 + 29	
Weekday		360 + 20							

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	336 ± 40			300 ± 35	361 ± 13		390 ± 15				390 ± 15
Weekday							390 ± 9				369 ± 10
1984				398 363	506		364 ± 18				470 ± 273 363 ± 105
1985			364	376 ± 21	265	345	363 ± 14				363 ± 128
Weekend	288 ± 4	352		362 ± 9		348 ± 10	338 ± 23				336 ± 16
Weekday											
1986				430 ± 30	458	403	388 ± 7				397 ± 9
Weekend	442	355		391 ± 36	432	384 ± 14	399 ± 7				395 ± 7
Weekday											
Spotted seatrout											
1983											
Weekend	435 ± 11	362 ± 3	343	359 ± 20	410 ± 34		425 ± 15				396 ± 15
Weekday	504 ± 24	376 ± 4	374 ± 4	359 ± 6			415 ± 16				400 ± 14
1984				419	480 ± 23		392 ± 7				403 ± 8
Weekend	450 ± 4	499		406 ± 24	418 ± 14		397 ± 6				410 ± 4
Weekday											
1985			370	411 ± 18	381	381 ± 4	422 ± 12				416 ± 34
Weekend	392 ± 6	424		415 ± 11	413 ± 7	415 ± 8	432 ± 9				417 ± 93
Weekday											
1986			378	439 ± 11	416 ± 4	413 ± 4	442 ± 7				432 ± 7
Weekend	397	438 ± 30	418 ± 20	409 ± 6	452 ± 21	429 ± 5	434 ± 11				421 ± 6
Weekday	414 ± 18	413 ± 1									
All species combined ^a											
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				478	506 ± 41		430 ± 22				457 ± 59
Weekend	478 ± 31	542	368	453 ± 84	484 ± 66		437 ± 12				450 ± 15
Weekday		444 ± 6									
1985			364	471 ± 2	466 ± 79	413 ± 36	476 ± 20				471 ± 28
Weekend	353 ± 15	415	477	466 ± 18	448 ± 7	433 ± 19	441 ± 15				428 ± 16
Weekday											
1986			500 ± 121	492 ± 12	517 ± 22	438 ± 13	470 ± 16				474 ± 9
Weekend	351	464 ± 49	412 ± 15	459 ± 22	510 ± 26	421 ± 4	455 ± 9				444 ± 10
Weekday	409 ± 18	427 ± 10									

^aIncludes "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 (1983-1987). 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	
Atlantic croaker							
1983-84 Weekend							
1984-85 Weekend						335	335
1985-86 Weekend							
1986-87 Weekend							
1983-84 Weekday							
1984-85 Weekday							
1985-86 Weekday							
1986-87 Weekday							
Black drum							
1983-84 Weekend							
1984-85 Weekend						543 \pm 1	543 \pm 1
1985-86 Weekend						482 \pm 43	482 \pm 43
1986-87 Weekend							
1983-84 Weekday							
1984-85 Weekday							
1985-86 Weekday							
1986-87 Weekday							
Gafftopsail catfish							
1983-84 Weekend							
1984-85 Weekend							
1985-86 Weekend							
1986-87 Weekend							
1983-84 Weekday							
1984-85 Weekday							
1985-86 Weekday							
1986-87 Weekday							
1983-84 Weekend					460		461 \pm 1
1984-85 Weekend							
1985-86 Weekend							
1986-87 Weekend							
1983-84 Weekday							
1984-85 Weekday							
1985-86 Weekday							
1986-87 Weekday							
1983-84 Weekend							
1984-85 Weekend							
1985-86 Weekend							
1986-87 Weekend							
1983-84 Weekday							
1984-85 Weekday							
1985-86 Weekday							
1986-87 Weekday							

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												
Weekend											353	353
Weekday												
1984-85												
Weekend												
Weekday												
1985-86												
Weekend												
Weekday				350		394					452	452
1986-87											345	369
Weekend			328									
Weekday				400		422 ± 3						415 ± 14
Spotted seatrout												
1983-84												
Weekend												
Weekday												
1984-85												
Weekend												
Weekday												
1985-86												
Weekend												
Weekday			392		418 ± 3							465 ± 10
1986-87												
Weekend			398									
Weekday		391		412								414 ± 14
All species combined ^a												
1983-84												
Weekend												
Weekday												
1984-85												
Weekend												
Weekday												
1985-86												
Weekend												
Weekday												
1986-87												
Weekend												
Weekday												
All species combined ^a												
1983-84												
Weekend												
Weekday												
1984-85												
Weekend												
Weekday												
1985-86												
Weekend												
Weekday												
1986-87												
Weekend												
Weekday												
All species combined ^a												
1983-84												
Weekend												
Weekday												
1984-85												
Weekend												
Weekday												
1985-86												
Weekend												
Weekday												
1986-87												
Weekend												
Weekday												

^aIncludes "Other" species

Table F.16. (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		
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 capricornis</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									
			Gray snapper	<u>Lutjanus griseus</u>								10.00	3.70
			Southern kingfish	<u>Menticirrhus americanus</u>								30.00	11.11
			Stingrays sp.	Family Dasyatidae									
			Atlantic stingray	<u>Dasyatis sabina</u>									
			Toadfishes sp.	Family Batrachoididae			14.29			33.33			3.70
													7.41
	Weekday		Atlantic cutlass fish	<u>Trichiurus lepturus</u>									12.50
			Crevalle jack	<u>Caranx hippos</u>						50.00			6.25
			Florida pompano	<u>Trachinotus carolinus</u>						25.00			6.25
			Greater barracuda	<u>Sphyrna barracuda</u>						25.00			6.25
			Ladyfish	<u>Elops saurus</u>					88.89			33.33	6.25
			Sharks sp.									66.67	62.50
			Bonnethead	<u>Sphyrna tiburo</u>					11.11				6.25
			Cero	<u>Scomberomorus regalis</u>									8.00
			Florida pompano	<u>Trachinotus carolinus</u>				28.57				11.76	8.00
			Gulf flounder	<u>Paralichthys abligutta</u>						100.00		11.76	12.00
			King kingfish	<u>Menticirrhus littoralis</u>				14.29					4.00
			King mackerel	<u>Scomberomorus cavalla</u>				28.57					8.00
			Ladyfish	<u>Elops saurus</u>				14.29				5.88	8.00
			Pinfish	<u>Lagodon rhomboides</u>								47.06	32.00
			Shark sp.										
			Bonnethead	<u>Sphyrna tiburo</u>				14.29					4.00
			Snapper sp.	Family Lutjanidae									
			Gray snapper	<u>Lutjanus griseus</u>								5.88	4.00

Table F.16. (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
			Southern kingfish	<u>Menticirrhus americanus</u>							17.65	12.00
	Weekday		Crevalle jack	Caranx hippos						100.00		7.41
			Gulf flounder	Paralichthys albigutta							16.67	3.70
			Gulf kingfish	<u>Menticirrhus littoralis</u>			11.76					7.41
			Pigfish	<u>Orthopristis chrysoptera</u>			5.88					3.70
			Shark sp.									
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>		50.00	22.53					18.52
			Blacktip shark	<u>Carcharhinus limbatus</u>							83.33	18.52
			Bonnethead	<u>Sphyrna tiburo</u>			5.88					3.70
			Southern kingfish	<u>Menticirrhus littoralis</u>		50.00	52.94					37.04
Low use												
	Weekend		Gulf kingfish	<u>Menticirrhus littoralis</u>			100.00					3.70
			Hardhead catfish	<u>Arius felis</u>					100.00			96.30
	Weekday		Gulf flounder	<u>Paralichthys albigutta</u>							100.00	100.00

Table F.17. Percent composition of the annual residential origin of party-boat fishermen-trips in Texas bays and passes by bay system (1983-87).

Bay system Year ^a	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
1986-87	100	0	0	0
Matagorda				
1983-84	31	48	21	0
1984-85	11	44	0	44
1985-86	63	11	26	0
1986-87	27	6	67	0
San Antonio				
1983-84	28	44	28	0
1984-85	0	70	30	0
1985-86	33	24	43	0
1986-87	27	20	53	0
Aransas				
1983-84	10	28	60	3
1984-85	19	19	53	9
1985-86	19	11	66	3
1986-87	14	19	64	3
Corpus Christi				
1983-84	14	9	77	0
1984-85	18	0	82	0
1985-86	31	22	47	0
1986-87	22	8	69	1
Upper Laguna Madre				
1983-84	33	0	67	0
1984-85	50	0	0	50
1985-86	41	8	46	4
1986-87	53	20	17	10
Lower Laguna Madre				
1983-84	22	22	46	10
1984-85	32	21	37	9
1985-86	31	24	40	6
1986-87	39	20	36	5
Coastwide				
1983-84	23	23	47	7
1984-85	32	19	40	9
1985-86	32	19	45	4
1986-87	34	18	44	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 (1983-1986). Blank = no fishermen interviewed.

Bay system Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal states/countries	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal states/countries	Other states/countries
Galveston								
1983	100	0	0	0	80	0	20	0
1984					100	0	0	0
1985	0	0	0	0	100	0	0	0
1986	100	0	0	0	100	0	0	0
Matagorda								
1983	21	64	14	0	50	14	36	0
1984	0	100	0	0	20	0	0	80
1985	0	0	0	0	83	0	17	0
1986	29	0	71	0	32	14	54	0
San Antonio								
1983	36	18	45	0	14	86	0	0
1984	0	0	100	0	0	100	0	0
1985	12	38	50	0	50	20	30	0
1986	23	54	23	0	28	10	62	0
Aransas								
1983	1	24	74	0	14	30	51	5
1984	23	0	77	0	0	60	10	30
1985	17	4	78	0	21	17	61	2
1986	10	18	72	0	14	21	60	5
Corpus Christi								
1983	0	20	80	0	10	5	85	0
1984	20	0	80	0	11	0	89	0
1985	18	45	36	0	23	17	60	0
1986	28	11	61	0	22	9	65	4

Table F.18. (Cont 'd.)

Bay system 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
Upper Laguna Madre								
1983	50	0	50	0				
1984					50	0	0	50
1985	55	9	36	0	100	0	0	0
1986	63	21	16	0	46	24	15	15
Lower Laguna Madre								
1983	18	33	47	2	24	21	47	9
1984	42	18	39	1	28	25	34	13
1985	27	24	45	4	36	27	32	4
1986	43	20	37	0	35	18	41	6
Coastwide								
1983	19	33	48	1	25	21	47	6
1984	33	14	53	1	33	25	30	13
1985	25	21	51	3	39	19	40	2
1986	38	19	43	0	32	18	44	6

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 (1983-1987). Blank = no fishermen interviewed.

Bay system 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								
1984-85								
1985-86	0	0	0	0	0	0	0	0
1986-87								
Matagorda								
1983-84								
1984-85								
1985-86	25	0	0	0	33	67	0	0
1986-87	21	0	0	0	17	0	83	0
San Antonio								
1983-84								
1984-85								
1985-86	0	0	0	0	33	0	67	0
1986-87	25	0	0	0				
Aransas								
1983-84								
1984-85	33	0	0	0	33	0	67	0
1985-86	14	7	0	0	25	12	25	38
1986-87	25	0	0	0	22	21	57	0
Corpus Christi								
1983-84					60	0	40	0
1984-85								
1985-86	0	0	0	0	64	21	14	0
1986-87	8	0	0	0				

Table F.19. (Cont'd.)

Bay system 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
Upper Laguna Madre								
1983-84					0	0	100	0
1984-85								
1985-86	0	0	0	0	11	11	70	8
1986-87	62	15	23	0	67	0	22	11
Lower Laguna Madre								
1983-84	41	12	47	0	14	0	35	51
1984-85	29	17	45	10	34	14	41	10
1985-86	42	0	58	0	28	16	24	32
1986-87	38	29	0	33	40	20	32	8
Coastwide								
1983-84	41	12	47	0	18	0	39	43
1984-85	29	16	47	9	34	11	46	9
1985-86	27	3	70	0	29	16	38	16
1986-87	32	12	46	10	37	15	43	5

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 (1983-1987). 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	Weekday	Weekend	Weekday	Weekend	Weekday	
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
1986-87	3.0	3.0			9.0	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	4.0	3.0		5.7	5.0	4.0	5.2
1986-87	3.5	3.7	4.8	6.0	7.5	5.3	5.0	8.0	5.9
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		9.5	5.9
1986-87	3.2	4.3	4.0		7.4	5.8	9.0		6.4
Aransas									
1983-84	3.5	4.2			5.0	4.9			4.9
1984-85	3.2	3.3	3.0	3.0	5.0	6.3	4.5	5.2	5.4
1985-86	3.3	3.1	2.3	1.6	6.2	6.3	8.3	7.2	6.7
1986-87	3.6	3.5	4.0	2.8	7.3	6.9	5.5	5.2	6.7
Corpus Christi									
1983-84	2.5	3.3		5.0	5.9	7.8		4.0	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		6.8	6.5
1986-87	4.0	3.8	4.3		7.1	6.3	7.2		6.8

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		
	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	
Upper Laguna Madre									
1983-84	4.0		2.0		2.0		2.0		2.0
1984-85		2.0				8.0			8.0
1985-86	2.8		5.9		7.0	8.9		12.0	9.4
1986-87	3.2		4.5	3.3	10.8	13.6	7.3	26.8	13.1
Lower Laguna Madre									
1983-84	3.4		2.8		7.4	6.2		4.0	6.2
1984-85	3.5	3.8	3.2	3.8	5.4	5.6	5.6	5.3	5.5
1985-86	3.8	3.6	2.1	4.0	5.5	5.5	7.3	6.0	5.6
1986-87	3.2	3.3	3.6	3.5	6.0	5.6	5.8	5.1	5.8
Coastwide									
1983-84	3.5	3.4	2.9	3.4	6.7	6.1	5.6	3.8	6.1
1984-85	3.5	3.6	3.2	3.8	5.5	5.9	5.0	5.3	5.7
1985-86	3.6	3.4	2.7	3.0	5.8	6.2	7.7	7.3	6.3
1986-87	3.4	3.5	3.6	3.8	6.8	7.5	6.3	8.2	7.2

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 (1983-1987). WE = weekdays. WD = weekend days.

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.1. (Cont'd.)

Year	Season	Day type	Area				Coastwide
			Galveston	Corpus Christi	Lower Laguna Madre		
1986-87							
	High use						
	WE		7 (378)	7 (84)	7 (160)	21 (622)	
	WD		14 (463)	14 (209)	14 (276)	42 (948)	
	Low use						
	WE		7 (210)	7 (119)	7 (111)	21 (440)	
	WD		14 (275)	14 (101)	14 (180)	42 (556)	
	Annual		42 (1326)	42 (513)	42 (727)	126 (2566)	

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 (1983-1987).

Area Year	High-use season		Low-use season		Annual ^a
	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
1986-87	25.0 \pm 5.5	19.4 \pm 4.6	3.3 \pm 1.4	3.5 \pm 1.7	51.2 \pm 7.6
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
1986-87	9.9 \pm 2.4	16.7 \pm 5.4	5.0 \pm 0.6	2.1 \pm 0.5	33.7 \pm 6.0
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
1986-87	3.1 \pm 1.2	16.6 \pm 4.5	0.8 \pm 0.3	3.6 \pm 1.6	24.1 \pm 4.9
Coastwide^a					
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
1986-87	38.0 \pm 6.1	52.7 \pm 8.4	9.0 \pm 1.6	9.2 \pm 2.4	108.9 \pm 10.8

^a 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 (1983-1987).

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87	31.9 \pm 8.6	0.1 \pm <.1	0.2 \pm 0.1	32.2 \pm 8.6
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
1986-87	0.9 \pm 0.3	0.0	<.1 \pm <.1	0.9 \pm 0.3
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
1986-87	0.4 \pm 0.2	0.7 \pm 0.3	0.0	1.1 \pm 0.3
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
1986-87	<.1 \pm <.1	0.0	0.0	<.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
1986-87	25.8 \pm 8.5	7.7 \pm 2.5	12.3 \pm 4.4	45.8 \pm 9.9
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
1986-87	0.0	0.0	<.1 \pm <.1	<.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
1986-87	0.2 \pm 0.1	0.4 \pm 0.3	.1 \pm <.1	0.7 \pm 0.3
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
1986-87	<.1 \pm <.1	1.0 \pm 0.6	<.1 \pm <.1	1.1 \pm 0.6
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
1986-87	4.1	2.5	7.6	14.6

Table G.3. (Cont'd.)

Species Year	Area			Coastwide ^a
	Galveston	Corpus Christi	Lower Laguna Madre	
All species combined ^a				
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
1986-87	63.7 ± 11.7	12.5 ± 2.3	20.3 ± 6.9	96.5 ± 13.9

^a 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 (1983-1986).

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986						
	Weekend		20.5 \pm 7.4	0.0	<.1 \pm <.1	20.5 \pm 7.4
	Weekday		11.4 \pm 4.4	0.1 \pm 0.1	0.2 \pm 0.1	11.7 \pm 4.4
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
1986						
	Weekend		0.4 \pm 0.1	0.0	0.0	0.4 \pm 0.1
	Weekday		0.3 \pm 0.2	0.0	0.0	0.3 \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
1986						
	Weekend		0.1 \pm 0.1	0.3 \pm 0.2	0.0	0.4 \pm 0.2
	Weekday		0.2 \pm 0.2	0.4 \pm 0.2	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
1986						
	Weekend		<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
	Weekday		0.0	0.0	0.0	0.0

Table G.4. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986					
	Weekend	3.7 ± 2.2	2.0 ± 1.3	1.8 ± 0.7	7.6 ± 2.7
	Weekday	21.7 ± 8.2	4.1 ± 1.8	10.0 ± 4.3	35.8 ± 9.4
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
1986					
	Weekend	0.0	0.0	0.0	0.0
	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
1986					
	Weekend	0.1 ± 0.1	<.1 ± <.1	<.1 ± <.1	0.2 ± 0.1
	Weekday	0.1 ± 0.1	0.3 ± 0.3	0.1 ± 0.1	0.6 ± 0.3
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
1986					
	Weekend	<.1 ± <.1	0.5 ± 0.3	<.1 ± <.1	0.5 ± 0.3
	Weekday	0.0	0.5 ± 0.5	0.0	0.5 ± 0.5

Table G.4. (Cont'd.)

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986				
Weekend	1.6	0.4	0.5	2.6
Weekday	1.4	1.4	6.2	9.0
All species combined ^a				
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
1986				
Weekend	26.6 ± 7.3	3.1 ± 1.3	2.4 ± 0.9	32.2 ± 7.5
Weekday	35.1 ± 9.1	6.9 ± 2.0	16.5 ± 6.9	58.5 ± 11.6

^a 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 (1983-1987).

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87					
	Weekend	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1
	Weekday	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
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
1986-87					
	Weekend	0.1 \pm 0.1	0.0	0.0	0.1 \pm 0.1
	Weekday	0.1 \pm 0.1	0.0	<.1 \pm <.1	0.1 \pm 0.1
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
1986-87					
	Weekend	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
	Weekday	<.1 \pm <.1	0.0	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
1986-87					
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0

Table G.5. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year				
Day type				
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
1986-87				
Weekend	0.1 ± 0.1	1.3 ± 1.1	0.1 ± <.1	1.4 ± 1.1
Weekday	3.2 ± 2.0	0.3 ± 0.2	0.4 ± 0.2	1.0 ± 0.4
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
1986-87				
Weekend	0.0	0.0	<.1 ± <.1	<.1 ± <.1
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
1986-87				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	<.1 ± <.1	0.0	<.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
1986-87				
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 ^a
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
1986-87				
Weekend	0.6	0.6	0.1	1.4
Weekday	1.3	0.1	0.8	1.6
All species combined^a				
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
1986-87				
Weekend	0.8 ± 0.6	1.9 ± 1.4	0.2 ± 0.1	2.9 ± 1.5
Weekday	1.2 ± 0.5	6.4 ± 0.2	1.2 ± 0.5	2.8 ± 0.7

^a 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 (1983-1987).

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
1986-87	0.62 \pm 0.19	<.01 \pm <.01	0.01 \pm <.01	0.30 \pm 0.01
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
1986-87	0.02 \pm 0.01	0.0	<0.01 \pm <0.01	0.01 \pm <0.1
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
1986-87	0.01 \pm <.01	0.02 \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
1986-87	<.01 \pm <.01	0.00	0.00	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
1986-87	0.50 \pm 0.18	0.23 \pm 0.08	0.51 \pm 0.21	0.42 \pm 0.10
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
1986-87	0.00	0.00	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
1986-87		0.01 \pm 0.01	<.01 \pm <.01	0.01 \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
1986-87	<.01 \pm <.01	0.03 \pm 0.02	0.00	0.01 \pm 0.01
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
1986-87	0.09	0.08	0.32	0.13

Table G.6. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a				
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
1986-87	1.24 ± 0.29	0.37 ± 0.10	0.84 ± 0.33	0.89 ± 0.15

^a 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 (1983-1986).

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
	1986				
	Weekend	0.82 \pm 0.34	0.00	0.01 \pm <.01	0.54 \pm 0.21
	Weekday	0.59 \pm 0.26	0.01 \pm <.01	0.01 \pm 0.01	0.22 \pm 0.09
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
	1986				
	Weekend	0.01 \pm 0.01	0.00	0.00	0.01 \pm <.01
	Weekday	0.02 \pm 0.01	0.00	0.00	0.01 \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
	1986				
	Weekend	<.01 \pm <.01	0.03 \pm 0.02	0.00	0.01 \pm 0.01
	Weekday	0.01 \pm 0.01	0.02 \pm 0.01	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
	1986				
	Weekend	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
	Weekday	0.00	0.00	0.00	0.00

Table G.7. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
	1986				
	Weekend	0.15 ± 0.09	0.20 ± 0.14	0.59 ± 0.31	0.20 ± 0.08
	Weekday	1.12 ± 0.49	0.24 ± 0.13	0.60 ± 0.30	0.68 ± 0.21
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
	1986				
	Weekend	0.00	0.00	0.00	0.00
	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
	1986				
	Weekend	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
	Weekday	0.01 ± <.01	0.02 ± 0.02	0.01 ± <.01	0.01 ± 0.01
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
	1986				
	Weekend	<.01 ± <.01	0.05 ± 0.03	<.01 ± <.01	0.01 ± 0.01
	Weekday	0.00	0.03 ± 0.03	0.00	0.01 ± 0.01

Table G.7. (Cont'd.)

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
1986				
Weekend	0.07	0.04	0.17	0.07
Weekday	0.07	0.09	0.38	0.17
All species combined ^a				
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
1986				
Weekend	1.07 ± 0.37	0.32 ± 0.14	0.78 ± 0.40	0.85 ± 0.24
Weekday	1.81 ± 0.63	0.41 ± 0.18	1.00 ± 0.48	1.11 ± 0.28

^a 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 (1983-1987).

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
	1986-87				
	Weekend	0.00	<.01 \pm <.01	0.00	<.01 \pm <.01
	Weekday	0.01 \pm 0.01	0.00	0.00	<.01 \pm <.01
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
	1986-87				
	Weekend	0.03 \pm 0.03	0.00	0.00	0.01 \pm 0.01
	Weekday	0.04 \pm 0.03	0.00	<.01 \pm <.01	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
	1986-87				
	Weekend	0.01 \pm 0.01	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
	1986-87				
	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	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
	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
	1986-87				
	Weekend	0.02 ± 0.02	0.26 ± 0.22	0.09 ± 0.06	0.16 ± 0.12
	Weekday	0.09 ± 0.07	0.13 ± 0.11	0.11 ± 0.01	0.11 ± 0.05
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
	1986-87				
	Weekend	0.00	0.00	<.01 ± <.01	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
	1986-87				
	Weekend	0.00	0.00	0.00	0.00
	Weekday	0.00	<.01 ± <.01	0.00	<.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
	1986-87				
	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 Year Day type	Area			Coastwide
	Galveston	Corpus Christi	Lower Laguna Madre	
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
1986-87				
Weekend	0.20	0.13	0.13	0.15
Weekday	0.18	0.06	0.22	0.17
All species combined ^a				
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
1986-87				
Weekend	0.25 ± 0.20	0.39 ± 0.28	0.23 ± 0.15	0.33 ± 0.17
Weekday	0.33 ± 0.21	0.21 ± 0.13	0.33 ± 0.18	0.30 ± 0.11

^a 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 (1978-1987)^a. Number in parenthesis indicates number of surveys.

Area	Year Season	Sand seatrout	Atlantic croaker	Other	All species combined
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
1986-87					
	High use (21)	0.57 \pm 0.21	0.72 \pm 0.22	0.10	1.40 \pm 0.34
	Low use (21)	0.06 \pm 0.04	<.01 \pm <.01	0.20	0.29 \pm 0.15
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
1986-87					
	High use (21)	0.23 \pm 0.10	<.01 \pm <.01	0.14	0.38 \pm 0.12
	Low use (21)	0.22 \pm 0.16	<.01 \pm <.01	0.11	0.34 \pm 0.20
Lower Laguna Madre					
1978-79					
	High use (14)	0.52 \pm 0.19	0.01 \pm 0.01	0.19	0.71 \pm 0.20
	Low use (5)	0.08 \pm 0.08	<.01	0.08	0.16 \pm 0.07

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

Area Year Season	Sand seatrout	Atlantic croaker	Other	All species combined
Lower Laguna Madre (Cont'd.)				
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
1986-87				
High use (21)	0.60 ± 0.26	0.01 ± <.01	0.35	0.96 ± 0.41
Low use (21)	0.11 ± 0.06	0.00	0.20	0.31 ± 0.15
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
1986-87				
High use (63)	0.48 ± 0.12	0.36 ± 0.10	0.17	1.00 ± 0.19
Low use (63)	0.13 ± 0.07	<.01 ± <.01	0.18	0.32 ± 0.10

^a1978-1982 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 (1983-1987). 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
1986-87	0.14 \pm 0.02	0.14 \pm 0.02	0.16 \pm 0.06	0.14 \pm 0.02
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
1986-87	5.08 \pm 0.89		10.03 \pm 0.25	5.15 \pm 0.88
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
1986-87	0.75 \pm 0.22	0.55 \pm 0.10		0.62 \pm 0.14
Red drum				
1983-84	0.71			0.71
1984-85	3.83			3.83
1985-86	0.81		1.12	0.92
1986-87	0.32			0.32
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
1986-87	0.24 \pm 0.01	0.20 \pm 0.02	0.26 \pm 0.01	0.24 \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
1986-87			0.77	0.77
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
1986-87	0.60 \pm 0.02	0.53 \pm 0.13	0.49 \pm 0.08	0.54 \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
1986-87	0.38	0.60 \pm 0.04	0.38	0.59 \pm 0.06

Table G.10. (Cont'd.).

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a				
1983-84	0.55 ± 0.14	0.36 ± 0.04	0.32 ± 0.02	0.45 ± 0.09
1984-85	0.40 ± 0.10	0.51 ± 0.18	0.21 ± 0.01	0.35 ± 0.08
1985-86	0.34 ± 0.12	0.27 ± 0.08	0.18 ± 0.01	0.30 ± 0.10
1986-87	0.34 ± 0.10	0.19 ± 0.03	0.25 ± 0.03	0.30 ± 0.07

^aIncludes "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 (1983-1986). 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				
	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
	1986				
	Weekend	0.16 \pm 0.03		0.32 \pm 0.18	0.16 \pm 0.03
	Weekday	0.12 \pm 0.01	0.15 \pm 0.03	0.11 \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
	1986				
	Weekend	0.72 \pm 0.09			0.72 \pm 0.09
	Weekday	1.27 \pm 0.73			1.27 \pm 0.73
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
	1986				
	Weekend	0.15 \pm 0.15	0.55 \pm 0.02		0.44 \pm 0.06
	Weekday	0.28 \pm 0.02	0.54 \pm 0.15		0.45 \pm 0.10
Red drum					
	1983				
	Weekend	0.71			0.71
	Weekday				
	1984				
	Weekend				
	Weekday				
	1985				
	Weekend	0.81			0.81
	Weekday			1.12	1.12
	1986				
	Weekend	0.32 \pm 0.32			0.32
	Weekday				

Table G.11. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
1986				
Weekend	0.21 ± 0.01	0.23 ± 0.01	0.25 ± 0.01	0.22 ± 0.01
Weekday	0.24 ± 0.01	0.17 ± 0.02	0.25 ± 0.01	0.24 ± 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				
1986				
Weekend				
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
1986				
Weekend	0.57 ± 0.03	0.23	0.65	0.52 ± 0.09
Weekday	0.63 ± 0.03	0.53 ± 0.16	0.45 ± 0.08	0.53 ± 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
1986				
Weekend	0.38 ± 0.38	0.62 ± 0.05	0.38	0.60 ± 0.08
Weekday		0.50		0.50

Table G.11. (Cont'd.)

Species Year Day type	Area			Coastwide
	Galveston	Corpus Christi	Lower Laguna Madre	
All species combined ^a				
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
1986				
Weekend	0.14 ± 0.03	0.26 ± 0.05	0.20 ± <.01	0.16 ± 0.03
Weekday	0.16 ± 0.02	0.16 ± 0.03	0.20 ± <.01	0.17 ± 0.02

^aIncludes "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 (1983-1987). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Day type	Area			Coastwide
		Galveston	Corpus Christi	Lower Laguna Madre	
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
1986-87					
	Weekend		0.90		0.90
	Weekday	0.10			0.10
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
1986-87					
	Weekend	7.66 \pm 0.59			7.66 \pm 0.59
	Weekday	6.52 \pm 0.28		10.03 \pm 0.25	6.85 \pm 0.27
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
1986-87					
	Weekend	1.52			1.52
	Weekday	1.04 \pm 0.36	0.61		0.95 \pm 0.41
Red drum					
1983-84					
	Weekend				
	Weekday				
1984-85					
	Weekend				
	Weekday	3.83			3.83
1985-86					
	Weekend				
	Weekday				
1986-87					
	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
1986-87				
Weekend	0.26 ± 0.04	0.25 ± 0.01	0.36 ± 0.02	0.25 ± 0.01
Weekday	0.24 ± 0.02	0.25 ± 0.01	0.32 ± 0.03	0.28 ± 0.02
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				
1986-87				
Weekend			0.77	0.77
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
1986-87				
Weekend				
Weekday		0.83		
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
1986-87				
Weekend				
Weekday				

Table G.12. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a				
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
1986-87				
Weekend	1.78 ± 1.79	0.21 ± 0.02	0.32 ± 0.02	0.76 ± 0.37
Weekday	1.30 ± 0.75	0.23 ± 0.04	0.43 ± 0.12	0.68 ± 0.26

^aIncludes "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 (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker				
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
1986-87	219 \pm 8	222 \pm 10	224 \pm 21	219 \pm 8
Black drum				
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
1986-87	664 \pm 62		894 \pm 7	668 \pm 62
Gafftopsail catfish				
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
1986-87	391 \pm 39	374 \pm 24		381 \pm 29
Red drum				
1983-84	408			408
1984-85	704			704
1985-86	425		473	442
1986-87	315			315
Sand seatrout				
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
1986-87	280 \pm 4	265 \pm 10	290 \pm 2	280 \pm 5
Sheepshead				
1983-84	405 \pm 17		312 \pm 6	335 \pm 5
1984-85	366		328 \pm 2	330 \pm 4
1985-86		345		345
1986-87			354	354
Southern flounder				
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
1986-87	367 \pm 9	348 \pm 26	348 \pm 19	354 \pm 19
Spotted seatrout				
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
1986-87	345	398 \pm 9	345	395 \pm 23

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

Species Year	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a				
1983-84	278 ± 12	288 ± 5	289 ± 4	283 ± 8
1984-85	288 ± 13	304 ± 13	283 ± 3	288 ± 7
1985-86	265 ± 10	276 ± 6	280 ± 3	269 ± 8
1986-87	268 ± 10	276 ± 9	290 ± 3	274 ± 8

^aIncludes "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 (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
1986						
	Weekend		227 \pm 14		278 \pm 58	227 \pm 14
	Weekday		212 \pm 4	227 \pm 11	207 \pm 9	212 \pm 5
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
1986						
	Weekend		366 \pm 16			366 \pm 16
	Weekday		412 \pm 80			412 \pm 80
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
1986						
	Weekend		265	379 \pm 2		347 \pm 75
	Weekday		313 \pm 6	371 \pm 35		349 \pm 24
Red drum						
1983						
	Weekend		408			408
	Weekday					
1984						
	Weekend					
	Weekday					
1985						
	Weekend		425			425
	Weekday				473	473
1986						
	Weekend		315			315
	Weekday					

Table G.14. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
1986				
Weekend	268 ± 4	275 ± 2	286 ± 4	274 ± 3
Weekday	281 ± 5	251 ± 10	287 ± 2	279 ± 5
Sheepshead				
1983				
Weekend	404		313 ± 131	343 ± 194
Weekday	376		349 ± 12	358 ± 50
1984				
Weekend				
Weekday				
1985				
Weekend		345		345
Weekday				
1986				
Weekend				
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
1986				
Weekend	360 ± 14	274	384	347 ± 72
Weekday	378 ± 4	349 ± 32	339 ± 19	352 ± 24
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
1986				
Weekend	345	401 ± 10	345	397 ± 39
Weekday		377		376

Table G.14. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a				
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
1986				
Weekend	238 ± 8	312 ± 27	287 ± 5	249 ± 9
Weekday	259 ± 9	264 ± 11	285 ± 2	267 ± 7

^aIncludes "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 (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
	1986-87					
	Weekend			198		198
	Weekday		204			204
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
	1986-87					
	Weekend		813 \pm 19			813 \pm 19
	Weekday		770 \pm 12		894 \pm 7	782 \pm 12
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
	1986-87					
	Weekend		533			533
	Weekday		444 \pm 61	408		436 \pm 135
Red drum						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday		704			704
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend					
	Weekday					

Table G.15. (Cont'd.)

Species Year Day type	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
1986-87				
Weekend	287 ± 17	284 ± 4	321 ± 6	286 ± 4
Weekday	282 ± 6	285 ± 5	307 ± 9	293 ± 7
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				
1986-87				
Weekend			354	354
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
1986-87				
Weekend				
Weekday		415		415
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday			298 ± 298	298
1985-86				
Weekend				
Weekday		397 ± 2	356	395 ± 16
1986-87				
Weekend				
Weekday				

Table G.15. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a				
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
1986-87				
Weekend	320 ± 105	275 ± 13	323 ± 6	290 ± 38
Weekday	382 ± 54	284 ± 7	305 ± 9	334 ± 27

^aIncludes "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 (1983-1987).

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		5.17	0.62
	Pigfish	<u>Orthopristis chrysoptera</u>	5.56			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
Weekday						
	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

Table G.16. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Corpus Christi	Lower Laguna Madre	Coastwide	
			Sharks sp.						
			Atlantic sharpnose shark	<u>Rhizoprionodon terranovae</u>	5.47				2.09
			Blacktip shark	<u>Carcharhinus limbatus</u>	0.32	1.59	0.45		0.37
			Bonnethead	<u>Sphyrna tiburo</u>					0.12
			Hammerhead sp.	Family Sphyrnidae	0.32				0.12
			Silver perch	<u>Bairdiella chrysoura</u>	3.54				1.35
			Silver seatrout	<u>Cynoscion nothus</u>	0.64				0.25
			Snappers sp.	Family Lutjanidae					
			Red snapper	<u>Lutjanus campechanus</u>		79.37	77.27		41.77
			Southern kingfish	<u>Menticirrhus americanus</u>	82.64		20.23		48.65
	Low use								
	Weekend		Florida pompano	<u>Trachinotus carolinus</u>		33.33	3.23		2.50
			Gulf kingfish	<u>Menticirrhus littoralis</u>					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

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				Coastwide
			Galveston	Christi	Lower Laguna Madre		
1984-85							
High use	Atlantic cutlassfish	<u>Trichiurus lepturus</u>	1.05			0.63	
Weekend	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		87.04	50.63	
	Spot	<u>Leiostomus xanthurus</u>	1.05			0.63	
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	

Table G.16. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				Coastwide	
					Galveston	Corpus Christi	Lower Laguna Madre			
1985-86	High 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	
			Crevalle jack	<u>Caranx hippos</u>	6.67				0.68	
			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				0.68	
			Pigfish	<u>Orthopristis chrysoptera</u>			0.85		0.68	
			Sharks sp.							
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</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				
1985-86	High use	Weekend	Atlantic cutlassfish	<u>Trichiurus lepturus</u>			1.30	0.59		
			Bluefish	<u>Pomatomus saltatrix</u>		4.35		1.18		
			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		

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
	Sharks sp.					
	Atlantic sharpnose shark	<u>Rhizoprionodon terranova</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>			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		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	Family Sphyrnidae	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		
1986-87	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	
1986-87	High use Weekend		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	0.80		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 terranovae</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			
	Atlantic stingray	<u>Dasyatis sabina</u>				1.52	0.83			
	Hardhead catfish	<u>Arius felis</u>	2.13			37.50	0.83			
	Ladyfish	<u>Elops saurus</u>					2.48			
	Pigfish	<u>Orthopristis chrysoptera</u>	4.26		6.06		4.96			
	Pinfish	<u>Lagodon rhomboides</u>	4.26				1.65			

Table G.16. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Christi	Lower Laguna Madre	Coastwide		
	Low use									
	Weekend		Pigfish	<u>Orthopristis chrysoptera</u>	3.20		3.00	42.40		
			Pinfish	<u>Lagodon rhomboides</u>	76.60	24.40		8.10		
			Sharks sp.							
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	1.10			0.60		
			Bonnethead	<u>Sphyrna tiburo</u>	1.10			0.60		
			Scalloped hammerhead	<u>Sphyrna lewini</u>		2.20		0.60		
			Smooth dogfish	<u>Mustelus canis</u>	2.10			1.20		
			Southern kingfish	<u>Menticirrhus americanus</u>	16.00	73.30	97.00	46.50		
	Weekday									
			Crevalle Jack	<u>Caranx hippos</u>	0.60			0.30		
			Gulf flounder	<u>Paralichthys albigutta</u>			3.80	1.60		
			Hardhead catfish	<u>Arius felis</u>			0.80	0.30		
			Pigfish	<u>Orthopristis chrysoptera</u>	1.20	6.70	12.80	6.20		
			Pinfish	<u>Lagodon rhomboides</u>	0.60	6.70		0.60		
			Sharks sp.							
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>				4.70		
			Bonnethead	<u>Sphyrna tiburo</u>	8.70			1.60		
			Silver perch	<u>Bairdiella chrysoura</u>	2.90			0.30		
			Southern kingfish	<u>Menticirrhus americanus</u>	85.50	80.00	82.70	84.10		
			Stingrays sp.	Family <u>Dasyatidae</u>						
			Atlantic stingray	<u>Dasyatis sabina</u>		6.70		0.30		

Table G.17. Percent composition of the annual residential origin of headboat fishermen-trips in Texas bays and passes by area (1983-1987).

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
1986-87	68	0	19	14
Corpus Christi				
1983-84	20	6	58	15
1984-85	19	9	57	15
1985-86	17	12	55	17
1986-87	17	8	60	15
Lower Laguna Madre				
1983-84	10	10	48	33
1984-85	18	8	40	34
1985-86	17	12	41	31
1986-87	21	10	34	35
Coastwide				
1983-84	34	4	42	20
1984-85	42	5	33	20
1985-86	43	6	33	18
1986-87	44	4	31	20

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 (1983-1986).

Area 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
Galveston								
1983	68	0	25	7	42	0	35	23
1984	72	0	15	13	61	1	18	20
1985	67	1	27	5	78	1	13	7
1986	83	1	10	6	58	0	26	16
Corpus Christi								
1983	19	12	64	5	20	3	59	18
1984	17	8	68	6	13	11	58	18
1985	15	9	67	9	9	14	59	18
1986	20	10	67	4	13	10	67	11
Lower Laguna Madre								
1983	12	20	45	23	5	9	53	34
1984	39	9	40	12	10	10	55	25
1985	45	10	29	16	7	14	58	21
1986	33	13	28	26	14	14	49	22
Coastwide								
1983	37	8	45	9	27	3	46	24
1984	49	4	36	11	37	5	37	21
1985	51	5	35	9	39	8	38	14
1986	62	5	22	11	35	6	42	16

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 (1983-1987).

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
1986-87	68	0	23	9	61	1	15	23
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
1986-87	18	7	65	10	23	4	36	38
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
1986-87	45	6	17	32	8	1	28	63
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
1986-87	49	3	33	15	37	1	23	39

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 (1983-1987).

Area Year	Mean fishing-party size				Mean fishing time				
	High-use season		Low-use season		High-use season		Low-use season		
	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
1984-85	55.3	37.8	47.0	32.2	41.5	2.5	2.4	2.3	2.2
1985-86	50.6	42.3	37.8	42.1	43.1	2.6	2.4	2.4	2.5
1986-87	54.0	33.1	30.0	19.6	31.6	1.9	2.2	2.2	2.2
Corpus Christi									
1983-84	45.9	18.1	24.9	17.0	25.0	2.5	2.7	2.6	2.6
1984-85	29.4	17.6	34.4	20.1	23.4	2.6	2.8	2.6	2.7
1985-86	17.6	22.8	17.2	17.0	19.3	2.9	2.7	2.3	2.5
1986-87	12.0	14.9	17.0	7.2	12.2	2.8	2.5	2.6	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
1984-85	19.3	17.9	11.2	16.6	16.6	2.4	2.4	2.2	2.2
1985-86	30.0	31.0	16.8	14.5	23.2	2.3	2.4	2.6	2.5
1986-87	22.9	19.7	15.9	12.9	17.3	2.4	2.4	2.3	2.5
Coastwide									
1983-84	41.5	24.0	24.1	20.6	26.7	2.7	3.0	2.6	3.4
1984-85	34.4	24.4	31.6	22.5	27.1	2.5	2.5	2.4	2.4
1985-86	32.9	31.8	24.8	24.1	28.6	2.6	2.5	2.4	2.5
1986-87	29.6	22.6	21.0	13.2	20.4	2.4	2.4	2.5	2.4

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 (1982-1987). WE = weekend days. WD = weekdays.

Year	Season	Day type	Area				Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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.1. (Cont'd.)

Year	Season	Day type	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1986-87								
	High use							
	WE		31 (112)	41 (185)	49 (264)	31 (24)	152 (585)	
	WD		66 (17)	88 (122)	102 (244)	66 (4)	322 (387)	
	Low use							
	WE		12 (9)	21 (27)	22 (10)	12 (0)	67 (46)	
	WD		24 (0)	42 (32)	40 (6)	24 (0)	130 (38)	
	Annual		133 (138)	192 (366)	213 (524)	133 (28)	671 (1056)	

Table H.2. Pressure estimates (man-h x 1000) \pm 1 SE for private-boat fishermen in the TTS by season and day type (1982-1987).

Area Year	High-use season		Low-use season		Annual ^a
	Weekend	Weekday	Weekend	Weekday	
Galveston					
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
1986-87	28.4 \pm 17.7	1.3 \pm 0.9	2.0 \pm 2.0	0.0	31.6 \pm 17.9
Matagorda					
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
1986-87	47.1 \pm 29.6	64.8 \pm 53.7	1.8 \pm 0.7	5.1 \pm 2.5	118.9 \pm 61.4
Corpus Christi					
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
1986-87	67.7 \pm 45.3	44.3 \pm 24.6	5.2 \pm 4.6	7.8 \pm 7.5	125.0 \pm 52.3
Lower Laguna Madre					
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
1986-87	4.3 \pm 2.3	0.8 \pm 0.7	0.0	0.0	5.0 \pm 2.4
Coastwide ^a					
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
1986-87	147.9 \pm 57.0	111.2 \pm 59.1	9.0 \pm 5.1	12.9 \pm 7.9	281.1 \pm 82.7

^aDue 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 (1982-1987).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
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
1986-87	0.3 \pm 0.3	0.3 \pm 0.3	0.0	0.0	0.6 \pm 0.4
Atlantic sharpnose shark					
1982-83 ^b					
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
1986-87	0.1 \pm 0.1	1.1 \pm 0.8	0.8 \pm 0.4	0.0	2.0 \pm 0.9
Cobia					
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
1986-87	0.0	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1	0.1 \pm <.1
King mackerel					
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
1986-87	0.4 \pm 0.2	0.3 \pm 0.1	2.3 \pm 0.8	0.1 \pm 0.1	3.1 \pm 0.8
Red drum					
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
1986-87	0.0	0.6 \pm 0.3	<.1 \pm <.1	0.0	0.6 \pm 0.3

Table H.3. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type					
Red snapper					
1982-83	0.7 ± 0.7	15.8 ± 7.0	1.2 ± 0.5	2.4 ± 1.1	20.1 ± 13.5
1983-84	<.1 ± <.1	1.1 ± 0.6	0.8 ± 0.5	1.6 ± 0.7	3.5 ± 1.1
1984-85	0.0	3.1 ± 2.6	0.1 ± <.1	0.1 ± 0.1	3.3 ± 2.6
1985-86	0.0	0.8 ± 0.3	0.6 ± 0.4	4.6 ± 4.1	6.0 ± 4.1
1986-87	3.5 ± 3.5	0.4 ± 0.2	0.1 ± 0.1	0.3 ± 0.3	4.4 ± 3.5
Sand seatrout					
1982-83	0.2 ± 0.2	47.7 ± 18.5	5.7 ± 1.6	0.7 ± 0.4	54.3 ± 35.6
1983-84	0.2 ± 0.2	7.4 ± 4.2	<.1 ± <.1	0.0	7.7 ± 4.2
1984-85	1.6 ± 1.6	19.3 ± 16.6	0.6 ± 0.4	0.0	21.5 ± 16.7
1985-86	0.2 ± 0.1	7.7 ± 3.5	0.4 ± 0.2	0.0	8.2 ± 3.5
1986-87	40.6 ± 35.1	17.4 ± 11.7	0.0	0.0	58.0 ± 37.0
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
1986-87	1.1 ± 1.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	1.1 ± 1.0
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 ± 1.8	<.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
1986-87	0.9 ± 0.8	2.3 ± 1.4	0.1 ± 0.1	0.0	3.4 ± 1.7
Vermilion snapper					
1982-83 ^b					0.0
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
1986-87	0.0	0.0	0.0	0.0	0.0

Table H.3. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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
1986-87	0.4 ± 0.3	2.3	3.9 ± 3.2	0.1 ± 0.1		8.6
All species combined ^a						
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
1986-87	47.7 ± 35.3	29.4 ± 17.0	4.2 ± 1.1	0.5 ± 0.4		81.9 ± 39.2

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 (1982-1986).

Species Year	Day type	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986	Weekend	0.3 \pm 0.3	0.0	0.0	0.0	0.3 \pm 0.3
	Weekday	0.0	0.3 \pm 0.3	0.0	0.0	0.3 \pm 0.3
Atlantic sharpnose shark						
1982	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
1983	Weekend	0.0	0.0	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
1984	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
1985	Weekend	0.1 \pm 0.1	0.5 \pm 0.5	0.2 \pm 0.1	0.0	0.8 \pm 0.5
	Weekday	<.1 \pm <.1	0.7 \pm 0.6	0.6 \pm 0.4	0.0	1.2 \pm 0.7

Table H.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Calveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Cobia							
1982	Weekend	0.0	0.1 ± <.1	<.1 ± <.1	<.1 ± <.1	0.2 ± 0.1	0.2 ± 0.1
	Weekday	0.6 ± 0.6	0.1 ± <.1	<.1 ± <.1	0.0	0.7 ± 0.6	0.7 ± 0.6
1983	Weekend	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	<.1 ± <.1	<.1 ± <.1	0.0	<.1 ± <.1	<.1 ± <.1
1984	Weekend	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	0.0	0.1 ± 0.1	0.0	0.1 ± 0.1	0.1 ± 0.1
1985	Weekend	<.1 ± <.1	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	<.1 ± <.1
1986	Weekend	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	<.1 ± <.1	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
King mackerel							
1982	Weekend	1.0 ± 1.0	2.0 ± 0.4	1.5 ± 0.3	0.3 ± 0.2	4.9 ± 1.4	4.9 ± 1.4
	Weekday	7.2 ± 7.2	0.5 ± 0.1	3.7 ± 0.7	<.1 ± <.1	11.5 ± 7.4	11.5 ± 7.4
1983	Weekend	0.0	0.7 ± 0.5	2.5 ± 1.5	0.1 ± 0.1	3.4 ± 1.6	3.4 ± 1.6
	Weekday	0.0	0.4 ± 0.2	6.9 ± 3.2	0.4 ± 0.3	7.7 ± 3.2	7.7 ± 3.2
1984	Weekend	0.0	0.5 ± 0.2	2.7 ± 1.1	0.5 ± 0.3	3.6 ± 1.1	3.6 ± 1.1
	Weekday	0.0	0.2 ± 0.1	3.6 ± 1.5	0.2 ± 0.2	4.0 ± 1.5	4.0 ± 1.5
1985	Weekend	0.3 ± 0.3	0.9 ± 0.3	1.9 ± 0.9	<.1 ± <.1	3.2 ± 1.0	3.2 ± 1.0
	Weekday	0.1 ± 0.1	0.7 ± 0.4	2.7 ± 1.2	<.1 ± <.1	3.4 ± 1.3	3.4 ± 1.3
1986	Weekend	0.3 ± 0.2	0.1 ± 0.1	0.8 ± 0.4	<.1 ± <.1	1.3 ± 0.4	1.3 ± 0.4
	Weekday	0.1 ± 0.1	0.2 ± 0.1	1.5 ± 0.7	0.0	1.8 ± 0.7	1.8 ± 0.7

Table H.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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	
1986	Weekend	0.0	<.1 ± <.1	<.1 ± <.1	0.0	0.1 ± <.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	
1986	Weekend	3.5 ± 3.5	<.1 ± <.1	<.1 ± <.1	0.3 ± 0.3	3.8 ± 3.5	
	Weekday	0.0	0.1 ± 0.1	0.1 ± 0.1	0.0	0.2 ± 0.1	

Table H.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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	
1986	Weekend	40.3 ± 35.1	11.1 ± 11.1	0.0	0.0	51.4 ± 36.8	
	Weekday	0.3 ± 0.3	<.1 ± <.1	0.0	0.0	0.3 ± 0.3	
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	
1986	Weekend						
	Weekday						
1986	Weekend	1.1 ± 1.0	0.0	<.1 ± <.1	<.1 ± <.1	1.1 ± 1.0	
	Weekday	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1	0.0	<.1 ± <.1	

Table H.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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	
1986	Weekend	0.8 ± 0.8	1.6 ± 1.4	0.1 ± 0.1	0.0	2.6 ± 1.6	
	Weekday	0.1 ± 0.1	0.5 ± 0.3	0.0	0.0	0.6 ± 0.3	
Vermilion snapper							
1982	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	
1986	Weekend	0.0	0.0	0.0	0.0	0.0	
	Weekday	0.0	0.0	0.0	0.0	0.0	

Table H.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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	
1986	Weekend	0.5	3.5	0.4	0.1 ± 0.1	4.4	
	Weekday	0.3 ± 0.3	1.6	0.4	0.0	2.3	
All species combined ^a							
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	
1986	Weekend	46.8 ± 35.3	16.9 ± 16.2	1.5 ± 0.6	0.5 ± 0.4	65.8 ± 38.8	
	Weekday	0.8 ± 0.7	3.5 ± 2.3	2.5 ± 0.9	<.1 ± <.1	6.9 ± 2.6	

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 (1982-1987).

Species Year	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
Atlantic croaker						
1982-83						
Weekend	0.0	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	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
1986-87						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1	0.0
Atlantic sharpnose shark						
1982-83						
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	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1	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
1986-87						
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 H.5. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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
1986-87	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
King mackerel							
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
1986-87	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 H.5. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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	
1986-87	Weekend	0.0	0.2 ± 0.1	0.0	0.0	0.2 ± 0.1	
	Weekday	0.0	0.4 ± 0.3	0.0	0.0	0.4 ± 0.3	
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	
1986-87	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
	Weekday	0.0	0.3 ± 0.2	0.0	0.0	0.3 ± 0.2	

Table H.5. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Sand seatrout							
1982-83							
	Weekend	0.0	1.1 ± 0.5	0.0	0.0	0.0	1.1 ± 1.1
	Weekday	0.0	4.5 ± 1.7	0.0	0.0	0.0	4.5 ± 3.5
1983-84							
	Weekend	0.0	7.0 ± 4.2	0.0	0.0	0.0	7.0 ± 4.2
	Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1984-85							
	Weekend	0.0	17.5 ± 16.6	0.0	0.0	0.0	17.5 ± 16.6
	Weekday	0.0	0.2 ± 0.2	0.0	0.0	0.0	0.2 ± 0.2
1985-86							
	Weekend	0.0	4.2 ± 2.9	0.0	0.0	0.0	4.2 ± 2.9
	Weekday	0.0	1.1 ± 1.1	0.0	0.0	0.0	1.1 ± 1.1
1986-87							
	Weekend	<.1 ± <.1	0.6 ± 0.4	0.0	0.0	0.0	0.6 ± 0.4
	Weekday	0.0	5.7 ± 3.5	0.0	0.0	0.0	5.7 ± 3.5
Spanish mackerel							
1982-83							
	Weekend	0.0	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
	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	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
	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
1986-87							
	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 H.5. (Cont'd.)

Species Year	Area					Coastwide ^a
	Day type	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spotted seatrout						
1982-83						
Weekend	0.0	0.1 ± <.1	0.0	0.0	0.0	0.1 ± 0.1
Weekday	0.0	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
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	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1986-87						
Weekend	0.0	0.2 ± 0.2	0.0	0.0	0.0	0.2 ± 0.2
Weekday	0.0	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
Vermilion snapper						
1982-83 ^b						
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	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
1986-87						
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 H.5. (Cont'd.)

Species Year	Area						Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre			
Day type							
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
1986-87							
Weekend	0.0	0.5	0.2 ± 0.2	0.0			0.7
Weekday	0.0	1.1	0.0	0.0			1.1
All species combined ^a							
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
1986-87							
Weekend	<.1 ± <.1	1.5 ± 0.7	0.2 ± 0.2	0.0			1.7 ± 0.7
Weekday	0.0	7.5 ± 4.5	0.0	0.0			7.5 ± 4.5

^aDue to rounding of numbers, these totals may not exactly equal individual totals.^bThis 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 (1982-1987).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
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
1986-87	0.01 \pm 0.01	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
Atlantic sharpnose shark					
1982-83 ^b					
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
1986-87	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm <.01	0.0	0.01 \pm <.01
Cobia					
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
1986-87	0.00	0.00	0.00	0.01 \pm 0.01	<.01 \pm <.01
King mackerel					
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
1983-84	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
1986-87	0.01 \pm 0.01	<.01 \pm <.01	0.02 \pm 0.01	0.02 \pm 0.01	0.01 \pm <.01
Red drum					
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
1986-87	0.00	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01

Table H.6. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Day type					
Red snapper					
1982-83	0.02 ± 0.02	0.33 ± 0.23	0.01 ± 0.01	0.20 ± 0.10	0.11 ± 0.07
1983-84	<.01 ± <.01	0.05 ± 0.03	<.01 ± <.01	0.18 ± 0.09	0.01 ± 0.01
1984-85	0.00	0.08 ± 0.07	<.01 ± <.01	<.01 ± <.01	0.02 ± 0.02
1985-86	0.00	0.02 ± 0.01	0.01 ± <.01	0.18 ± 0.16	0.03 ± 0.02
1986-87	0.11 ± 0.11	<.01 ± <.01	<.01 ± <.01	0.06 ± 0.06	0.02 ± 0.01
Sand seatrout					
1982-83	<.01 ± <.01	1.00 ± 0.64	0.07 ± 0.04	0.06 ± 0.04	0.29 ± 0.19
1983-84	<.01 ± <.01	0.36 ± 0.22	<.01 ± <.01	0.00	0.02 ± 0.02
1984-85	0.20 ± 0.20	0.49 ± 0.43	<.01 ± <.01	0.00	0.14 ± 0.11
1985-86	0.01 ± 0.01	0.22 ± 0.10	<.01 ± <.01	0.00	0.05 ± 0.02
1986-87	1.28 ± 1.17	0.15 ± 0.11	0.00	0.00	0.21 ± 0.14
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
1986-87	0.04 ± 0.03	0.00	0.00	<.01 ± <.01	<.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
1986-87	0.03 ± 0.03	0.02 ± 0.02	<.01 ± <.01	0.00	0.01 ± 0.01
Vermilion snapper					
1982-83 ^b					0.00
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
1986-87	0.00	0.00	0.00	0.00	0.00

Table H.6. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	0.01 ± 0.01	0.06	0.01 ± <.01	0.01 ± 0.01	0.03
All species combined ^a					
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
1986-87	1.51 ± 1.26	0.25 ± 0.18	0.03 ± 0.02	0.10 ± 0.08	0.29 ± 0.16

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 (1982-1986).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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	
1986	Weekend	0.01 \pm 0.01	0.00	0.00	0.00	<.01 \pm <.01	
	Weekday	0.00	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01	
Atlantic sharpnose shark							
1982 ^b	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	
1986	Weekend	<.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	0.00	<.01 \pm <.01	
	Weekday	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm 0.01	0.00	0.01 \pm 0.01	

Table H.7. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a	
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre			
Cobia 1982	Weekend	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	
	Weekday	0.02 ± 0.02	0.01 ± <.01	<.01 ± <.01	0.00	0.01 ± <.01	0.01 ± 0.01	
	1983	Weekend	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
		Weekday	0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01
	1984	Weekend	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
		Weekday	0.00	0.00	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01
1985	Weekend	<.01 ± <.01	0.00	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	
	Weekday	0.00	<.01 ± <.01	0.00	0.00	<.01 ± <.01	<.01 ± <.01	
1986	Weekend	0.00	0.00	0.00	0.00	0.00	0.00	
	Weekday	0.00	0.00	0.00	0.05 ± 0.05	0.00	0.00	
King mackerel								
1982	Weekend	0.08 ± 0.08	0.06 ± 0.03	0.03 ± 0.01	0.04 ± 0.03	0.05 ± 0.02	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	0.14 ± 0.10	
1983	Weekend	0.00	0.05 ± 0.04	0.04 ± 0.02	0.02 ± 0.02	0.04 ± 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	0.04 ± 0.03	
1984	Weekend	0.00	0.03 ± 0.02	0.07 ± 0.04	0.07 ± 0.04	0.06 ± 0.02	0.06 ± 0.02	
	Weekday	0.00	0.04 ± 0.02	0.10 ± 0.05	0.02 ± 0.02	0.08 ± 0.04	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	0.03 ± 0.01	
	Weekday	0.02 ± 0.02	0.07 ± 0.04	0.08 ± 0.04	<.01 ± <.01	0.05 ± 0.02	0.05 ± 0.02	
1986	Weekend	0.01 ± 0.01	<.01 ± <.01	0.01 ± 0.01	0.02 ± 0.02	0.01 ± <.01	0.01 ± <.01	
	Weekday	0.08 ± 0.08	<.01 ± <.01	0.03 ± 0.02	0.00	0.02 ± 0.02	0.02 ± 0.01	

Table H.7. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Red drum							
1982	Weekend	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00
	Weekday	0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01
1983	Weekend	0.00	0.02 ± 0.01	0.00	0.00	0.01 ± <.01	<.01 ± <.01
	Weekday	0.00	0.03 ± 0.02	<.01 ± <.01	0.00	0.00	<.01 ± <.01
1984	Weekend	0.00	0.01 ± <.01	0.00	0.00	0.01 ± <.01	<.01 ± <.01
	Weekday	0.00	0.02 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01
1985	Weekend	0.00	0.01 ± <.01	0.00	0.00	0.00	<.01 ± <.01
	Weekday	0.00	<.01 ± <.01	0.00	0.00	0.00	<.01 ± <.01
1986	Weekend	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00
	Weekday	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00
1986	Weekend	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00
	Weekday	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00
Red snapper							
1982	Weekend	0.06 ± 0.06	0.38 ± 0.29	0.02 ± 0.01	0.07 ± 0.04	0.16 ± 0.13	0.16 ± 0.13
	Weekday	0.00	0.07 ± 0.05	0.01 ± 0.01	0.46 ± 0.32	0.03 ± 0.02	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	0.03 ± 0.02
	Weekday	0.00	0.06 ± 0.06	<.01 ± <.01	0.03 ± 0.02	<.01 ± <.01	<.01 ± <.01
1984	Weekend	0.00	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01
	Weekday	0.00	0.02 ± 0.01	<.01 ± <.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	0.01 ± 0.01
	Weekday	0.00	0.02 ± 0.02	0.00	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1986	Weekend	0.12 ± 0.12	<.01 ± <.01	0.00	0.08 ± 0.07	0.03 ± 0.02	0.03 ± 0.02
	Weekday	0.00	<.01 ± <.01	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01

Table H.7. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Sand seatrout						
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
1986	Weekend	1.42 ± 1.31	0.24 ± 0.24	0.00	0.00	0.35 ± 0.27
	Weekday	0.20 ± 0.20	0.00	0.00	0.00	<.01 ± <.01
Spanish mackerel						
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
1986	Weekend	0.04 ± 0.04	0.00	0.00	<.01 ± <.01	0.01 ± 0.01
	Weekday	<.01 ± <.01	0.00	0.00	0.00	0.00

Table H.7. (Cont'd.)

Species Year	Area						Coastwide ^a
	Day type	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Other species							
1982							
Weekend	0.12 ± 0.10	0.05 ± 0.03	0.05 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.05 ± 0.02	0.72 ± 0.51
Weekday	0.02 ± 0.02	0.01 ± 0.01	0.03 ± 0.01	0.04 ± 0.03	0.04 ± 0.03	0.02 ± 0.01	0.72 ± 0.51
1983							
Weekend	0.12	0.06	0.02 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.03	0.03
Weekday	0.00	0.20	0.02 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.01	0.01
1984							
Weekend	0.00	0.08	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.03	0.03
Weekday	0.01	0.20	0.04	<.01 ± <.01	<.01 ± <.01	0.04	0.04
1985							
Weekend	0.03	0.07	0.14	0.01	0.01	0.11	0.11
Weekday	0.00	0.21	0.02	0.03	0.03	0.05	0.05
1986							
Weekend	0.02	0.07	<.01	0.02 ± 0.02	0.02 ± 0.02	0.03	0.03
Weekday	0.26 ± 0.26	0.03	0.01 ± <.01	0.00	0.00	0.02	0.02
All species combined ^a							
1982							
Weekend	0.42 ± 0.27	1.58 ± 1.11	0.21 ± 0.10	0.20 ± 0.11	0.20 ± 0.11	0.72 ± 0.51	0.72 ± 0.51
Weekday	0.32 ± 0.32	0.71 ± 0.56	0.18 ± 0.07	0.70 ± 0.48	0.70 ± 0.48	0.32 ± 0.18	0.32 ± 0.18
1983							
Weekend	0.34 ± 0.26	0.43 ± 0.25	0.07 ± 0.04	0.47 ± 0.24	0.47 ± 0.24	0.15 ± 0.07	0.15 ± 0.07
Weekday	0.00	0.49 ± 0.24	0.19 ± 0.10	0.13 ± 0.10	0.13 ± 0.10	0.06 ± 0.04	0.06 ± 0.04
1984							
Weekend	0.00	0.24 ± 0.10	0.11 ± 0.05	0.09 ± 0.05	0.09 ± 0.05	0.14 ± 0.04	0.14 ± 0.04
Weekday	0.61 ± 0.61	0.41 ± 0.18	0.17 ± 0.07	0.28 ± 0.26	0.28 ± 0.26	0.23 ± 0.09	0.23 ± 0.09
1985							
Weekend	0.10 ± 0.08	0.27 ± 0.11	0.20 ± 0.12	0.12 ± 0.09	0.12 ± 0.09	0.20 ± 0.09	0.20 ± 0.09
Weekday	0.02 ± 0.02	0.49 ± 0.29	0.11 ± 0.05	0.05 ± 0.04	0.05 ± 0.04	0.15 ± 0.06	0.15 ± 0.06
1986							
Weekend	1.65 ± 1.42	0.36 ± 0.35	0.02 ± 0.02	0.11 ± 0.09	0.11 ± 0.09	0.44 ± 0.30	0.44 ± 0.30
Weekday	0.64 ± 0.59	0.05 ± 0.05	0.00 ± 0.04	0.05 ± 0.05	0.05 ± 0.05	0.06 ± 0.04	0.06 ± 0.04

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis species is included in other species in this year.

Table H.8. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Red drum						
1982-83						
Weekend		0.08 ± 0.04	0.00			0.01 ± 0.01
Weekday		0.01 ± <.01	0.00	0.00		0.01 ± 0.01
1983-84						
Weekend		0.02 ± 0.02	0.00	0.00		0.01 ± 0.01
Weekday			0.00	0.06 ± 0.06		<.01 ± <.01
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	0.01 ± 0.01	0.00	0.00		<.01 ± <.01
Weekday		0.00				0.00
1986-87						
Weekend	0.00	0.10 ± 0.05	0.00		0.00	0.02 ± 0.01
Weekday	0.00	0.07 ± 0.06	0.00		0.00	0.03 ± 0.02
Red snapper						
1982-83						
Weekend		0.00	0.00			0.00
Weekday		0.65 ± 0.03	0.00	0.28 ± 0.28		0.49 ± 0.41
1983-84						
Weekend		0.05 ± 0.04	0.00	0.00		0.02 ± 0.02
Weekday			0.00	0.00		0.00
1984-85						
Weekend		0.17 ± 0.15	0.16 ± 0.16	0.00		0.15 ± 0.13
Weekday		0.00	0.00	0.00		0.00
1985-86						
Weekend	0.00	0.05 ± 0.04	0.00	0.50 ± 0.50		0.29 ± 0.28
Weekday		0.44 ± 0.44				0.44 ± 0.44
1986-87						
Weekend	0.00	<.01 ± <.01	0.00	0.00		<.01 ± <.01
Weekday	0.00	0.06 ± 0.04	0.00	0.00		0.02 ± 0.02

Table H.8. (Cont'd.)

Species Year	Day type	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Sand seatrout						
1982-83	Weekend		2.75 ± 1.20	0.00	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
1986-87	Weekend	0.02 ± 0.02	0.31 ± 0.24	0.00	0.00	0.07 ± 0.05
	Weekday	0.00	1.11 ± 0.81	0.00	0.00	0.44 ± 0.35
Spanish mackerel						
1982-83	Weekend		0.03 ± 0.01	0.00	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
1986-87	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday	0.00	0.00	0.00	0.00	0.00

Table H.8. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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
1986-87						
Weekend	0.00	0.29	0.03 ± 0.03	0.00		0.08
Weekday	0.00	0.22	0.00	0.00		0.09
All species combined ^a						
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			1.32 ± 1.00
Weekday			0.00	0.06 ± 0.06		<.01 ± <.01
1984-85						
Weekend		1.24 ± 0.05	0.16 ± 0.16			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
1986-87						
Weekend	0.02 ± 0.02	0.81 ± 0.48	0.03 ± 0.03	0.00		0.19 ± 0.13
Weekday	0.00	1.47 ± 1.06	0.00	0.00		0.58 ± 0.45

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 (1982-1987). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Atlantic croaker						
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
1986-87	0.06	0.23 \pm 0.12				0.15 \pm 0.09
Atlantic sharpnose shark						
1982-83 ^a		7.53	5.89 \pm 0.10			5.94 \pm 0.32
1983-84			1.51 \pm 0.09			1.54 \pm 0.21
1984-85		1.82 \pm 1.23	5.70 \pm 0.48			5.58 \pm 0.62
1985-86	4.79	4.85 \pm 1.09	6.37 \pm 0.57			4.56 \pm 0.59
1986-87	5.34 \pm 0.29	3.19 \pm 0.63				
Cobia						
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
1986-87	0.00	5.68 \pm 0.20	5.42	5.42		5.47 \pm 4.45
King mackerel						
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
1986-87	9.61 \pm 0.49	9.66 \pm 1.28	8.18 \pm 0.46	9.01 \pm 0.85		8.51 \pm 0.57
Red drum						
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
1986-87	0.00	2.12 \pm 0.17	3.38			2.14 \pm 0.21

Table H.9. (Cont'd.)

Species Year	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
Red snapper						
1982-83		0.35 ± 0.06	0.33 ± 0.19	0.64 ± 0.50	0.40 ± 0.15	
1983-84		0.45 ± 0.03	0.27 ± 0.08	0.48 ± 0.07	0.43 ± 0.06	
1984-85		0.50 ± 0.07	0.09 ± 0.03	0.22 ± 0.07	0.48 ± 0.07	
1985-86		0.35 ± 0.07	0.35 ± 0.09	0.94 ± 0.43	0.81 ± 0.35	
1986-87	0.87	0.31 ± 0.03	0.37 ± 0.01	0.68 ± 0.21	0.78 ± 0.71	
Sand seatrout						
1982-83	0.45	0.38 ± 0.33	0.26 ± 0.05	0.40	0.35 ± 0.21	
1983-84	0.11	0.44 ± 0.02	0.34		0.43 ± 0.03	
1984-85	0.20	0.46 ± 0.02	0.26 ± 0.04		0.44 ± 0.04	
1985-86	0.15 ± 0.07	0.41 ± 0.03	0.35 ± 0.04		0.40 ± 0.03	
1986-87	0.21 ± 0.01	0.38 ± 0.03			0.26 ± 0.02	
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	
1986-87	1.77 ± 1.19	0.00	0.96 ± 0.32	1.45	1.76 ± 1.18	
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	
1986-87	0.93 ± 0.05	0.82 ± 0.14	1.00		0.86 ± 0.15	
Vermilion snapper						
1982-83 ^a						
1983-84						
1984-85						
1985-86						
1986-87						

Table H.9. (Cont'd.)

Species Year	Area					Coastwide ^a
	Day type	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
All species combined ^b						
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
1986-87		2.06 ± 1.20	1.93 ± 0.54	5.82 ± 0.69	2.21 ± 1.37	2.21 ± 0.26

^aMean weights are not available for this species for this year.

^bIncludes "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 (1982-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Day type	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide ^a
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
1986	Weekend	0.06			0.06
	Weekday		0.11		0.11
Atlantic sharpnose shark					
1982 ^a	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				1.48 \pm 1.44
	Weekday		1.82 \pm 1.23	1.46	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
1986	Weekend	5.42 \pm 0.34	0.48	5.95 \pm 0.54	2.70 \pm 0.48
	Weekday	4.82	3.57 \pm 0.66	6.68 \pm 0.76	5.02 \pm 0.73

Table H.10. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Cobia						
1982						
Weekend		18.18 ± 1.29	9.90	4.55		12.70 ± 3.40
Weekday		6.74 ± 0.73	8.83 ± 1.94			7.77 ± 1.36
1983						
Weekend		15.16	19.16	3.92		9.85 ± 9.85
Weekday		10.69 ± 0.23				13.52 ± 6.54
1984						
Weekend		9.30 ± 1.39	11.13			10.25 ± 6.45
Weekday			8.57			8.57
1985						
Weekend	3.74	7.17 ± 0.73	4.83 ± 4.06	16.80		5.81 ± 5.47
Weekday						7.17 ± 0.73
1986						
Weekend		5.68 ± 0.20	5.42	5.42		5.42
Weekday						5.47 ± 4.38
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
1986						
Weekend	9.17 ± 0.69	11.54 ± 0.25	8.71 ± 0.55	9.01 ± 0.85		9.02 ± 0.63
Weekday	10.46	8.71 ± 1.61	7.77 ± 0.61			8.02 ± 1.29

Table H.10. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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
1986						
Weekend		2.29 ± 0.29	3.38			2.43 ± 0.69
Weekday		1.72 ± 0.28				1.72 ± 0.28
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
1986						
Weekend	0.87	0.16 ± 0.00	0.34		0.68 ± 0.21	0.85 ± 0.81
Weekday		0.35 ± 0.05	0.38			0.36 ± 0.19

Table H.10. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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
1986	Weekend	0.20 ± 0.01	0.38				0.24 ± 0.09
	Weekday	0.33	0.36 ± 0.12				0.34 ± 0.32
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
1986	Weekend	1.97 ± 1.46		0.63	1.45		1.96 ± 1.46
	Weekday	0.33		1.28			0.85

Table H.10. (Cont'd.)

Species Year	Day type	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Spotted seatrout						
1982	Weekend	0.76	0.63 ± 0.14	0.34 ± 0.01	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
1986	Weekend	0.96	0.78 ± 0.28	1.00		0.85 ± 0.53
	Weekday	0.67	0.86 ± 0.21			0.83 ± 0.30
Vermilion snapper						
1982 ^a	Weekend					
	Weekday					
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					

Table H.10. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
All species combined ^b							
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	
1986							
	Weekend	1.74 ± 1.21	3.07 ± 1.70	5.93 ± 0.78	2.01 ± 1.45	2.14 ± 0.48	
	Weekday	4.62 ± 4.51	2.94 ± 0.71	5.95 ± 1.13	5.40	4.24 ± 1.02	

^aMean weights are not available for this species in this year.

^bIncludes "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 (1982-1987). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi Lower Laguna Madre	Coastwide ^a
Atlantic croaker						
	1982-83	Weekend				
		Weekday		0.28		0.28
	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				
	1985-86	Weekend				
		Weekday				
	1986-87	Weekend				
		Weekday		0.35		0.35
Atlantic sharpnose shark						
	1982-83 ^a	Weekend				
		Weekday				
	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				
	1985-86	Weekend				
		Weekday				
	1986-87	Weekend				
		Weekday				

Table H.11. (Cont'd.)

Species Year	Day type	Area			Coastwide ^a
		Galveston	Matagorda	Corpus Christi Lower Laguna Madre	
Cobia					
1982-83	Weekend				
	Weekday				
1983-84	Weekend				
	Weekday				
1984-85	Weekend				
	Weekday				
1985-86	Weekend				
	Weekday				
1986-87	Weekend				
	Weekday				
King mackerel					
1982-83	Weekend				
	Weekday				
1983-84	Weekend				
	Weekday				
1984-85	Weekend				
	Weekday				
1985-86	Weekend				
	Weekday				
1986-87	Weekend				
	Weekday				

Table H.11. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Red drum						
1982-83						
Weekend		1.65				1.65
Weekday		1.23				1.23
1983-84						
Weekend				2.20		2.20
Weekday						
1984-85						
Weekend						
Weekday						
1985-86						
Weekend		3.28 ± 0.15				3.28 ± 0.15
Weekday						
1986-87						
Weekend		2.40 ± 0.36				2.40 ± 0.36
Weekday		1.88 ± 0.26				1.88 ± 0.26
Red snapper						
1982-83						
Weekend						
Weekday				1.33		0.45 ± 0.32
1983-84						
Weekend		0.40 ± 0.07				0.75 ± 0.28
Weekday		0.75 ± 0.28				
1984-85						
Weekend		0.42	0.04			0.42 ± 0.42
Weekday						
1985-86						
Weekend		0.34 ± 0.08		0.50		0.49 ± 0.47
Weekday		0.16				0.16
1986-87						
Weekend		0.16				0.16
Weekday		0.30 ± 0.12				0.30 ± 0.02

Table H.11. (Cont'd.)

Species Year Day type	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Sand seatrout					
1982-83					
Weekend					0.43 ± 0.79
Weekday		0.43 ± 0.79			
1983-84					
Weekend		0.43 ± 0.02			0.43 ± 0.02
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend		0.42 ± 0.04			0.42 ± 0.04
Weekday		0.44			0.44
1986-87					
Weekend	0.34	0.34 ± 0.04			0.34 ± 0.06
Weekday		0.39 ± 0.04			0.39 ± 0.04
Spanish mackerel					
1982-83					
Weekend					0.30
Weekday		0.30			
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					0.28
Weekday		0.28			
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					

Table H.11. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
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				
	1986-87					
		Weekend		0.80		0.80
		Weekday		1.76		1.76
Vermilion snapper						
	1982-83 ^a					
		Weekend				
		Weekday				
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				
		Weekday				
	1985-86					
		Weekend				
		Weekday				
	1986-87					
		Weekend				
		Weekday				

Table H.11. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
All species combined ^b						
1982-83			2.63	1.33		1.09 ± 0.56
Weekend		0.98				0.45 ± 0.80
Weekday		0.44 ± 0.94				
1983-84				1.40		0.55 ± 0.06
Weekend		0.53 ± 0.05		2.20		2.20
Weekday						
1984-85						0.75 ± 0.26
Weekend		0.75 ± 0.26				1.48 ± 1.09
Weekday		1.48 ± 1.09				
1985-86						0.76 ± 0.25
Weekend		0.96 ± 0.06	0.96 ± 0.06	0.50 ± 0.50		0.30 ± 0.30
Weekday		0.30 ± 0.30	0.30 ± 0.30	0.50 ± 0.50		
1986-87						1.50 ± 0.12
Weekend	0.30	1.59 ± 0.55	1.00 ± 1.00			0.69
Weekday		0.69 ± 0.14				

^aMean weights are not available for this species in this year.

^bIncludes "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 (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Atlantic croaker						
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
1986-87	174	255 \pm 45				217 \pm 104
Atlantic sharpnose shark						
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
1986-87	919 \pm 14	613 \pm 108	959 \pm 25			766 \pm 70
Cobia						
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
1986-87		895 \pm 7	887	877		888 \pm 723
King mackerel						
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
1986-87	1005 \pm 17	993 \pm 46	947 \pm 15	993 \pm 32		959 \pm 22
Red drum						
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
1986-87		572 \pm 15	680			573 \pm 22
Red snapper						
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
1986-87	399	281 \pm 11	303 \pm 1	356 \pm 46		381 \pm 323

Table H.12. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Sand seatrout						
1983-84	219	343 ± 5	318		339 ± 11	
1984-85	267	346 ± 7	286 ± 11		339 ± 25	
1985-86	236 ± 27	333 ± 9	308 ± 11		330 ± 9	
1986-87	268 ± 5	325 ± 9			286 ± 6	
Spanish mackerel						
1983-84		578 ± 12	612 ± 17	432	595 ± 10	
1984-85		593 ± 53	595	721	438 ± 215	
1985-86	694 ± 87	611 ± 62	580 ± 25	660	616 ± 60	
1986-87	590 ± 137		564 ± 68		590 ± 139	
Spotted seatrout						
1983-84		430 ± 19	511	513	432 ± 31	
1984-85	445 ± 20	487 ± 9	469 ± 12	442	471 ± 55	
1985-86		448 ± 17			448 ± 17	
1986-87	456 ± 10	432 ± 22	468		440 ± 35	
Vermilion snapper						
1983-84						
1984-85						
1985-86						
1986-87						
All species combined ^a						
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	
1986-87	444 ± 106	455 ± 31	783 ± 60	497 ± 102	466 ± 24	

^aIncludes "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 (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
1983					201
Weekend	201				322
Weekday		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
1986					
Weekend	174				174
Weekday		210			210
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
1986					
Weekend	923 \pm 16	473	943 \pm 23		667 \pm 283
Weekday	895	633 \pm 147	970 \pm 36		791 \pm 99
Cobia					
1983				800	
Weekend		1230			1035 \pm 710
Weekday		1101 \pm 8	1325		1173 \pm 325
1984					
Weekend		1048 \pm 51	1115		1073 \pm 329
Weekday			1026		1026

Table H.13. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Cobia (Cont'd.)							
1985	Weekend	788	968 ± 32	785 ± 216	1276		846 ± 593
	Weekday						968 ± 32
1986	Weekend			887			887
	Weekday		895 ± 7		887		889 ± 711
King mackerel							
1983	Weekend		1002 ± 36	974 ± 18	911 ± 59		978 ± 23
	Weekday		992 ± 33	1027 ± 18	1069 ± 11		1027 ± 18
1984	Weekend		977 ± 14	932 ± 20	837 ± 16		928 ± 17
	Weekday		1104 ± 78	992 ± 20	889		990 ± 66
1985	Weekend	1549 ± 349	938 ± 26	925 ± 18	915		992 ± 61
	Weekday		922 ± 10	927 ± 21			926 ± 19
1986	Weekend	989 ± 22	1073 ± 10	971 ± 18	993 ± 32		983 ± 28
	Weekday	1036	952 ± 54	929 ± 19			937 ± 83
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
1986	Weekend		577 ± 28	680			590 ± 111
	Weekday		549 ± 26				540 ± 26

Table H.13. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Red snapper							
1983	Weekend		3	232 ±	0	326 ±	300 ±
	Weekday			263 ±	14	328	284 ±
1984	Weekend		19	212 ±	1	243 ±	271 ±
	Weekday		26	210		260	270 ±
1985	Weekend		22	282 ±	29	300 ±	291 ±
	Weekday					463	370 ±
1986	Weekend	399	2	297		356 ±	394 ±
	Weekday		19	303			296 ±
Sand seatrout							
1983	Weekend	219	19				306 ±
	Weekday			318			318
1984	Weekend		7	272 ±	5		327 ±
	Weekday	267		322 ±	15		281 ±
1985	Weekend		31	309 ±	13		290 ±
	Weekday	236 ±	0	296			324 ±
1986	Weekend	266 ±	3				279 ±
	Weekday	314	33				314 ±
Spanish mackerel							
1983	Weekend		5	587 ±	40		588 ±
	Weekday		38	626 ±	7		612 ±
1984	Weekend		57	595		432	606 ±
	Weekday		673				432 ±
1985	Weekend	694 ±	81	615 ±	43	724	631 ±
	Weekday		49	556 ±	22		569 ±

Table H.13. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Spanish mackerel (Cont'd.)							
1986	Weekend	617 ± 168		496	660		617 ± 171
	Weekday	397		632			527 ± 527
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
1986	Weekend	462	423 ± 44	468			437 ± 197
	Weekday	408	440 ± 34				434 ± 106
Vermilion snapper							
1983	Weekend						
	Weekday						
1984	Weekend						
	Weekday						
1985	Weekend						
	Weekday						
1986	Weekend						
	Weekday						

Table H.13. (Cont'd.)

Species Year	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
All species combined ^a						
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	
1986						
Weekend	414 ± 113	490 ± 55	834 ± 56	472 ± 102	444 ± 97	
Weekday	629 ± 321	560 ± 50	761 ± 99	887	644 ± 106	

^aIncludes "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 (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			Coastwide ^a
			Galveston	Matagorda	Corpus Christi Lower Laguna Madre	
Atlantic croaker						
	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				
	1985-86	Weekend				
		Weekday				
	1986-87	Weekend		299		299
		Weekday				
Atlantic sharpnose shark						
	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				
	1985-86	Weekend				
		Weekday				
	1986-87	Weekend				
		Weekday				
Cobia						
	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				

Table H.14. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type					
Cobia (Cont'd.)					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					
King mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					
Red drum					
1983-84					
Weekend					
Weekday			595		595
1984-85					
Weekend					
Weekday					
1985-86					
Weekend	670 ±	7			670 ± 7
Weekday					
1986-87					
Weekend	601 ±	30			601 ± 30
Weekday	555 ±	26			555 ± 26

Table H.14. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Calveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	Weekend		235			235
	Weekday		280 ± 8			280 ± 8
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
1986-87	Weekend	318	312 ± 11			313 ± 34
	Weekday		327 ± 11			327 ± 11
Spanish mackerel						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday					
1985-86	Weekend					
	Weekday					
			374			374

Table H.14. (Cont'd.)

Species Year	Area			
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Spanish mackerel (Cont'd.)				
1986-87				
Weekend				
Weekday				
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday				
1985-86				
Weekend		479		
Weekday				
1986-87				
Weekend		427		
Weekday		570		
Vermilion snapper				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				

479

427
570

479

427
570

Table H.14. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
All species combined ^a						
1983-84						
Weekend		335 ± 10		315 ± 315	335 ± 14	
Weekday				595 ± 595	595	
1984-85			151	819 ± 819	382 ± 28	
Weekend		379 ± 21		520 ± 520	470 ± 172	
Weekday		461 ± 107				
1985-86				331	363 ± 148	
Weekend		388 ± 7			318	
Weekday		318 ± 318				
1986-87			396		460 ± 15	
Weekend	318	471 ± 50			359	
Weekday		359 ± 13				

^aIncludes "other" species.

Table H.15. Percent composition of "other" species caught by private-boat fishermen in the TTS by area, season and day type (1983-1987).

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>		12.27		1.45		1.18
			Atlantic spadefish	<u>Chaetodipterus faber</u>		3.80				7.65
			Banded rudderfish	<u>Seriola zonata</u>	58.82	6.33				2.94
			Black drum	<u>Pogonius cromis</u>	29.41	3.80				4.71
			Blackfin tuna	<u>Thunnus atlanticus</u>				2.90		1.18
			Bluefish	<u>Pomatomus saltatrix</u>		12.66			20.00	6.47
			Blue runner	<u>Caranx crysos</u>					20.00	0.59
			Bony fishes sp.	<u>Class Osteichthyes</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>						
			Gray triggerfish	<u>Coryphaena hippurus</u>		2.53		2.90		2.35
			Great barracuda	<u>Ballistes capricus</u>		1.27				0.59
			Greater amberjack	<u>Sphyræna barracuda</u>		2.53				1.18
			Gulf kingfish	<u>Seriola dumerili</u>		3.80		4.35		3.53
			Ladyfish	<u>Menticirrhus littoralis</u>		6.33				2.94
			Little tunny	<u>Elops saurus</u>		1.27				0.59
			Pigfish	<u>Euthynnus alletteratus</u>		1.27		11.59		5.29
			Sailfish	<u>Istiophorus chrysoptera</u>		1.27				0.59
			Sea basses sp.	<u>Family Serranidae</u>				2.90		1.18
			Rock hind	<u>Epinephelus adscensionis</u>				1.45		0.59
			Warsaw grouper	<u>Epinephelus nigrilus</u>		1.27		2.90	20.00	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>		5.06				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	Corpus 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>					0.65
			Sailfish	<u>Istiophorus platyperus</u>	0.84		2.86		0.65
			Sea basses sp.	Family <u>Serranidae</u>					
			Gag	<u>Mycteroperca microlepis</u>	2.52				1.94
			Jewfish	<u>Epinephalus itajara</u>			2.86		0.65
			Warsaw grouper	<u>Epinephalus nigritus</u>			2.86		0.65
			Sharks sp.						
			Blacknose shark	<u>Carcharhinus acronotus</u>		8.40	2.86		0.65
			Blacktip shark	<u>Carcharhinus limbatus</u>			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					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1984-85	High use		Atlantic bonito	<u>Sarda sarda</u>	0.29					0.24
	Weekend		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
			Creville 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		1.69	5.26		0.48
			Gray triggerfish	<u>Balistes capricus</u>	9.91					8.55
			Great barracuda	<u>Sphyrna barracuda</u>				10.53		0.48
			Greater amberjack	<u>Seriola dumerili</u>	0.29		1.69	5.26		0.24
			Gulf kingfish	<u>Menticirrhus littoralis</u>	0.58		8.47	21.05		0.95
			Little tunny	<u>Euthynnus alletteratus</u>						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>			1.69	5.26		0.48
			Sandbar shark	<u>Carcharhinus plumbeus</u>	0.29					0.24
			Spinner shark	<u>Carcharhinus brevipinna</u>			1.69			0.24
			Sheepshead	<u>Archosargus probatocephalus</u>			1.69			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>						2.38
			Southern flounder	<u>Paralichthys lethostigma</u>	2.92					0.24
			Southern kingfish	<u>Menticirrhus americanus</u>	0.29					0.24
			Tarpon	<u>Megalops atlanticus</u>	0.29					0.24

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
	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		4.07		1.08
			Gulf kingfish	<u>Menticirrhus littoralis</u>				2.44	100.00	1.80
			Little tunny	<u>Euthynnus alletteratus</u>		0.66		0.81		1.44
			Pigfish	<u>Orthopristis chrysoptera</u>						0.36
			Pinfish	<u>Lagodon rhomboides</u>		1.32		0.66		0.36
			Rainbow runner	<u>Elagatis bipinnulata</u>						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>Carcharhinidae</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>		0.66				1.08
			Silver seatrout	<u>Cynoscion nothus</u>		65.56	66.67	51.22		58.27
			Snappers sp.	Family <u>Lutjanidae</u>						
			Lane snapper	<u>Lutjanus synagris</u>		1.32		4.07		0.72
			Southern flounder	<u>Paralichthys lethostigma</u>		0.66				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
			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

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
			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
			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>	16.67	1.53		4.52		3.25
			Atlantic spadefish	<u>Chaetodipterus faber</u>		22.96		10.00		14.91
			Bighead searobin	<u>Prionotus tribulus</u>				0.32		0.19
			Black drum	<u>Pogonius cromis</u>		4.59		3.22		3.63
			Blackfin tuna	<u>Thunnus atlanticus</u>		0.51		0.64		0.19
			Bluefish	<u>Pomatomus saltatrix</u>		3.06		11.29		1.53
			Blue runner	<u>Caranx crysos</u>		1.02		0.32		7.08
			Cero	<u>Scomberomorus regalis</u>		5.61		1.29		0.19
			Crevalle jack	<u>Caranx hippos</u>		1.02			60.00	3.44
			Dolphins sp.	Family Coryphaenidae						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		2.90		0.96
			Gray triggerfish	<u>Balistes capricus</u>		4.59				3.44
			Great barracuda	<u>Sphyræna barracuda</u>		1.02		1.29		0.38
			Greater amberjack	<u>Seriola dumerili</u>		6.12				3.06
			Gulf kingfish	<u>Menticirrhus littoralis</u>		2.04				0.76
			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		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>Epinephelus nigritus</u>		8.33			40.00	0.57

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide		
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre				
			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 <u>Carcharhinidae</u>		1.53		4.84				0.57
			Sandbar shark	<u>Carcharhinus plumbeus</u>								2.87
			Sandtiger sharks	Family <u>Odontaspidae</u>			8.33					0.19
			Sheepshead	<u>Archosargus probatocephalus</u>		1.02						0.38
			Skipjack tuna	<u>Euthynnus pelamis</u>		8.33						0.19
			Smooth puffer	<u>Lagocephalus laevigatus</u>		0.51						0.19
			Snappers sp.	Family <u>Lutjanidae</u>								0.19
			Lane snapper	<u>Lutjanus synagris</u>								0.19
			Southern flounder	<u>Paralichthys lethostigma</u>		11.73		0.32				4.40
			Southern kingfish	<u>Menticirrhus americanus</u>		2.04		4.19				3.25
			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		100.00		2.57
			Dolphins sp.	Family <u>Coryphaenidae</u>								8.41
			Dolphin	<u>Coryphaena hippurus</u>		7.42		20.00				2.10
			Gafftopsail catfish	<u>Bagre marinus</u>		2.30						4.91
			Gray triggerfish	<u>Balistes capricus</u>		4.86		5.71				0.23
			Great barracuda	<u>Sphyrna barracuda</u>		0.26						3.27
			Greater amberjack	<u>Seriola dumerili</u>		3.32		2.86				0.70
			Gulf kingfish	<u>Menticirrhus littoralis</u>		0.77						0.47
			Hardhead catfish	<u>Arius felis</u>				5.71				0.94
			Little tunny	<u>Enthynnus alletteratus</u>		0.51		5.71				0.23
			Remora	<u>Remora remora</u>				2.86				0.23
			Sea basses sp.	Family <u>Serranidae</u>		0.26						0.23
			Snowy grouper	<u>Epinephalus niveatus</u>				2.86				0.23
			Warsaw grouper	<u>Epinephalus nigritus</u>				2.86				0.23

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide	
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre			
			Sharks sp.								
			Blacktip shark	<u>Carcharhinus limbatus</u>		0.51		2.86			0.47
			Requiem sharks	Family <u>Carcharhinidae</u>		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 <u>Lutjanidae</u>							
			Grey snapper	<u>Lutjanus synagris</u>		0.26					0.23
			Southern flounder	<u>Paralichthys lethostigma</u>		0.26					0.23
			Tarpon	<u>Megalops atlanticus</u>				2.86			0.23
			Black drum	<u>Pogonias cromis</u>		21.88					21.88
			Pigfish	<u>Orthopristis chrysoptera</u>		3.12					3.12
			Sea basses sp.	Family <u>Serranidae</u>							
			Scamp	<u>Mycteroperca phenax</u>		3.12					3.12
			Sheepshead	<u>Archosargus probatocephalus</u>		68.75					68.75
			Snappers sp.	Family <u>Lutjanidae</u>							
			Yellowtail snapper	<u>Ocyurus chrysurus</u>		3.12					3.12
			Black drum	<u>Pogonias cromis</u>		60.00					60.00
			Sea basses sp.	Family <u>Serranidae</u>							
			Black grouper	<u>Mycteroperca bonaci</u>		40.00					40.00
1986-87											
			Atlantic bonito	<u>Sarda sarda</u>						20.00	
			Atlantic spadefish	<u>Chaetodipterus faber</u>		32.18		3.45			0.79
			Black drum	<u>Pogonias cromis</u>		9.20		3.45			23.81
			Bluefish	<u>Pomatomus saltatrix</u>		2.30					7.94
			Dolphins sp.	Family <u>Coryphaenidae</u>							1.59
			Dolphin	<u>Coryphaena hippurus</u>				41.38			9.52
			Gafftopsail catfish	<u>Bagre marinus</u>		11.49					7.94
			Gray triggerfish	<u>Balistes capriciscus</u>				6.90		20.00	2.38
			Greater amberjack	<u>Seriola dumerili</u>				6.90			1.59
			Gulf kingfish	<u>Menticirrhus littoralis</u>		8.05					5.56
			Hardhead catfish	<u>Arius felis</u>		3.45					2.38

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		2.30				1.59
			Ladyfish	<i>Elops saurus</i>		1.15				0.79
			Little tunny	<i>Euthynnus alletteratus</i>	20.00		3.45			2.38
			Pigfish	<i>Orthopristis chrysoptera</i>	20.00		3.45			0.79
			Pinfish	<i>Lagodon rhomboides</i>						0.79
			Rough scad	<i>Trachurus lathami</i>		2.30				1.59
			Sea basses sp.	Family Serranidae						
			Rock hind	<i>Epinephelus adscensionis</i>		1.15		20.00		1.59
			Rock sea bass	<i>Centropristis philadelphica</i>		6.90		1.59		
			Warsaw grouper	<i>Epinephelus nigritus</i>				40.00		1.59
			Sharks sp.							
			Blacktip shark	<i>Carcharhinus limbatus</i>		1.15		12.79		3.97
			Requiem sharks	Family Carcharhinidae		10.34		6.90		8.73
			Sheepshead	<i>Archosargus probatocephalus</i>		8.05		3.45		6.35
			Southern flounder	<i>Paralichthys lethostigma</i>		4.60				3.18
			Southern kingfish	<i>Menticirrhus americanus</i>		1.15			20.00	1.59
			Atlantic spadefish	<i>Chaetodipterus faber</i>				2.50		0.74
			Crevalle jack	<i>Caranx hippos</i>		3.61				2.21
			Dolphins sp.	Family Coryphaenidae						
			Dolphin	<i>Coryphaena hippurus</i>		6.02		10.00		6.62
			Gray triggerfish	<i>Balistes capricus</i>		1.20				0.74
			Greater amberjack	<i>Seriola dumerili</i>				55.00		16.18
			Gulf kingfish	<i>Menticirrhus littoralis</i>		39.76		10.00		24.26
			Hardhead caffish	<i>Arius felis</i>						2.94
			Jacks sp.	Family Carangidae		1.20				0.74
			Little tunny	<i>Euthynnus alletteratus</i>						0.74
			Remora	<i>Remora remora</i>				5.00		1.47
			Sea basses sp.	Family Serranidae						
			Rock hind	<i>Epinephelus adscensionis</i>		1.20				0.74
			Warsaw grouper	<i>Epinephelus nigritus</i>		6.02				3.68
			Sharks sp.							
			Blacktip shark	<i>Carcharhinus limbatus</i>		2.41		17.50		6.62
			Bonnethead	<i>Sphyrna tiburo</i>		1.20				0.74
			Bull shark	<i>Carcharhinus leucas</i>						0.74
			Smalltail shark	<i>Carcharhinus porosus</i>		3.61				2.21

Table H.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
			Sheepshead	<u>Archosargus probatocephalus</u>		25.30			15.44
			Silver seatrout	<u>Cynoscion nothus</u>	84.62				8.09
			Snappers sp.	Family Lutjanidae					
			Lane snapper	<u>Lutjanus synagris</u>		2.41			1.47
			Southern flounder	<u>Paralichthys lethostigma</u>		1.20			0.74
			Southern kingfish	<u>Menticirrhus americanus</u>		4.82			2.94
			Black drum	<u>Pogonias cromis</u>		58.30			48.80
			Pigfish	<u>Orthopristis chrysoptera</u>		2.80			2.30
			Sheepshead	<u>Archosargus probatocephalus</u>		38.90	100.00		48.80
			Black drum	<u>Pogonias cromis</u>		62.10			62.10
			Gulf kingfish	<u>Menticirrhus littoralis</u>		27.60			27.60
			Pinfish	<u>Lagodon rhomboides</u>		3.40			3.40
			Sheepshead	<u>Archosargus probatocephalus</u>		6.90			6.90

Table H.16. Percent composition of the annual residential origin of private-boat fishermen-trips in the TTS by area (1982-87).

Area Year ^a	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
1986-87	88	5	6	1
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
1986-87	48	15	37	1
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
1986-87	30	15	49	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
1986-87	53	25	18	4
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
1986-87	44	14	38	3

^a 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 (1982-1987).

Area Year ^a	Weekend			Weekday			Other states/ countries
	Adjacent coastal countries	Non- adjacent coastal countries	Non- coastal countries	Adjacent coastal countries	Non- adjacent coastal countries	Non- coastal countries	
Galveston							
1982-83	89	0	11	100	0	0	0
1983-84	100	0	0	50	0	0	50
1984-85	91	0	9	33	25	0	0
1985-86	94	0	6	100	0	0	0
1986-87	89	4	5	88	0	12	0
Matagorda							
1982-83	38	36	25	42	27	29	3
1983-84	38	13	46	37	13	45	5
1984-85	49	17	34	59	14	26	1
1985-86	44	26	29	42	19	32	6
1986-87	38	17	44	57	11	30	2
Corpus Christi							
1982-83	32	11	56	24	9	56	10
1983-84	26	22	50	16	21	56	7
1984-85	26	23	50	17	16	59	7
1985-86	32	13	52	18	12	67	4
1986-87	27	20	50	30	12	52	7
Lower Laguna Madre							
1982-83	87	8	5	38	22	38	3
1983-84	19	26	55	12	40	48	0
1984-85	77	9	12	51	15	28	7
1985-86	89	11	0	40	7	33	20
1986-87	50	29	21	71	0	0	29
Coastwide							
1982-83	42	18	40	28	12	50	9
1983-84	32	19	47	22	20	52	6
1984-85	41	19	39	29	15	48	8
1985-86	43	17	39	29	14	51	6
1986-87	44	16	38	42	11	43	5

^aPrior 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 (1982-1987). Blank = no fishermen interviewed.

Area Year ^a	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
Calveston								
1982-83								
1983-84								
1984-85								
1985-86	100	0	0	0	-	-	-	-
1986-87	78	22	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
1986-87	49	11	40	0	62	19	19	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				
1986-87	80	0	0	20	33	0	33	33
Lower Laguna Madre								
1982-83								
1983-84	0	100	0	0	100	0	0	0
1984-85	76	3	10	10	0	0	100	0
1985-86	0	0	100	0	57	10	5	27
1986-87	-	-	-	-	-	-	-	-
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
1986-87	61	11	23	4	58	16	21	5

^aprior 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 (1982-1987). 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	Weekend	Weekday	Annual
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	5.7
1986-87	3.2	2.8	2.2	6.3	6.8	6.3
Malagorda						
1982-83	3.1	2.9	2.3	6.4	6.3	6.5
1983-84	2.9	2.9	3.7	6.7	6.9	6.7
1984-85	3.2	2.6	3.4	7.1	6.7	6.9
1985-86	3.1	3.2	2.0	7.2	8.5	7.3
1986-87	3.2	2.6	3.6	6.5	6.1	6.3
Corpus Christi						
1982-83	3.1	2.8	2.0	5.8	5.7	5.7
1983-84	3.2	2.8	2.0	5.9	5.7	5.8
1984-85	3.1	2.9	2.0	5.3	5.3	5.3
1985-86	2.9	2.7	2.6	5.8	5.6	5.7
1986-87	2.7	2.8	2.5	6.0	5.6	5.7
Lower Laguna Madre						
1982-83	3.0	3.2	3.0	6.2	7.9	7.4
1983-84	3.0	2.8	3.0	6.2	4.8	5.8
1984-85	3.0	2.5	3.0	5.6	3.9	5.1
1985-86	3.1	2.7	2.0	9.7	4.6	7.3
1986-87	3.0	2.3	2.9	7.0	2.7	6.3
Coastwide						
1982-83	3.1	2.8	2.4	6.1	5.9	6.2
1983-84	3.1	2.9	3.6	6.1	6.0	6.1
1984-85	3.2	2.8	3.2	6.1	5.5	5.9
1985-86	3.0	2.9	2.1	6.5	6.5	6.4
1986-87	3.0	2.7	3.0	6.2	5.8	6.0

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 (1983-1987). WE = weekend days. WD = weekdays.

Year	Season	Day type	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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.1. (Cont'd.)

Year Season Day type	Area					Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1986-87						
High use						
WE	31 (0)	41 (0)	49 (23)	31 (0)	152 (23)	
WD	66 (0)	88 (0)	102 (9)	66 (0)	322 (9)	
Low use						
WE	12 (0)	21 (0)	22 (0)	12 (2)	67 (2)	
WD	24 (0)	42 (0)	40 (0)	24 (0)	130 (0)	
Annual	133 (0)	192 (0)	213 (32)	133 (2)	671 (34)	

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 (1983-1987).

Area Year	High-use season		Low-use season		Annual ^a
	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
1986-87	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
1986-87	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
1986-87	6.0 \pm 6.0	1.3 \pm 0.9	0.0	0.0	7.2 \pm 6.0
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
1986-87	0.0	0.0	0.4 \pm 0.4	0.0	0.4 \pm 0.4
Coastwide ^a					
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
1986-87	6.0 \pm 6.0	1.3 \pm 0.9	0.4 \pm 0.4	0.0	7.6 \pm 6.0

^aDue 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 (1983-1987).

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Atlantic croaker						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	0.0
1984-85	0.0	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	0.3 \pm 0.2
1986-87	0.0	0.0	0.3 \pm 0.2	0.0	0.3 \pm 0.2	0.3 \pm 0.2
Gobia						
1983-84	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1	<.1 \pm <.1
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	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	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	2.7 \pm 1.1
1986-87	0.0	0.0	0.7 \pm 0.7	0.0	0.7 \pm 0.7	0.7 \pm 0.7
Red drum						
1983-84	0.0	0.3 \pm 0.3	0.0	0.0	0.3 \pm 0.3	0.3 \pm 0.3
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	7.3 \pm 6.2
1984-85	0.0	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	0.7 \pm 0.5
1986-87	0.0	0.0	0.0	0.0	0.0	0.0

Table I.3. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Sand seatrout						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
1983-84	0.0	0.0	0.4 ± 0.4	0.0	0.4 ± 0.4	0.4 ± 0.4
1984-85	0.0	0.0	0.0	<.1	<.1	<.1
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0
Spotted seatrout						
1983-84	0.0	0.9 ± 0.6	0.0	0.0	0.0	0.9 ± 0.6
1984-85	0.0	0.3 ± 0.3	0.0	0.0	0.0	0.3 ± 0.3
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0
Vermilion snapper						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	2.1
1984-85	0.0	0.0	0.3 ± 0.2	0.9 ± 0.8	1.1 ± 0.8	1.1 ± 0.8
1985-86	0.0	0.0	0.8 ± 0.4	1.1 ± 0.8	1.9 ± 0.9	1.9 ± 0.9
1986-87	0.0	0.0	0.4	0.6 ± 0.6	0.9 ± 0.6	0.9 ± 0.6
All species combined^a						
1983-84	0.0	2.5 ± 2.0	9.5 ± 6.4	8.7 ± 7.1	20.7 ± 9.7	20.7 ± 9.7
1984-85	0.0	0.4 ± 0.3	1.1 ± 0.6	1.4 ± 1.3	2.9 ± 1.5	2.9 ± 1.5
1985-86	0.0	0.0	3.6 ± 1.6	2.1 ± 1.0	5.6 ± 1.9	5.6 ± 1.9
1986-87	0.0	0.0	1.4 ± 1.2	0.6 ± 0.6	1.9 ± 1.4	1.9 ± 1.4

^aDue 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 (1983-1986).

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Atlantic croaker							
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
1986	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							
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	<.1 \pm <.1	0.0	0.1 \pm 0.1	0.1 \pm 0.1
	Weekday	0.0	0.0	0.3 \pm 0.2	0.0	0.3 \pm 0.2	0.3 \pm 0.2
1986	Weekend	0.0	0.0	0.2 \pm 0.2	0.0	0.2 \pm 0.2	0.2 \pm 0.2
	Weekday	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1	<0.1 \pm <0.1
Cobia							
1983	Weekend	0.0	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1	<.1 \pm <.1
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

Table I.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Cobia (Cont'd.)							
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
1986	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
King mackerel							
1983	Weekend	0.0	0.0	3.9 ± 3.9	0.5 ± 0.5	4.4 ± 3.9	
	Weekday	0.0	0.0	4.7 ± 4.2	0.4 ± 0.3	5.1 ± 4.2	
1984	Weekend	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1	
	Weekday	0.0	<.1 ± <.1	0.8 ± 0.5	<.1 ± <.1	0.8 ± 0.5	
1985	Weekend	0.0	0.0	1.0 ± 0.7	<.1 ± <.1	1.0 ± 0.7	
	Weekday	0.0	0.0	1.4 ± 0.9	0.2 ± 0.2	1.7 ± 0.9	
1986	Weekend	0.0	0.0	0.7 ± 0.7	0.0	0.7 ± 0.7	
	Weekday	0.0	0.0	<.1 ± <.1	0.0	<0.1 ± <0.1	
Red drum							
1983	Weekend	0.0	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	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
1986	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 I.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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	
	1986						
	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						
	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	
	1986						
	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	

Table I.4. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Laguna Madre	Lower	
Day type						
Spanish mackerel (Cont'd.)						
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
1986						
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
Spotted seatrout						
1983						
Weekend	0.0	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
Weekday	0.0	0.9 ± 0.6	0.0	0.0	0.0	0.9 ± 0.6
1984						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.3 ± 0.3	0.0	0.0	0.0	0.3 ± 0.3
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
1986						
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
Vermilion snapper						
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
1986						
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 I.4. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Laguna Madre	Lower	
Other species							
1983	Weekend	0.0	0.1	0.4 ± 0.4	0.4 ± 0.3	0.4 ± 0.3	0.9 ± 0.5
	Weekday	0.0	1.1	0.0	0.1 ± 0.1	0.1 ± 0.1	1.2
1984	Weekend	0.0	0.0	0.2 ± 0.2	0.0	0.0	0.2 ± 0.2
	Weekday	0.0	0.0	0.1 ± 0.1	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	0.8 ± 0.8	1.1 ± 0.8
	Weekday	0.0	0.0	0.5 ± 0.3	0.3 ± 0.2	0.3 ± 0.2	0.8 ± 0.4
1986	Weekend	0.0	0.0	0.3 ± 0.3	0.0	0.0	0.3 ± 0.3
	Weekday	0.0	0.0	<.1 ± <.1	0.0	0.0	<0.1 ± <0.1
All species combined ^a							
1983	Weekend	0.0	0.1 ± 0.1	4.4 ± 4.4	7.8 ± 7.0	7.8 ± 7.0	12.3 ± 8.3
	Weekday	0.0	2.4 ± 2.1	5.1 ± 4.6	0.9 ± 0.5	0.9 ± 0.5	8.5 ± 5.1
1984	Weekend	0.0	0.0	0.2 ± 0.2	0.0	0.0	0.2 ± 0.2
	Weekday	0.0	0.4 ± 0.3	0.9 ± 0.5	0.1 ± 0.1	0.1 ± 0.1	1.3 ± 0.6
1985	Weekend	0.0	0.0	1.4 ± 0.9	1.1 ± 0.8	1.1 ± 0.8	2.4 ± 1.2
	Weekday	0.0	0.0	2.2 ± 1.4	1.0 ± 0.6	1.0 ± 0.6	3.2 ± 1.5
1986	Weekend	0.0	0.0	1.2 ± 1.2	0.0	0.0	1.2 ± 1.2
	Weekday	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1

^aDue 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 (1983-1987).

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	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
1986-87	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

Table I.5. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)						
1985-86	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1986-87	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 ± 0.5	0.5 ± 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
1986-87						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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
1986-87						
	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 ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Red snapper						
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
1986-87						
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
Sand seatrout						
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
1986-87						
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						
1983-84						
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

Table I.5. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)						
1985-86	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1986-87	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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
1986-87	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
1986-87	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 ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Other species						
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	0.8 ± 0.8	0.8 ± 0.8	0.8 ± 0.8
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
1986-87						
Weekend	0.0	0.0	0.0	0.6 ± 0.6	0.6 ± 0.6	0.6 ± 0.6
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
All species combined ^a						
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	1.3 ± 1.3	1.3 ± 1.3	1.3 ± 1.3
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
1986-87						
Weekend	0.0	0.0	0.0	0.6 ± 0.6	0.6 ± 0.6	0.6 ± 0.6
Weekday	0.0	0.0	0.0	0.0	0.0	0.0

^aDue 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 (1983-1987). Blank = no fishermen interviewed.

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Atlantic croaker						
1983-84	0.00	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
1986-87			0.00	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	0.00
1985-86			0.02 \pm 0.02	0.00	0.02 \pm 0.01	0.02 \pm 0.01
1986-87			0.04 \pm 0.03	0.00	0.03 \pm 0.03	0.03 \pm 0.03
Cobia						
1983-84	0.00	0.00	< .01 \pm < .01	0.00	< .01 \pm < .01	< .01 \pm < .01
1984-85		0.00	0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00	0.00
1986-87			0.00	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	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	0.08 \pm 0.06
1985-86			0.18 \pm 0.10	0.05 \pm 0.04	0.14 \pm 0.07	0.14 \pm 0.07
1986-87			0.10 \pm 0.10	0.00	0.10 \pm 0.10	0.10 \pm 0.10
Red drum						
1983-84	0.00	0.09 \pm 0.09	0.00	0.00	0.01 \pm 0.01	0.01 \pm 0.01
1984-85		0.00	0.00	0.00	0.00	0.00
1985-86			0.00	0.00	0.00	0.00
1986-87			0.00	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	0.16 \pm 0.14
1984-85		0.00	0.00	0.00	0.00	0.00
1985-86			0.00	0.14 \pm 0.11	0.04 \pm 0.03	0.04 \pm 0.03
1986-87			0.00	0.00	0.00	0.00

Table I.6. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87			0.00	0.00	0.00
Spanish mackerel					
1983-84	0.00	0.00	0.02 ± 0.02	0.00	0.01 ± 0.01
1984-85		0.00	0.00	<.01 ± <.01	<.01 ± <.01
1985-86			0.00	0.00	0.00
1986-87			0.00	0.00	0.00
Spotted seatrout					
1983-84	0.00	0.25 ± 0.24	0.00	0.00	0.02 ± 0.01
1984-85		1.59 ± 1.59	0.00	0.00	0.02 ± 0.02
1985-86			0.00	0.00	0.00
1986-87			0.00	0.00	0.00
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
1986-87			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
1986-87			0.05	1.50 ± 1.50	0.12 ± 0.10
All species combined ^a	0.00				
1983-84		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
1986-87			0.19 ± 0.18	1.50 ± 1.50	0.25 ± 0.23

^aDue 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 (1983-1986). Blank = no fishermen interviewed.

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
	Weekday		0.00	0.00	0.00	0.00
1985						
	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
1986						
	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	0.00	0.00
	Weekday			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
1986						
	Weekend			0.04 \pm 0.04	0.00	0.04 \pm 0.04
	Weekday			0.03 \pm 0.03	0.00	0.03 \pm 0.03
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	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00

Table I.7. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Cobia (Cont'd.)							
1985	Weekend			0.00		0.00	0.00
	Weekday			0.00		0.00	0.00
1986	Weekend			0.00		0.00	0.00
	Weekday			0.00		0.00	0.00
King mackerel							
1983	Weekend	0.00	0.00	0.34 ± 0.34	0.11 ± 0.11		0.24 ± 0.22
	Weekday		0.00	0.34 ± 0.33	0.04 ± 0.04		0.18 ± 0.16
1984	Weekend			0.02 ± 0.02			0.02 ± 0.02
	Weekday		0.02 ± 0.02	0.10 ± 0.09	0.03 ± 0.03		0.09 ± 0.08
1985	Weekend			0.17 ± 0.14			0.15 ± 0.12
	Weekday			0.19 ± 0.13			0.14 ± 0.09
1986	Weekend			0.12 ± 0.12			0.12 ± 0.12
	Weekday			0.01 ± 0.01			0.01 ± 0.01
Red drum							
1983	Weekend	0.00	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
	Weekday			0.00			0.00
1986	Weekend			0.00			0.00
	Weekday			0.00			0.00

Table I.7. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
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	
1986						
Weekend			0.00		0.00	
Weekday			0.00		0.00	
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	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	
1986						
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	0.00	0.03 ± 0.03	<.01 ±	<.01
Weekday						

Table I.7. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)						
1985	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
1986	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
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	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
1986	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	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
1986	Weekend			0.00	0.00	0.00
	Weekday			0.00	0.00	0.00

Table I.7. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
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	0.06 ± 0.06	
Weekday		0.00	0.01 ± 0.01		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	
1986						
Weekend			0.05 ± 0.05		0.05 ± 0.05	
Weekday			0.04 ± 0.03		0.04 ± 0.03	
All species combined ^a						
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	
1986						
Weekend			0.21 ± 0.21		0.21 ± 0.21	
Weekday			0.08 ± 0.07		0.08 ± 0.07	

^aDue 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 (1983-1987). Blank = no fishermen interviewed.

Species	Year	Day type	Area				Coastwide ^a
			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					
	1986-87	Weekend			0.00		0.00
		Weekday					
Atlantic sharpnose shark							
	1983-84	Weekend					
		Weekday					
	1984-85	Weekend			0.00		0.00
		Weekday					
	1985-86	Weekend					
		Weekday					
	1986-87	Weekend			0.00		0.00
		Weekday					
Cobia							
	1983-84	Weekend					
		Weekday					
	1984-85	Weekend			0.00		0.00
		Weekday					

Table I.8. (Cont'd.)

Species Year Day type	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)					
1985-86 Weekend					
Weekday					
1986-87 Weekend				0.00	0.00
Weekday					
King mackerel					
1983-84 Weekend					
Weekday					
1984-85 Weekend					
Weekday				0.11 ± 0.11	0.11 ± 0.11
1985-86 Weekend					
Weekday					
1986-87 Weekend				0.00	0.00
Weekday					
Red drum					
1983-84 Weekend					
Weekday					
1984-85 Weekend					
Weekday				0.00	0.00
1985-86 Weekend					
Weekday					
1986-87 Weekend				0.00	0.00
Weekday					

Table I.8. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper					
1983-84					
Weekend					
Weekday					
1984-85				0.00	0.00
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend				0.00	0.00
Weekday					
Sand seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend				0.00	0.00
Weekday					
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					

Table I.8. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)						
1985-86	Weekend					
	Weekday				0.00	0.00
1986-87	Weekend					
	Weekday					
Spotted seatrout						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday				0.00	0.00
1985-86	Weekend					
	Weekday					
1986-87	Weekend				0.00	0.00
	Weekday					
Vermilion snapper						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday				0.00	0.00
1985-86	Weekend					
	Weekday					
1986-87	Weekend				0.00	0.00
	Weekday					

Table I.8. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Other species					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.18 ± 0.18	0.18 ± 0.18
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend				1.50 ± 1.50	1.50 ± 1.50
Weekday					
All species combined ^a					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.30 ± 0.30	0.30 ± 0.30
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend				1.50 ± 1.50	1.50 ± 1.50
Weekday					

^aDue 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 EEZ combined) off Texas during June-August by species and area (1979-1986)^a. Number in parenthesis indicates number of interviews. ND = no data.

Area Year	King mackerel	Red snapper	Spanish mackerel	Cobia	Atlantic ^b		All species combined
					sharpnose shark	Other	
Galveston							
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
1986 (3)	0.10 \pm 0.10	0.00	0.01 \pm 0.01	0.00	<.01 \pm <.01	0.06 \pm 0.06	0.17 \pm 0.17
Matagorda							
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)	ND	ND	ND	ND	ND	ND	ND
1986 (3)	0.05 \pm 0.05	0.00	0.00	0.01 \pm 0.01	0.00	0.08 \pm 0.08	0.14 \pm 0.13
Corpus Christi							
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
1986 (11)	0.11 \pm 0.08	0.00	0.00	0.00	0.02 \pm 0.02	0.15	0.28 \pm 0.21
Lower Laguna Madre							
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
1986 (12)	0.04 \pm 0.04	0.07 \pm 0.07	0.00	0.00	0.00	0.29 \pm 0.21	0.40 \pm 0.26

Table I.9. (Cont'd.)

Area Year	King mackerel	Red snapper	Spanish mackerel	Cobia	Atlantic ^b sharpnose shark	Other	All species combined
Coastwide							
1979 (16) ^c	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) ^d	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) ^e	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
1986 (29)	0.08 ± 0.05	0.02 ± 0.02	<.01 ± <.01	0.00	0.01 ± 0.01	0.17	0.28 ± 0.15

^a1979-1982 data from McEachron (1984).

^bIncludes all species of shark retained during 1979-82.

^cGalveston/Freeport and Aransas/Corpus Christi/upper Laguna Madre only.

^dGalveston/Freeport, Aransas/Corpus Christi/upper Laguna Madre and lower Laguna Madre only.

^eMatagorda/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 (1983-1987). 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					
1986-87					
Atlantic sharpnose shark					
1983-84					
1984-85					
1985-86			5.69 \pm 0.57		5.69 \pm 0.57
1986-87			5.97		5.97
Cobia					
1983-84			19.50		19.50
1984-85					
1985-86					
1986-87					
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
1986-87			9.08 \pm 0.13		9.08
Red drum					
1983-84		2.97			2.97
1984-85					
1985-86					
1986-87					
Red snapper					
1983-84			0.31 \pm 0.01		0.31 \pm 0.01
1984-85					
1985-86				1.00	1.00
1986-87					

Table I.10. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Sand seatrout					
1983-84					
1984-85					
1985-86					
1986-87					
Spanish mackerel			1.55		1.55
1983-84					
1984-85					
1985-86					
1986-87					
Spotted seatrout					
1983-84		0.95 ± 0.03			0.95 ± 0.03
1984-85		1.56			1.56
1985-86					
1986-87					
Vermilion snapper					
1983-84					
1984-85					
1985-86					
1986-87					
All species combined ^a					
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
1986-87			8.20 ± 0.01		8.20

^aIncludes "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 (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Day type	Area			
		Galveston	Matagorda	Corpus Christi Lower Laguna Madre	Coastwide
Atlantic croaker					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
Atlantic sharpnose shark					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
				5.66	5.66
				5.70 \pm 0.98	5.70 \pm 0.98
				5.97	5.97
Cobia					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
				19.50	19.50

Table I.11. (Cont'd.)

Species Year	Area			
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Cobia (Cont'd.)				
1985				
Weekend				
Weekday				
1986				
Weekend				
Weekday				
King mackerel				
1983				
Weekend			8.30	7.49
Weekday			10.09 ± 1.32	9.39 ± 0.51
1984				
Weekend				8.17
Weekday				10.02 ± 1.24
1985				
Weekend			5.46 ± 0.28	5.46 ± 0.28
Weekday				
1986				
Weekend			6.18	6.18
Weekday			8.60 ± 0.46	10.49
1986				
Weekend			9.15	9.15
Weekday			8.25	8.25
Red drum				
1983				
Weekend				
Weekday				
1984				
Weekend				
Weekday				
1985				
Weekend				
Weekday				
1986				
Weekend				
Weekday				
		2.97		2.97

Table I.11. (Cont'd.)

Species Year	Day type	Area			Coastwide
		Galveston	Matagorda	Corpus Christi Laguna Madre Lower	
Red snapper					
1983	Weekend			0.31	0.31
	Weekday			0.32	0.32
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend			1.00	1.00
	Weekday				
Sand seatrout					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
Spanish mackerel					
1983	Weekend				
	Weekday			1.55	1.55
1984	Weekend				
	Weekday				

Table I.11. (Cont'd.)

Species Year	Day type	Area			Coastwide
		Galveston	Matagorda	Corpus Christi Lower Laguna Madre	
Spanish mackerel (Cont'd.)					
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
Spotted seatrout					
1983	Weekend		0.97		0.97
	Weekday		0.95 ± 0.03		0.95 ± 0.03
1984	Weekend				
	Weekday				
1985	Weekend		1.56		1.56
	Weekday				
1986	Weekend				
	Weekday				
Vermilion snapper					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				

Table I.11. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
All species combined ^a					
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		1.50	5.43 ± 0.25		4.29 ± 0.61
Weekday					
1985					
Weekend			5.70		5.70
Weekday			8.00 ± 0.52	1.60	6.01 ± 0.86
1986					
Weekend			8.20 ± 8.20		8.20 ± 8.20
Weekday			8.20 ± 8.20		8.20 ± 8.20

^aIncludes "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 (1983-1987). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Day type					Coastwide
Atlantic croaker					
1983-84	Weekend				
	Weekday				
1984-85	Weekend				
	Weekday				
1985-86	Weekend				
	Weekday				
1986-87	Weekend				
	Weekday				
Atlantic sharpnose shark					
1983-84	Weekend				
	Weekday				
1984-85	Weekend				
	Weekday				
1985-86	Weekend				
	Weekday				
1986-87	Weekend				
	Weekday				
Cobia					
1983-84	Weekend				
	Weekday				
1984-85	Weekend				
	Weekday				

Table I.12. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)						
1985-86	Weekend					
	Weekday					
1986-87	Weekend					
	Weekday					
King mackerel						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday					
1985-86	Weekend					
	Weekday					
1986-87	Weekend					
	Weekday					
				6.50		6.50
Red drum						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday					
1985-86	Weekend					
	Weekday					
1986-87	Weekend					
	Weekday					

Table I.12. (Cont'd.)

Species Year	Area				
	Day type	Galveston	Matagorda	Corpus Christi Lower Laguna Madre	Coastwide
Red snapper					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					
Sand seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					

Table I.12. (Cont'd.)

Species Year Day type	Area			Coastwide
	Galveston	Matagorda	Lower Laguna Madre	
Spanish mackerel (Cont'd.)				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				
Vermilion snapper				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				

Table I.12. (Cont'd.)

Species Year	Area			
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Day type				Coastwide
All species combined ^a				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend			6.50	6.50
Weekday				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				

^aIncludes "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 (1983-1987). 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					
1984-85					
1985-86					
1986-87					
Atlantic sharpnose shark					
1983-84					
1984-85					
1985-86			925 \pm 39		925 \pm 38
1986-87			936		936
Cobia					
1983-84					
1984-85					
1985-86					
1986-87			1292		1292
King mackerel					
1983-84					
1984-85					
1985-86					
1986-87					
Red drum					
1983-84					
1984-85					
1985-86					
1986-87		651			651
Red snapper					
1983-84					
1984-85					
1985-86					
1986-87					
			287 \pm 4		287 \pm 4
			392		392

Table I.13. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Sand seatrout					
1983-84					
1984-85					
1985-86					
1986-87					
Spanish mackerel			674		674
1983-84					
1984-85					
1985-86					
1986-87					
Spotted seatrout					
1983-84		464 ± 5			464 ± 5
1984-85		547			547
1985-86					
1986-87					
Vermilion snapper					
1983-84					
1984-85					
1985-86					
1986-87					
All species combined ^a					
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
1986-87			806 ± 83	754	791 ± 22

^aIncludes "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 (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi Laguna Madre Lower	Coastwide
Atlantic croaker						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
	1986					
		Weekend				
		Weekday				
Atlantic sharpnose shark						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend		935	935	
		Weekday		921 \pm 68	921 \pm 68	
	1986					
		Weekend		936	936	
		Weekday				
Cobia						
	1983					
		Weekend				
		Weekday		1292		1292
	1984					
		Weekend				
		Weekday				

Table I.14. (Cont'd.)

Species Year	Day Type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)						
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					
King mackerel						
1983	Weekend			963	935	959 ± 855
	Weekday			1015 ± 45	1001 ± 18	1014 ± 39
1984	Weekend					
	Weekday			840 ± 11		840 ± 11
1985	Weekend			881		881
	Weekday			975 ± 19	1045	985 ± 170
1986	Weekend			990		990
	Weekday			967		967
Red drum						
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday		651			651
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					

Table I.14. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper						
1983	Weekend				283	283
	Weekday				291	291
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend				392	392
	Weekday					
Sand seatrout						
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					
Spanish mackerel						
1983	Weekend					
	Weekday				674	674
1984	Weekend					
	Weekday					

Table I.14. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)					
1985					
Weekend					
Weekday					
1986					
Weekend					
Weekday					
Spotted seatrout					
1983					
Weekend		468			468
Weekday		464 ±	6		464 ± 6
1984					
Weekend					
Weekday					
1985					
Weekend		547			547
Weekday					
1986					
Weekend					
Weekday					
Vermilion snapper					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend					
Weekday					
1986					
Weekend					
Weekday					

Table I.14. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a					
1983					
Weekend		523 ± 98	930 ± 330	431	610 ± 373
Weekday		460 ± 9	1001 ± 78	658 ± 30	809 ± 48
1984			1086		1086
Weekend			849 ± 10		762 ± 97
Weekday		547			
1985					
Weekend			642 ± 162		642 ± 162
Weekday			930 ± 230	475 ± 60	789 ± 34
1986					
Weekend			853		853
Weekday			427		427

^aIncludes "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 (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi Laguna Madre Lower	Coastwide
Atlantic croaker	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				
	1985-86	Weekend				
		Weekday				
	1986-87	Weekend				
		Weekday				
Atlantic sharpnose shark	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				
	1985-86	Weekend				
		Weekday				
	1986-87	Weekend				
		Weekday				
Cobia	1983-84	Weekend				
		Weekday				
	1984-85	Weekend				
		Weekday				

Table I.15. (Cont'd.)

Species Year Day type	Area			Coastwide
	Galveston	Matagorda	Corpus Christi Lower Laguna Madre	
Cobia (Cont'd.)				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				
King mackerel				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday			896	896
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				
Red drum				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday				
1985-86				
Weekend				
Weekday				
1986-87				
Weekend				
Weekday				

Table I.15. (Cont'd.)

Species Year	Day type	Area		
		Galveston	Matagorda	Corpus Christi Laguna Madre Lower
Red snapper				
1983-84	Weekend			
	Weekday			
1984-85	Weekend			
	Weekday			
1985-86	Weekend			
	Weekday			
1986-87	Weekend			
	Weekday			
Sand seatrout				
1983-84	Weekend			
	Weekday			
1984-85	Weekend			
	Weekday			
1985-86	Weekend			
	Weekday			
1986-87	Weekend			
	Weekday			
Spanish mackerel				
1983-84	Weekend			
	Weekday			
1984-85	Weekend			
	Weekday			

Table I.15. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)						
1985-86	Weekend					
	Weekday					
1986-87	Weekend					
	Weekday					
Spotted seatrout						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday					
1985-86	Weekend					
	Weekday					
1986-87	Weekend					
	Weekday					
Vermilion snapper						
1983-84	Weekend					
	Weekday					
1984-85	Weekend					
	Weekday					
1985-86	Weekend					
	Weekday					
1986-87	Weekend					
	Weekday					

Table I.15. (Cont'd.)

Species Year	Area			
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
All species combined ^a				
1983-84				
Weekend				
Weekday				
1984-85			782	
Weekend				
Weekday				782
1985-86				
Weekend				
Weekday				
1986-87				
Weekend			754	
Weekday				754

^aIncludes "other" species.

Table 1.16. Percent composition of "other" species caught by party-boat fishermen in the TTS by area, season and day type (1983-1987).

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>				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	<u>Euthynnus alletteratus</u>			50.00		15.79	
	Sharks sp. Blacktip shark Requiem sharks	<u>Carcharhinus limbatus</u> Family Carcharhinidae		100.00	33.33		21.05 10.53	
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	<u>Euthynnus alletteratus</u>			42.86		42.86	
	Sharks sp. Blacktip shark	<u>Carcharhinus limbatus</u>			14.29		14.29	
	Crevalle jack	<u>Caranx hippos</u>			28.57	100.00	22.22	
Weekday	Little tunny	<u>Euthynnus alletteratus</u>					22.22	
	Sharks sp. Blacktip shark	<u>Carcharhinus limbatus</u>			71.43		55.56	
Low use Weekend	Crevalle jack	<u>Caranx hippos</u>				20.00	20.00	
	Little tunny	<u>Euthynnus alletteratus</u>				80.00	80.00	
1985-86 High use Weekend	Blue runner	<u>Caranx crysos</u>				36.36	26.67	
	Dolphins sp. Dolphin	Family Coryphaenidae <u>Coryphaena hippurus</u>			50.00		13.33	
	Little tunny	<u>Euthynnus alletteratus</u>			50.00	63.64	60.00	

Table 1.16. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area							
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide			
1986-87	High use Weekend	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>								
			Little funny	<u>Coryphaena hippurus</u>			47.37	8.33		32.26		
			Sea basses sp.	<u>Euthynnus alletteratus</u>				66.67		25.81		
			Scamp	Family <u>Serranidae</u>								
			Sharks sp.	<u>Mycteroperca bonaci</u>				8.33		3.23		
			Requiem sharks	Family <u>Carcharhinidae</u>			5.26			3.23		
			Weekend	Low use	Weekday	Atlantic spadefish	<u>Chaetodipterus faber</u>			10.00		10.00
						Dolphin	<u>Coryphaena hippurus</u>			50.00		50.00
						Hardhead catfish	<u>Arius felis</u>			10.00		10.00
Little tunny	<u>Euthynnus alletteratus</u>						30.00		30.00			
Weekend	Low use	Weekday	Atlantic bonita	<u>Sarda sarda</u>			25.00		25.00			
			Atlantic spadefish	<u>Chaetodipterus faber</u>			75.00		75.00			
Weekend	Low use	Weekday	Crevalle jack	<u>Caranx hippos</u>				20.00	20.00			
			Little tunny	<u>Euthynnus alletteratus</u>				80.00	80.00			

Table I.17. Percent composition of the annual residential origin of party-boat fishermen-trips in the TTS by area (1983-87). 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				
1986-87				
Matagorda				
1983-84	31	0	69	0
1984-85	100	0	0	0
1985-86				
1986-87				
Corpus Christi				
1983-84	0	6	84	10
1984-85	8	8	56	28
1985-86	0	20	76	4
1986-87	0	3	75	22
Lower Laguna Madre				
1983-84	15	15	42	27
1984-85	19	0	31	50
1985-86	46	4	36	14
1986-87	0	0	100	0
Coastwide				
1983-84	14	8	64	14
1984-85	22	5	43	30
1985-86	16	14	62	8
1986-87	0	3	76	21

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 (1983-1986). Blank = no fishermen interviewed.

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-coastal counties	Other states/countries	Adjacent coastal counties	Non-coastal counties	Other states/countries
Galveston						
1983	100	0	0			
1984				40	60	0
1985				100	0	0
1986						
Matagorda						
1983	0	100	0			
1984						
1985						
1986						
Corpus Christi						
1983	0	11	89	0	75	25
1984	5	16	79	10	35	55
1985	0	14	86	0	73	5
1986	0	4	74	0	78	22
Lower Laguna Madre						
1983	9	36	55	20	33	47
1984				20	0	80
1985	29	14	57	52	29	19
1986						
Coastwide						
1983	9	17	74	19	54	27
1984	5	16	79	32	18	50
1985	10	14	76	19	57	10
1986	8	0	77	25	69	6

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 (1983-1987). Blank = no fishermen interviewed.

Area 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
Galveston								
1983-84								
1984-85								
1985-86								
1986-87								
Matagorda								
1983-84								
1984-85								
1985-86								
1986-87								
Corpus Christi								
1983-84								
1984-85								
1985-86								
1986-87	0	4	74	22	0	0	78	22
Lower Laguna Madre								
1983-84								
1984-85	17	0	83	0				
1985-86								
1986-87	0	0	100	0				
Coastwide								
1983-84								
1984-85	17	0	83	0				
1985-86								
1986-87	0	4	76	20	0	0	78	22

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 (1983-1987). 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									
1983-84	2.0				2.0	7.0			7.0
1984-85									
1985-86									
1986-87									
Matagorda									
1983-84	3.0	3.3			3.2	5.0	4.5		4.6
1984-85		4.0			4.0		3.0		3.0
1985-86									
1986-87									
Corpus Christi									
1983-84	3.8	3.0			3.4	8.0	7.5		7.8
1984-85	4.8	4.0			4.3	5.8	7.5		6.7
1985-86	4.7	4.1			4.2	8.5	6.9		7.3
1986-87	4.6	3.0			4.0	8.5	6.3		7.7
Lower Laguna Madre									
1983-84	3.7	3.8			3.7	7.3	6.2		6.7
1984-85		5.0	6.0		5.3		2.8	4.5	3.3
1985-86	3.5	4.2			4.0	5.5	6.0		5.9
1986-87			2.0		2.0			5.0	5.0
Coastwide									
1983-84	3.5	3.4			3.4	7.4	6.2		6.8
1984-85	4.5	4.2	6.0		4.5	5.8	5.4	4.5	5.5
1985-86	4.2	4.1			4.2	7.3	6.6		6.8
1986-87	4.6	3.0	2.0		3.8	8.5	6.3	5.0	7.4

Appendix J: Estimates for private-boat fishing in the Exclusive Economic Zone (EEZ) off Texas.

Table J.1. Number of days surveyed and number of private-boat fishermen interviewed () in the EEZ by season, day type and area (1982-1987). WE = weekend days. WD = weekdays.

Year	Season	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
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)
1986-87							
	High use						
	WE		31 (251)	41 (153)	49 (177)	31 (35)	183 (619)
	WD		66 (95)	88 (121)	102 (135)	66 (15)	388 (366)
	Low use						
	WE		12 (23)	21 (17)	22 (5)	12 (9)	79 (54)
	WD		24 (0)	42 (20)	40 (0)	24 (6)	154 (26)
	Annual		133 (369)	192 (311)	213 (317)	133 (65)	804 (1065)

Table J.2. Pressure estimates (man-h x 1000) \pm 1 SE for private-boat fishermen in the EEZ by season, day type and area (1982-1987).

Area Year	High-use season		Low-use season		Annual ^a
	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
1986-87	58.2 \pm 23.0	34.5 \pm 21.7	6.0 \pm 4.9	0.0	98.6 \pm 32.0
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
1986-87	14.2 \pm 6.0	9.8 \pm 4.2	2.5 \pm 2.1	6.1 \pm 3.8	32.5 \pm 8.5
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
1986-87	26.5 \pm 14.3	12.5 \pm 4.7	0.4 \pm 0.4	0.0	39.4 \pm 15.1
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
1986-87	9.5 \pm 7.3	5.6 \pm 2.9	1.9 \pm 1.3	1.0 \pm 0.7	18.0 \pm 8.0
Coastwide^a					
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
1986-87	108.7 \pm 28.7	62.4 \pm 22.8	10.8 \pm 5.5	7.1 \pm 3.9	189.0 \pm 37.3

^aDue 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 EEZ by species and area (1982-1987).

Species Year	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
Atlantic croaker						
1982-83	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	
1986-87	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1	
Atlantic sharpnose shark						
1982-83 ^b						
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	
1986-87	0.2 \pm 0.1	0.1 \pm <.1	0.1 \pm <.1	0.1 \pm 0.1	0.5 \pm 0.2	
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	
1986-87	<.1 \pm <.1	0.7 \pm 0.6	0.1 \pm 0.1	0.0	0.8 \pm 0.6	
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	
1986-87	6.3 \pm 3.2	1.9 \pm 1.3	0.9 \pm 0.5	0.3 \pm 0.3	9.4 \pm 3.5	
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	
1986-87	<.1 \pm <.1	0.1 \pm 0.1	0.0	0.0	0.2 \pm 0.1	
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	
1986-87	4.3 \pm 3.3	5.7 \pm 2.5	2.2 \pm 1.5	4.7 \pm 4.3	16.9 \pm 6.2	
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	
1986-87	0.8 \pm 0.6	1.9 \pm 1.2	0.0	0.0	2.7 \pm 1.4	

Table J.3. (Cont'd.)

Species Year	Area									
	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
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
1986-87	2.6 ±	2.4	<.1 ±	<.1	<.1 ±	<.1		0.0	2.6 ±	2.4
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
1984-85		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
1986-87	1.2 ±	0.9	<.1 ±	<.1		0.0		0.0	1.2 ±	0.9
Vermilion snapper										
1982-83 ^b					<.1 ±	<.1		0.0	<.1 ±	<.1
1983-84		0.0		0.0	<.1 ±	<.1		0.0	<.1 ±	<.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
1986-87	<.1 ±	<.1		0.0		0.0		0.0	<.1 ±	<.1
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
1986-87	10.6 ±	6.4	5.0 ±	2.4	1.8 ±	1.0	0.7 ±	0.3	18.0 ±	6.9
All species combined ^a										
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
1986-87	26.0 ±	10.3	15.7 ±	5.8	5.0 ±	3.1	5.9 ±	4.4	52.6 ±	13.0

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 EEZ during the high-use season by species, day type and area (1982-1986).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986							
		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 ^b							
		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
1986							
		Weekend	0.1 \pm 0.1	<.1 \pm <.1	<.1 \pm <.1	0.1 \pm 0.1	0.3 \pm 0.2
		Weekday	<.1 \pm <.1	0.1 \pm 0.1	<.1 \pm <.1	0.0	0.1 \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
1986							
		Weekend	<.1 \pm <.1	<.1 \pm <.1	0.1 \pm 0.1	0.0	0.1 \pm 0.1
		Weekday	0.0	0.7 \pm 0.6	<.1 \pm <.1	0.0	0.7 \pm 0.6

Table J.4. (Cont'd.)

Species	Year	Day type	Area				Coastwide ^a
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
	1986						
		Weekend	2.4 ± 1.3	1.4 ± 1.3	0.6 ± 0.5	0.0	4.4 ± 2.0
		Weekday	3.9 ± 2.9	0.4 ± 0.2	0.3 ± 0.1	0.3 ± 0.3	5.0 ± 2.9
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
	1986						
		Weekend	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
		Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
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
	1986						
		Weekend	0.7 ± 0.5	1.9 ± 1.5	2.0 ± 1.5	0.4 ± 0.4	5.1 ± 2.2
		Weekday	0.3 ± 0.2	0.7 ± 0.4	0.2 ± 0.2	0.0	1.1 ± 0.4

Table J.4. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
	1986						
		Weekend	0.6 ± 0.6	<.1 ± <.1	0.0	0.0	0.6 ± 0.6
		Weekday	0.0	<.1 ± <.1	0.0	0.0	0.1 ± 0.1
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
	1986						
		Weekend	0.1 ± 0.1	<.1 ± <.1	0.0	0.0	0.1 ± 0.1
		Weekday	2.5 ± 2.4	0.0	<.1 ± <.1	0.0	2.5 ± 2.4
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
	1986						
		Weekend	1.2 ± 0.9	<.1 ± <.1	0.0	0.0	1.2 ± 0.9
		Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1

Table J.4. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Vermilion snapper						
	1982 ^b					
	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
	1986					
	Weekend	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
	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
	1986					
	Weekend	7.6 ± 6.2	1.5	1.4	0.3 ± 0.3	10.8
	Weekday	2.6 ± 1.7	0.5	0.4	0.2 ± 0.2	3.8
All species combined ^a						
	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
	1986					
	Weekend	12.8 ± 6.7	5.0 ± 2.2	4.1 ± 3.1	0.9 ± 0.5	22.7 ± 7.7
	Weekday	9.3 ± 6.9	2.5 ± 0.8	0.9 ± 0.3	0.6 ± 0.4	13.4 ± 7.0

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 EEZ during the low-use season by species, day type and area (1982-1987).

Species	Year	Area					
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
Day type							
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
	1986-87						
	Weekend	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1
	Weekday	0.0	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark							
	1982-83 ^b						
	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
	1986-87						
	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
	1986-87						
	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	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
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	
1986-87						
Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
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	
1986-87						
Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	
Weekday	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1	
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	
1986-87						
Weekend	3.3 ± 3.3	0.1 ± <.1	0.0	4.3 ± 4.3	7.7 ± 5.4	
Weekday	0.0	3.0 ± 2.0	0.0	0.0	3.0 ± 2.0	

Table J.5. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87							
		Weekend	0.2 ± 0.2	0.1 ± 0.1	0.0	0.0	0.3 ± 0.3
		Weekday	0.0	1.6 ± 1.2	0.0	0.0	1.6 ± 1.2
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
1986-87							
		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
1986-87							
		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	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year					
Day type					
Vermilion snapper					
1982-83 ^b					
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
1986-87					
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
1986-87					
Weekend	0.3 ± 0.3	0.6 ± 0.6	0.0	0.1 ± 0.1	1.0 ± 0.7
Weekday	0.0	2.5 ± 2.3	0.0	0.0	2.5 ± 2.3
All species combined ^a					
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
1986-87					
Weekend	3.9 ± 3.6	0.8 ± 0.7	0.0	4.4 ± 4.4	9.2 ± 5.7
Weekday	0.0	7.5 ± 5.3	0.0	0.0	7.4 ± 5.3

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 EEZ by species and area (1982-1987).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87	0.00	0.00	0.00	<.01 \pm <.01	0.00
Atlantic sharpnose shark					
1982-83 ^b					
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
1986-87	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm 0.01	<.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
1986-87	0.00	0.02 \pm 0.02	<.01 \pm <.01	0.00	<.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
1986-87	0.06 \pm 0.04	0.06 \pm 0.04	0.02 \pm 0.02	0.02 \pm 0.02	0.05 \pm 0.02
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
1986-87	0.00	<.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
1986-87	0.04 \pm 0.04	0.18 \pm 0.09	0.06 \pm 0.04	0.26 \pm 0.25	0.09 \pm 0.04
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
1986-87	0.01 \pm 0.01	0.06 \pm 0.04	0.00	0.00	0.01 \pm 0.01
Spanish mackerel					
1982-83	0.02 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01
1983-84	0.02 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
1984-85	0.02 \pm 0.02	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
1985-86	0.01 \pm 0.01	0.01 \pm 0.01	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01
1986-87	0.03 \pm 0.02	0.00	0.00	0.00	0.01 \pm 0.01

Table J.6. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	0.01 ± 0.01	<.01 ± <.01	0.00	0.00	0.01 ± <.01
Vermilion snapper					
1982-83 ^b					
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
1986-87	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
1986-87	0.11 ± 0.07	0.16	0.04 ± 0.03	0.04 ± 0.02	0.10
All species combined^a					
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
1986-87	0.26 ± 0.13	0.49 ± 0.22	0.13 ± 0.09	0.33 ± 0.26	0.28 ± 0.09

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 EEZ during the high-use season by species, day type and area (1982-1986).

Species	Year	Area				Coastwide ^a
		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
1986						
	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 ^b						
	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
1986						
	Weekend	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.02 \pm 0.02	<.01 \pm <.01
	Weekday	<.01 \pm <.01	0.01 \pm 0.01	<.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
1986						
	Weekend	0.00	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01
	Weekday	0.00	0.07 \pm 0.07	0.00	0.00	0.01 \pm 0.01

Table J.7. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
	1986						
		Weekend	0.04 ± 0.03	0.10 ± 0.10	0.02 ± 0.02	0.00	0.04 ± 0.02
		Weekday	0.11 ± 0.10	0.04 ± 0.02	0.02 ± 0.01	0.06 ± 0.06	0.08 ± 0.05
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
	1986						
		Weekend	<.01 ± <.01	0.00	0.00	0.00	0.00
		Weekday	0.00	<.01 ± <.01	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
	1986						
		Weekend	0.01 ± 0.01	0.14 ± 0.11	0.08 ± 0.06	0.04 ± 0.04	0.05 ± 0.02
		Weekday	0.01 ± 0.01	0.07 ± 0.05	0.02 ± 0.01	0.00	0.02 ± 0.01

Table J.7. (Cont'd.)

Species	Year	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
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
	1986					
	Weekend	0.01 ± 0.01	<.01 ± <.01	0.00	0.00	0.01 ± 0.01
	Weekday	0.00	0.01 ± 0.01	0.00	0.00	<.01 ± <.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
	1986					
	Weekend	<.01 ± <.01	0.00	0.00	0.00	<.01 ± <.01
	Weekday	0.07 ± 0.07	0.00	0.00	0.00	0.04 ± 0.04
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
	1986					
	Weekend	0.02 ± 0.02	<.01 ± <.01	0.00	0.00	0.01 ± 0.01
	Weekday	0.00	<.01 ± <.01	0.00	0.00	0.00

Table J.7. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Vermilion snapper					
1982 ^b					
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
1985					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00	0.00
1986					
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
1986					
Weekend	0.13 ± 0.11	0.10	0.05 ± 0.04	0.03 ± 0.03	0.10 ± 0.06
Weekday	0.08 ± 0.06	0.05	0.03	0.04 ± 0.03	0.06 ± 0.03
All species combined ^a					
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
1986					
Weekend	0.22 ± 0.14	0.35 ± 0.21	0.15 ± 0.13	0.09 ± 0.08	0.21 ± 0.09
Weekday	0.27 ± 0.23	0.25 ± 0.14	0.08 ± 0.04	1.06 ± 0.08	0.21 ± 0.13

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 EEZ during the low-use season by species, day type and area (1982-1987). Blank = no fishermen interviewed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87					
Weekend	<.01 \pm <.01	0.00	0.00	0.01 \pm 0.01	<.01 \pm <.01
Weekday	0.00	0.00	0.00	0.00	0.00
Atlantic sharpnose shark					
1982-83 ^b					
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
1986-87					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	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
1986-87					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00	0.00

Table J.8. (Cont'd.)

Species	Year	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
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
	1986-87					
	Weekend	0.00	0.01 ± 0.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	0.00	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
	1986-87					
	Weekend	0.00	0.01 ± 0.01	0.00	0.00	<.01 ± <.01
	Weekday	0.00	0.01 ± 0.01	0.00	0.00	0.01 ± 0.01
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
	1986-87					
	Weekend	0.55 ± 0.55	0.02 ± 0.02	0.00	2.25 ± 2.25	0.71 ± 0.56
	Weekday	0.00	0.50 ± 0.40	0.00	0.00	0.43 ± 0.33

Table J.8. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87					
Weekend	0.04 ± 0.04	0.05 ± 0.05	0.00	0.00	0.03 ± 0.03
Weekday	0.00	0.26 ± 0.23	0.00	0.00	0.23 ± 0.19
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
1986-87					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	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
1883-84					
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
1986-87					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00	0.00

Table J.8. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Vermilion snapper					
1982-83 ^b					
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
1986-87					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday					
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
1986-87					
Weekend	0.06 ± 0.06	0.26	0.00	0.04 ± 0.04	0.10
Weekday	0.00	0.46	0.00	0.00	0.37
All species combined^a					
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
1986-87					
Weekend	0.64 ± 0.63	0.34 ± 0.32	0.00	2.31 ± 2.30	0.85 ± 0.63
Weekday	0.00	1.26 ± 1.07	0.00	0.00	1.08 ± 0.88

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

^bThis 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 EEZ by species and area (1982-1987). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
1986-87	0.26			0.27	0.27
Atlantic sharpnose shark					
1982-83 ^b					
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
1986-87	5.09 \pm 0.06	5.72 \pm 1.89	5.74 \pm 0.74	7.69	6.11 \pm 2.88
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
1986-87	6.23	11.24 \pm 3.05	6.04 \pm 0.29		10.63 \pm 2.77
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
1986-87	8.30 \pm 0.64	10.87 \pm 0.74	8.18 \pm 0.61	6.84	8.76 \pm 0.88
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
1986-87	3.18	2.78 \pm 0.37			2.90 \pm 1.21
Red snapper					
1982-83	0.44 \pm 0.22	0.51 \pm 0.14	0.57 \pm 0.15	0.91 \pm 0.53	0.66 \pm 0.19
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
1986-87	0.43 \pm 0.04	0.64 \pm 0.11	0.56 \pm 0.11	0.92 \pm 0.13	0.65 \pm 0.10
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
1986-87	0.23 \pm 0.08	0.37 \pm 0.04			0.33 \pm 0.05

Table J.9. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	0.90 ± 0.16	1.96	1.27		0.91 ± 0.17
Spotted seatrout					
1982-83	1.05	0.29			0.40 ± 0.35
1983-84		0.60 ± 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
1986-87	1.24 ± 0.20	0.82 ± 0.02			1.23 ± 0.19
Vermilion snapper					
1982-83 ^b					
1983-84			0.24		0.24
1984-85			0.36		0.36
1985-86					
1986-87	0.19				0.19
All species combined ^a					
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
1986-87	4.73 ± 1.22	3.14 ± 0.61	3.35 ± 0.70	1.17 ± 0.51	3.73 ± 0.69

^aIncludes "other" species.

^bMean 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 EEZ during the high-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 ^a
Day type						
Atlantic croaker						
1982						
	Weekend			0.21		0.21
	Weekday					
1983						
	Weekend	0.17 \pm 0.01				0.17 \pm 0.01
	Weekday					
1984						
	Weekend		0.38 \pm 0.03	0.54		0.41 \pm 0.13
	Weekday		0.25			0.25
1985						
	Weekend		0.14			0.14
	Weekday					
1986						
	Weekend					
	Weekday					
Atlantic sharpnose shark						
1982 ^b						
	Weekend					
	Weekday					
1983						
	Weekend	5.39	5.76	5.15 \pm 0.35		5.37 \pm 3.78
	Weekday	5.06		5.70		5.16
1984						
	Weekend	6.42 \pm 0.12	2.74	6.41		6.04 \pm 0.55
	Weekday	6.48	5.33	9.17		6.68
1985						
	Weekend	6.18 \pm 6.18	5.47 \pm 0.48	6.18 \pm 0.39		6.12 \pm 1.76
	Weekday		6.03 \pm 0.59	5.32 \pm 2.03		5.55 \pm 1.57
1986						
	Weekend	5.13	9.04	6.10 \pm 1.58	7.69	6.62 \pm 6.13
	Weekday	4.99	3.73 \pm 1.36	5.33 \pm 0.62		4.39 \pm 1.95
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						
	Weekend	14.78 \pm 4.71	6.56 \pm 1.58	12.94 \pm 2.04	8.94	13.18 \pm 4.28
	Weekday	13.31 \pm 6.69	9.82 \pm 8.67			11.56 \pm 5.48
1984						
	Weekend	5.50	15.17 \pm 3.52	4.23		9.63 \pm 4.16
	Weekday		17.62		6.10	7.04 \pm 7.04
1985						
	Weekend	12.20 \pm 0.10	8.75	7.80 \pm 1.45	6.08	8.63 \pm 1.70
	Weekday	5.15	11.66 \pm 1.29	3.95		8.14 \pm 3.24
1986						
	Weekend	6.73	7.91	6.33		6.77 \pm 6.77
	Weekday		11.66 \pm 3.52	5.75		11.62 \pm 3.53

Table J.10. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
	1986						
		Weekend	8.98 ± 0.25	10.41 ± 1.11	8.91 ± 1.10		9.44 ± 0.65
		Weekday	7.10 ± 0.56	11.06 ± 0.96	7.84 ± 0.73	6.84	7.48 ± 1.04
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					
	1986						
		Weekend	3.18				3.18
		Weekday		2.57			2.57
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
	1986						
		Weekend	0.50 ± 0.08	0.49 ± 0.08	0.58 ± 0.12	1.25 ± 0.39	0.59 ± 0.12
		Weekday	0.28 ± 0.01	0.89 ± 0.18	0.40 ± 0.10		0.67 ± 0.13

Table J.10. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
	1986						
		Weekend	0.18	0.59 ± 0.07			0.21 ± 0.17
		Weekday		0.38 ± 0.01			0.38 ± 0.01
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
	1986						
		Weekend	0.88 ± 0.30	1.96			0.94 ± 0.39
		Weekday	0.91 ± 0.23		1.27		0.91 ± 0.24
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
	1986						
		Weekend	1.24 ± 0.20	0.80			1.23 ± 0.20
		Weekday		0.83			0.83

Table J.10. (Cont'd.)

Species	Year	Day type	Area				Coastwide ^a
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Vermilion snapper							
	1982 ^b	Weekend					
		Weekday					
	1983	Weekend					
		Weekday			0.24		0.24
	1984	Weekend					
		Weekday			0.36		0.36
	1985	Weekend					
		Weekday					
	1986	Weekend	0.19				0.19
		Weekday					
All species combined ^a							
	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
	1986	Weekend	6.06 ± 1.27	2.38 ± 0.81	2.78 ± 0.84	2.04 ± 1.48	4.51 ± 1.20
		Weekday	4.59 ± 1.04	4.78 ± 0.99	4.92 ± 1.15	6.80	4.75 ± 0.17

^aIncludes "other" species.

^bMean 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 EEZ during the low-use season by species, day type and area (1982-1987). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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					
	1986-87					
	Weekend	0.26			0.27	0.27
	Weekday					
Atlantic sharpnose shark						
	1982-83 ^b					
	Weekend					
	Weekday					
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				7.70	7.70
	Weekday					
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend					
	Weekday					
Cobia						
	1982-83					
	Weekend					
	Weekday					
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend					
	Weekday					

Table J.11. (Cont'd.)

Species	Year	Area			Coastwide ^a
		Galveston	Matagorda	Corpus Christi	
King mackerel					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend			7.56		7.56
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					
1986-87					
Weekend			4.44		4.44
Weekday			2.47 ± 0.51		2.47 ± 0.51
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
1986-87					
Weekend		0.47	0.31	0.80	0.65
Weekday			0.49 ± 0.07		0.49 ± 0.07

Table J.11. (Cont'd.)

Species Year Day type	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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					
1986-87					
Weekend	0.34	0.39			0.36
Weekday		0.32 ± 0.12			0.32 ± 0.12
Spanish mackerel					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					
Spotted seatrout					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend					
Weekday					

Table J.11. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Vermilion snapper						
	1982-83 ^b					
	Weekend					
	Weekday					
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend					
	Weekday					
All species combined ^a						
	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
	1986-87					
	Weekend	0.38 ± 0.03	5.10 ± 2.52		0.70 ± 0.00	0.97 ± 0.58
	Weekday		0.70 ± 0.26			0.70 ± 0.26

^aIncludes "other" species.

^bMean 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 EEZ by species and area (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
1983-84	236 \pm 4	270			241 \pm 38
1984-85		298 \pm 11	343		307 \pm 63
1985-86		225			225
1986-87	274			275	275
Atlantic sharpnose shark					
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
1986-87	898 \pm 2	904 \pm 101	900 \pm 51	1016	936 \pm 341
Cobia					
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
1986-87	950	1071 \pm 90	918 \pm 14		1053 \pm 87
King mackerel					
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
1986-87	953 \pm 26	1036 \pm 21	945 \pm 21	903	967 \pm 57
Red drum					
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
1986-87	666	626 \pm 28			638 \pm 218
Red snapper					
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
1986-87	306 \pm 9	343 \pm 17	328 \pm 16	386 \pm 15	344 \pm 14
Sand seatrout					
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
1986-87	277 \pm 28	321 \pm 13			307 \pm 18
Spanish mackerel					
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
1986-87	544 \pm 36	732	630		545 \pm 39

Table J.12. (Cont'd.)

Species Year Day type	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spotted seatrout					
1983-84		393 ± 60			393 ± 60
1984-85		566			566
1985-86	477	459 ± 37	379		449 ± 187
1986-87	501 ± 33	442 ± 4			500 ± 32
Vermilion snapper					
1983-84			281		281
1984-85			319		319
1985-86					
1986-87	262				262
All species combined ^a					
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
1986-87	647 ± 83	507 ± 34	541 ± 44	434 ± 62	571 ± 52

^aIncludes "other" species.

Table J.13. Mean lengths of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in the EEZ during the high-use season by species, day type 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 ^a					
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										
	1986											
		Weekend										
		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			
	1986											
		Weekend	896	1063	896 \pm	112	1016	960 \pm	874			
		Weekday	902	809 \pm	97	905 \pm	39	852 \pm	253			
Cobia												
	1983											
		Weekend	1185 \pm	130	931 \pm	69	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			
	1986											
		Weekend	950	1000	932			951 \pm	951			
		Weekday		1080 \pm	104	904		1079 \pm	109			
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
	1986											
		Weekend	982 \pm	11	1033 \pm	34	975 \pm	34			998 \pm	22
		Weekday	903 \pm	32	1039 \pm	27	931 \pm	26	903		916 \pm	91

Table J.13. (Cont'd.)

Species	Area										
	Year	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
Day type											
Red drum											
1983											
Weekend			585 ±	135						585 ±	135
Weekday			559 ±	148						559 ±	148
1984		675		608 ±	28					642 ±	239
Weekend				566						566	
1985				494 ±	8					494 ±	8
Weekend											
Weekday											
1986		666								666	
Weekend				608						608	
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
1986											
Weekend		321 ±	20	316 ±	12	331 ±	18	424 ±	23	332 ±	16
Weekday		273 ±	4	389 ±	24	304 ±	23			348 ±	19
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
1986											
Weekend		255		378 ±	16					265 ±	237
Weekday				327 ±	2					327 ±	2
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
1986											
Weekend		535 ±	65	732						549 ±	113
Weekday		551 ±	50			630				552 ±	51

Table J.13. (Cont'd.)

Species	Year	Area								
		Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide ^a
	Day type									
Spotted seatrout										
	1983									
	Weekend			452						452
	Weekday			333						333
	1984									
	Weekend			566						566
	Weekday									
	1985									
	Weekend	477		459 ± 37						464 ± 148
	Weekday					379				379
	1986									
	Weekend	501 ± 33		438						500 ± 37
	Weekday			446						446
Vermilion snapper										
	1983									
	Weekend									
	Weekday					281				281
	1984									
	Weekend									
	Weekday					319				319
	1985									
	Weekend									
	Weekday									
	1986									
	Weekend	262								262
	Weekday									
All species combined ^a										
	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
	1986									
	Weekend	684 ± 110		465 ± 52		509 ± 47		574 ± 117		600 ± 67
	Weekday	723 ± 80		608 ± 52		610 ± 98		785 ± 95		696 ± 30

^aIncludes "other" species.

Table J.14. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in the EEZ during the low-use season by species, day type and area (1983-1987). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker						
	1983-84					
	Weekend		270			270
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend	274			275	275
	Weekday					
Atlantic sharpnose shark						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday				1017	1017
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend					
	Weekday					
Cobia						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend					
	Weekday					
King mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
	1985-86					
	Weekend					
	Weekday					
	1986-87					
	Weekend		940			940
	Weekday					

Table J.14. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red drum							
	1983-84						
	Weekend			544 ± 18			544 ± 18
	Weekday			498			498
	1984-85						
	Weekend						
	Weekday						
	1985-86						
	Weekend	623		680			625
	Weekday						
	1986-87						
	Weekend			744			744
	Weekday			606 ± 41			606 ± 41
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
	1986-87						
	Weekend	313		287		373	347
	Weekday			317 ± 12			317 ± 12
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						
	1986-87						
	Weekend	316		331			321
	Weekday			302 ± 42			302 ± 42
Spanish mackerel							
	1983-84						
	Weekend						
	Weekday						
	1984-85						
	Weekend						
	Weekday						
	1985-86						
	Weekend						
	Weekday						
	1986-87						
	Weekend						
	Weekday						

Table J.14. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Spotted seatrout						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				
		Weekday				
	1985-86					
		Weekend				
		Weekday				
	1986-87					
		Weekend				
		Weekday				
Vermilion snapper						
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				
		Weekday				
	1985-86					
		Weekend				
		Weekday				
	1986-87					
		Weekend				
		Weekday				
All species combined ^a						
	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		393 ± 57
		Weekday			378	378
	1986-87					
		Weekend	385 ±	27	362 ± 8	382 ± 16
		Weekday				382 ± 24

^aIncludes "other" species.

Table J.15. Percent composition of "other" species caught by private-boat fishermen in the EEZ by area, season and day type (1983-1987).

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 capricus</u>		11.34	4.71			5.15
			Great barracuda	<u>Sphyræna 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				0.69
			Remora sp.	Family <u>Echeneidae</u>			1.18			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		40.00		1.37
			Dusky shark	<u>Carcharhinus obscurus</u>						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
			Snappers sp.	Family <u>Lutjanidae</u>						
			Gray snapper	<u>Lutjanus griseus</u>			4.71			1.37
			Lane snapper	<u>Lutjanus synagris</u>	6.73		1.18			2.75

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
			Southern kingfish	<u>Menticirrhus americanus</u>	0.96	11.34	3.53		4.12	
			Wahoo	<u>Acanthocybium solanderi</u>				36.36	1.03	
Weekday			Atlantic bonito	<u>Sarda sarda</u>		3.70			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 <u>Coryphaenidae</u>	2.63	44.44	53.19	27.27	36.72	
			Dolphin	<u>Coryphaena hippurus</u>		2.47			1.13	
			Gray triggerfish	<u>Balistes capricus</u>					0.56	
			Great barracuda	<u>Sphyræna barracuda</u>					3.95	
			Greater amberjack	<u>Seriola dumerili</u>	2.63	8.64			0.56	
			Hardhead	<u>Arius felis</u>					0.56	
			Ladyfish	<u>Elops saurus</u>		1.23			6.21	
			Little tunny	<u>Euthynnus alletteratus</u>		1.23	21.28		0.56	
			Pigfish	<u>Orthopristis chrysoptera</u>		2.63			1.13	
			Pinfish	<u>Lagodon rhomboides</u>		2.63			0.56	
			Sailfish	<u>Istiophorus platyperus</u>			1.23		0.56	
			Sea basses sp.	Family <u>Serranidae</u>			2.13		0.56	
			Scamp	<u>Myceteroperca 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			3.95	
			Dusky shark	<u>Carcharhinus obscurus</u>			4.26		2.26	
			Sandbar shark	<u>Carcharhinus plumbeus</u>			8.51		0.56	
			Spinner shark	<u>Carcharhinus brevipinna</u>		3.70		9.09	1.69	
			Sheepshead	<u>Archosargus probatocephalus</u>		11.11			6.78	
			Snappers sp.	Family <u>Lutjanidae</u>						
			Lane snapper	<u>Lutjanus synagris</u>		1.23			0.56	
			Southern flounder	<u>Paralichthys lethostigma</u>			2.13		0.56	

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
	Low use									
	Weekend		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
			Silver seatrout	<u>Cynoscion nothus</u>		15.91				15.91
			Southern kingfish	<u>Menticirrhus americanus</u>		9.09				9.09
	Weekday		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
1984-85	High use									
	Weekend		Atlantic bonito	<u>Sarda sarda</u>		6.88				3.53
			Atlantic spadefish	<u>Chaetodipterus faber</u>		7.94				7.34
			Blackfin tuna	<u>Thunnus atlanticus</u>		0.53		12.77	19.23	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	16.40		40.43	30.77	21.20
			Pompano dolphin	<u>Coryphaena equisetis</u>		2.12				1.09
			Gray triggerfish	<u>Balistes capriscus</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
			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		7.45	23.08	4.08
			Pigfish	<u>Orthopristis chrysoptera</u>		1.06		3.19		1.36
			Pinfish	<u>Lagodon rhomboides</u>		0.53				0.27

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
			Sailfish	<u>Istiophorus platyterus</u>		0.53			3.85	0.54
			Sea basses sp.	Family <u>Serranidae</u>		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		7.45			2.45
			Finetooth shark	<u>Carcharhinus isodon</u>		0.53				0.27
			Requiem sharks	Family <u>Carcharhinidae</u>		0.53	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 <u>Lutjanidae</u>						
			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>Ancanthocybium 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
						16.67				
			Atlantic bonito	<u>Sarda sarda</u>						4.09
			Atlantic spadefish	<u>Chaetodipterus faber</u>						1.82
			Blackfin tuna	<u>Thunnus atlanticus</u>	57.14				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 <u>Coryphaenidae</u>						
			Dolphin	<u>Coryphaena hippurus</u>					1.75	30.91
			Pompano dolphin	<u>Coryphaena equisetis</u>	14.29	27.78	50.00		1.75	3.64
			Great barracuda	<u>Sphyrna barracuda</u>		12.96				1.36
			Greater amberjack	<u>Seriola dumerili</u>		3.70	0.98			11.36
			Little tunny	<u>Euthynnus alletteratus</u>		9.26	19.61			12.27
			Rainbow runner	<u>Etagus bipinnulata</u>	14.29	5.56	11.76		19.30	3.18
						12.96				

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area							
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide			
			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>						0.45		
			Silver seatrout	<u>Cynoscion nothus</u>	14.29				52.63	13.64		
			Snappers sp.	Family Lutjanidae								
			Lane snapper	<u>Lutjanus synagrus</u>			0.98			0.45		
			Southern flounder	<u>Paralichthys lethostigma</u>			9.80		3.51	5.45		
			Tarpon	<u>Megalops atlanticus</u>			0.98			0.45		
			Tomtate	<u>Haemulon aurolineatum</u>			0.98			0.45		
						Atlantic bonita	<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				72.86		
Gray triggerfish	<u>Balistes capricus</u>								40.00	2.86		
Sea basses sp.	Family Serranidae											
Gag	<u>Mycteroperca microlepis</u>					1.54				1.43		
Silver seatrout	<u>Cynoscion nothus</u>								60.00	4.29		
Weekday						Silver seatrout	<u>Cynoscion nothus</u>		95.35			95.35
						Southern kingfish	<u>Menticirrhus americanus</u>		4.65			4.65
1985-86	High use	Weekend				Almaco jack	<u>Seriola rivolana</u>		1.44		9.19	3.34
						Atlantic bonito	<u>Sarda sarda</u>		3.77		0.74	1.96
						Atlantic spadefish	<u>Chaetodipterus faber</u>		7.92		0.74	3.46
						Banded shrimp eel	<u>Opichthus</u> sp.				0.37	0.12
						Black drum	<u>Pogonias cromis</u>		0.38		0.37	2.65
			Blackfin tuna	<u>Thunnus atlanticus</u>		7.58		1.10	20.37	1.61		

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
			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.	<u>Family Coryphaenidae</u>		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 carpicus</u>		1.08		3.68		1.50
			Great barracuda	<u>Sphyrna 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>		0.36				0.12
			Jacks sp.	<u>Family Carangidae</u>		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>Elagatis bipinnulata</u>		0.36				0.12
			Sailfish	<u>Istiophorus platypterus</u>		0.36				0.35
			Sea Basses sp.	<u>Family Serranidae</u>	0.38	2.89		0.74	1.85	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
			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	<u>Family 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		0.37		0.23
			Sheepshead	<u>Archosargus probatocephalus</u>		0.72		0.37	1.85	0.35
			Silver seatrout	<u>Cynoscion nothus</u>	0.38					0.23
			Snappers sp.	<u>Family Lutjanidae</u>						0.35
			Lane snapper	<u>Lutjanus synagris</u>						0.23
			Southern flounder	<u>Paralichthys lethostigma</u>	1.13	0.72				0.35

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
			Southern kingfish	<u>Menticirrhus americanus</u>						0.23
			Tripletail	<u>Lobotes surinamensis</u>	1.51	0.72				0.46
			Wahoo	<u>Acanthocybium solanderi</u>		0.36				0.12
	Weekday		Atlantic bonito	<u>Sarda sarda</u>			7.14			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>						0.24
			Dolphin	<u>Coryphaena hippurus</u>	7.14	20.31				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
			Horseye jack	<u>Caranx latus</u>		0.26				0.24
			Little tunny	<u>Euthynnus alletteratus</u>	42.86	0.51				2.88
			Remora	<u>Remora remora</u>						0.48
			Sailfish	<u>Istiophorus platypterus</u>						0.48
			Sea basses sp.	Family <u>Serranidae</u>						0.48
			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>						0.48
			Great hammerhead	<u>Sphyrna mokarran</u>	7.14					0.24
			Requiem sharks	Family <u>Carcharhinidae</u>		0.26				0.24
			Sticky 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									
	Weekend		Black drum	<u>Pogonias cromis</u>	2.33					6.00
			Blue fish	<u>Pomatomus saltatrix</u>	2.33					2.00
			Gray triggerfish	<u>Balistes capriciscus</u>	6.98					6.00
			Greater amberjack	<u>Seriola dumerili</u>						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

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
			Sea basses sp.	Family Serranidae						
			Gag	<u>Mycteroperca 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 Serranidae						
			Scamp	<u>Mycteroperca phenax</u>				27.27		27.27
1986-87	High use		Almaco jack	<u>Seriola rivirolana</u>		6.12	1.35			2.94
	Weekend		Atlantic bonito	<u>Sarda sarda</u>		0.68	2.70			0.88
			Atlantic spadefish	<u>Chaetodipterus faber</u>	18.02	2.72	1.35			7.35
			Bearded brotula	<u>Brotula barbata</u>			1.35			0.29
			Black drum	<u>Pogonius cromis</u>		2.04				0.88
			Blackfin tuna	<u>Thunnus atlanticus</u>				12.50		0.29
			Blue runner	<u>Caranx crysos</u>	0.90	2.04	4.05			2.06
			Bluefish	<u>Pomatomus saltatrix</u>	0.90	2.72				1.47
			Blue gill	<u>Lepomis macrochirus</u>		12.24				5.29
			Crevalle jack	<u>Caranx hippos</u>	6.31		5.40			3.24
			Dolphins sp.	Family Coryphaenidae						
			Dolphin	<u>Coryphaena hippurus</u>	54.05	5.44	55.40			32.06
			Pompano dolphin	<u>Coryphaena equisetis</u>				12.50		0.29
			Florida pompano	<u>Trachinotus carolinus</u>		0.68				0.29
			Gray triggerfish	<u>Balistes capriscus</u>		10.88				4.71
			Great barracuda	<u>Sphyraena barracuda</u>			1.35			0.29
			Greater amberjack	<u>Seriola dumerili</u>	0.90	22.45	10.81			12.35
			Guaguanche	<u>Sphyraena guachancho</u>			1.35			0.29
			Jacks sp.	Family Carangidae						0.59
			ladyfish	<u>Elops saurus</u>		0.68	1.35			0.59
			little tunny	<u>Euthynnus alletteratus</u>	9.91	0.68	2.70		37.50	5.00
			Pigfish	<u>Orthopristis chrysoptera</u>		3.40				1.47
			Pintfish	<u>Lagodon rhomboides</u>			1.35			0.29

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
			Sailfish	<u>Istiophorus platyterus</u>						
			Sea basses sp.	Family Serranidae		1.36			12.50	0.29
			Rock hind	<u>Epinephelus adscensionis</u>		1.36				0.59
			Warsaw grouper	<u>Epinephelus nigritus</u>		0.68		1.35	12.50	0.59
			Sea cutfishes	Family Arridae				1.35		0.88
			Sharks sp.							0.29
			Blacktip shark	<u>Carcharhinus limbatus</u>	1.80	11.56				5.59
			Bonnethead	<u>Sphyrna tiburo</u>		0.68				0.29
			Bull shark	<u>Carcharhinus leucas</u>			1.35			0.29
			Lemon shark	<u>Negaprion brevirostris</u>	0.90					0.29
			Scalloped hammerhead	<u>Sphyrna lewini</u>					12.50	0.29
			Sheepshead	<u>Archosargus probatocephalus</u>		6.12				2.65
			Snappers sp.	Family Lutjanidae						
			Lane snapper	<u>Lutjanus synagris</u>		1.36		2.70		1.18
			Yellowtail snapper	<u>Ocyurus chrysurus</u>		0.68				0.29
			Southern flounder	<u>Paralichthys lethostigma</u>		2.04				0.88
			Southern kingfish	<u>Menticirrhus americanus</u>						2.06
			Spotted spoon-nose eel	<u>Echtophis intertinctus</u>	6.31					0.29
			Tomtate	<u>Haemulon aurolineatum</u>		0.68		1.35		0.29
			Atlantic bonito	<u>Sarda sarda</u>		0.75				0.47
			Atlantic spadefish	<u>Chaetodipterus faber</u>		14.18				20.19
			Blue runner	<u>Caranx crysos</u>		4.48		48.00		3.29
			Cero	<u>Scomberomorus regalis</u>		1.49		6.00	33.33	0.94
			Crevaille jack	<u>Caranx hippos</u>		2.98		6.00		4.70
			Dolphins sp.	Family Coryphaenidae						
			Dolphin	<u>Coryphaena hippurus</u>	19.23	26.12		20.00	66.67	24.41
			Gafftopsail catfish	<u>Bagre marinus</u>		3.73				2.35
			Gray triggerfish	<u>Balistes capricus</u>		11.19		6.00		8.45
			Great barracuda	<u>Sphyraena barracuda</u>		2.98				1.88
			Greater amberjack	<u>Seriola dumerili</u>		20.15		2.00		13.15
			Hardhead catfish	<u>Arius felis</u>				4.00		0.94

Weekday

Table J.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Coastwide
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
	Weekday		Atlantic bonita	<u>Sarda sarda</u>		2.70				2.70
			Black drum	<u>Pogonius cromis</u>		19.20				19.20
			Bony fishes sp.	Class <u>Osteichthyes</u>		1.40				1.40
			Greater amberjack	<u>Seriola dumerili</u>		47.90				47.90
			Sea basses sp.	Family <u>Serranidae</u>						
			Rock hind	<u>Epinephalus adscensionis</u>		6.80				6.80
			Warsaw grouper	<u>Epinephalus nigrifus</u>		9.60				9.60
			Sheepshead	<u>Archosargus probatocephalus</u>		9.60				9.60
			Southern kingfish	<u>Menticirrhus americanus</u>		2.70				2.70

Table J.16. Percent composition of the annual residential origin of private-boat fishermen-trips in the EEZ by area (1982-87).

Area Year ^a	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1982-83	100	0	0	0
1983-84	87	0	10	3
1984-85	93	7	0	0
1985-86	89	1	10	1
1986-87	85	2	9	3
Matagorda				
1982-83	65	24	11	0
1983-84	32	24	41	3
1984-85	49	17	33	0
1985-86	54	18	27	1
1986-87	42	20	37	1
Corpus Christi				
1982-83	39	33	27	1
1983-84	20	31	45	3
1984-85	18	17	62	2
1985-86	24	13	60	2
1986-87	27	23	49	1
Lower Laguna Madre				
1982-83	82	6	12	0
1983-84	45	8	45	3
1984-85	72	4	14	10
1985-86	66	9	16	8
1986-87	62	12	26	0
Coastwide				
1982-83	64	19	17	0
1983-84	36	22	39	3
1984-85	38	17	44	1
1985-86	50	12	37	2
1986-87	54	14	31	2

^a 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 EEZ during the high-use season by area and day type (1982-1986).

Area Year ^a	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	100	0	0	0	100	0	0	0
1983	84	0	12	4	100	0	0	0
1984	90	10	0	0	100	0	0	0
1985	86	0	13	1	100	0	0	0
1986	86	4	9	2	86	0	11	3
Matagorda								
1982	46	30	24	0	47	35	18	0
1983	30	30	38	2	34	10	49	7
1984	45	16	38	0	65	14	20	1
1985	53	20	26	1	53	9	35	3
1986	49	17	34	0	30	17	51	2
Corpus Christi								
1982	22	21	56	1	33	12	54	2
1983	21	36	42	3	17	19	56	8
1984	21	17	61	0	14	17	64	5
1985	28	12	59	1	13	13	67	7
1986	34	18	48	1	16	31	50	2
Lower Laguna Madre								
1982	94	6	0	0	70	5	24	0
1983	47	10	40	3	29	0	71	0
1984	81	5	11	2	52	0	12	37
1985	66	11	19	5	57	0	0	43
1986	72	12	13	2	64	12	19	4
Coastwide								
1982	47	20	32	0	46	18	35	1
1983	37	25	35	2	33	13	49	6
1984	40	16	44	0	34	16	46	4
1985	51	12	36	1	41	9	45	5
1986	60	11	28	1	40	18	40	2

^aPrior 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 EEZ during the low-use season by area and day type (1982-1987). Blank = no fishermen interviewed.

Area Year ^a	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	0	0	0
1986-87	78	0	13			
Matagorda						
1982-83	89	11	0	78	22	0
1983-84	37	31	0	20	0	80
1984-85	27	45	0	100	0	0
1985-86	76	24	0	100	0	0
1986-87	59	41	0	50	45	5
Corpus Christi						
1982-83	100	0	0	100	0	0
1983-84						
1984-85						
1985-86	0	100	0			
1986-87	60	0	40	0	0	0
Lower Laguna Madre						
1982-83						
1983-84	100	0	0			
1984-85	100	0	0			
1985-86				100	0	0
1986-87	89	11	0	100	0	0
Coastwide						
1982-83	76	24	0	86	14	0
1983-84	40	29	0	20	0	80
1984-85	47	33	0	100	0	0
1985-86	81	19	0	100	0	0
1986-87	72	15	7	62	35	4

^aprior 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 EEZ by area, season and day type (1982-1987). 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	3.1	8.1	7.2	8.2	7.0
1983-84	3.2	2.6			3.0	3.0	9.1	9.5		9.2
1984-85	3.3	2.4			3.0	3.0	7.0	7.1		7.0
1985-86	3.3	3.2	2.4		3.2	3.2	8.6	9.4		8.8
1986-87	3.5	2.9	3.3		3.3	3.3	8.9	7.4		8.4
Matagorda										
1982-83	3.2	3.1	2.6	2.6	3.1	3.1	7.9	8.8	7.9	8.1
1983-84	3.2	3.0	3.1	2.5	3.1	3.1	7.6	8.2	8.2	7.6
1984-85	3.1	2.5	2.9	2.9	2.8	2.8	8.0	6.5	5.4	7.1
1985-86	3.2	3.2	3.4	2.0	3.2	3.2	7.4	7.3	5.0	7.4
1986-87	3.6	3.1	3.1	3.1	3.3	3.3	7.8	9.8	8.4	8.6
Corpus Christi										
1982-83	3.2	3.2	3.0	2.5	3.2	3.2	7.0	7.2	6.3	7.1
1983-84	3.4	2.8			3.2	3.2	7.9	7.2		7.7
1984-85	3.4	3.1			3.3	3.3	7.1	6.7		6.9
1985-86	3.4	3.0	4.0		3.3	3.3	7.6	8.2		7.7
1986-87	3.0	2.8	5.0		2.9	2.9	7.5	7.5		7.5
Lower Laguna Madre										
1982-83	3.5	3.1			3.3	3.3	7.5	8.7		8.0
1983-84	2.6	2.4	3.0		3.0	3.0	7.9	7.4		7.8
1984-85	3.5	2.8	2.7		3.3	3.3	7.8	6.8		7.5
1985-86	3.8	3.5		3.0	3.7	3.7	7.7	6.8	9.5	7.7
1986-87	3.5	3.0	3.0	3.0	3.2	3.2	8.0	6.4	6.2	7.4
Coastwide										
1982-83	3.2	3.2	2.7	2.4	3.2	3.2	7.4	7.8	7.7	7.6
1983-84	3.2	2.9	3.1	2.5	3.1	3.1	8.0	7.9	8.2	7.9
1984-85	3.4	3.0	2.7	1.0	3.2	3.2	7.4	7.1	4.0	7.3
1985-86	3.3	3.1	2.9	2.5	3.3	3.3	7.8	8.1	7.2	7.8
1986-87	3.3	2.9	3.3	3.1	3.2	3.2	8.1	8.1	7.9	8.1

Appendix K: Estimates for party-boat fishing in the Exclusive Economic Zone (EEZ) off Texas.

Table K.1. Number of days surveyed and number of party-boat fishermen interviewed () in the EEZ by season, day type and area (1983-1987). WE = weekend days. WD = weekdays.

Year	Season	Day type	Area					
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
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.1. (Cont'd.)

Year Season Day type	Area					Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1986-87						
High use						
WE	31 (0)	41 (5)	49 (0)	31 (8)	152 (13)	
WD	66 (12)	88 (14)	102 (13)	66 (46)	322 (85)	
Low use						
WE	12 (0)	21 (11)	22 (0)	12 (6)	67 (17)	
WD	24 (0)	42 (0)	40 (0)	24 (0)	130 (0)	
Annual	133 (12)	192 (30)	213 (13)	133 (60)	671 (115)	

Table K.2. Pressure estimates (man-h x 1000) \pm 1 SE for party-boat fishermen in the EEZ by season, day type and area (1983-1987).

Area Year	High-use season		Low-use season		Annual ^a
	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
1986-87	0.0	15.7 \pm 14.9	0.0	0.0	15.7 \pm 14.9
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
1986-87	0.1 \pm 0.1	0.3 \pm 0.3	1.0 \pm 1.0	0.0	1.3 \pm 1.0
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
1986-87	0.0	9.0 \pm 6.3	0.0	0.0	9.0 \pm 6.3
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
1986-87	3.5 \pm 2.8	12.6 \pm 7.2	2.3 \pm 2.3	0.0	18.4 \pm 8.1
Coastwide ^a					
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
1986-87	3.6 \pm 2.8	37.6 \pm 17.7	3.2 \pm 2.5	0.0	44.4 \pm 18.1

^aDue 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 EEZ by species and area (1983-1987).

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Laguna Madre	Lower	
Atlantic croaker						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	0.0	0.4 \pm 0.4
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1
1986-87	<.1 \pm <.1	0.0	0.1 \pm 0.1	0.0	0.0	0.1 \pm 0.1
Cobia						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
1985-86	0.0	0.0	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
1986-87	0.0	<.1 \pm <.1	0.0	0.0	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	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	<.1 \pm <.1	4.2 \pm 4.2
1985-86	0.3 \pm 0.3	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1	0.8 \pm 0.5
1986-87	1.6 \pm 1.6	<.1 \pm <.1	1.0 \pm 0.9	0.7 \pm 0.7	0.7 \pm 0.7	3.4 \pm 1.9
Red drum						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	3.3 \pm 2.0
1984-85	0.0	0.0	0.0	0.2 \pm 0.2	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	0.5 \pm 0.4	3.7 \pm 2.4
1986-87	0.0	<.1 \pm <.1	0.0	1.0 \pm 1.0	1.0 \pm 1.0	1.1 \pm 1.0

Table K.3. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Sand seatrout						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
1983-84	0.3 ± 0.3	0.0	0.2 ± 0.2	0.0	0.5 ± 0.3	
1984-85	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1	
1985-86	0.1 ± 0.1	0.0	0.0	<.1 ± <.1	0.1 ± 0.1	
1986-87	0.2 ± 0.2	0.0	0.0	0.0	0.2 ± 0.2	
Spotted seatrout						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0
Vermilion snapper						
1983-84	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	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	
1986-87	0.9 ± 0.8	0.3 ± 0.3	2.1 ± 2.0	5.2 ± 2.9	8.5 ± 3.7	
All species combined^a						
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	
1986-87	2.7 ± 2.5	0.4 ± 0.4	3.3 ± 2.4	6.9 ± 3.2	13.3 ± 4.7	

^aDue 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 EEZ during the high-use season by species, day type and area (1983-1986).

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Atlantic croaker						
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
1986						
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						
1983						
Weekend	0.0	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	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	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1986						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	<.1 \pm <.1	0.0	0.1 \pm 0.1	0.0	0.1 \pm 0.1	0.1 \pm 0.1
Cobia						
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	<.1 \pm <.1	0.0	<.1 \pm <.1	<.1 \pm <.1

Table K.4. (Cont'd.)

Species Year	Area					Coastwide ^a
	Day type	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)						
1985						
Weekend	0.0	0.0		<.1 ± <.1	0.0	<.1 ± <.1
Weekday	0.0	0.0		0.0	0.0	0.0
1986						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	<.1 ± <.1		0.0	0.0	<.1 ± <.1
King mackerel						
1983						
Weekend	1.6 ± 1.6	0.0		2.0 ± 1.7	<.1 ± <.1	3.6 ± 2.3
Weekday	0.0	0.1 ± 0.1		9.7 ± 7.0	0.2 ± 0.1	9.9 ± 7.0
1984						
Weekend	0.0	<.1 ± <.1		0.9 ± 0.6	<.1 ± <.1	0.9 ± 0.6
Weekday	0.0	0.0		3.3 ± 2.1	0.0	3.3 ± 2.1
1985						
Weekend	0.0	0.0		0.1 ± 0.1	0.0	0.1 ± 0.1
Weekday	0.3 ± 0.3	0.0		0.3 ± 0.3	<.1 ± <.1	0.7 ± 0.5
1986						
Weekend	0.0	0.0	0.0	0.0	0.0	0.0
Weekday	1.6 ± 1.6	<.1 ± <.1		1.1 ± 0.9	0.7 ± 0.7	3.4 ± 1.9
Red drum						
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	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0
1986						
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 K.4. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper 1983	Weekend	0.0	0.0	0.0	3.3 ± 2.0	3.3 ± 2.0
	Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
1984	Weekend	0.0	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2
	Weekday	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
	Weekday	0.5 ± 0.5	0.0	0.0	0.0	0.5 ± 0.5
1986	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	1.0 ± 1.0	1.0 ± 1.0
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
1986	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	0.3 ± 0.3	0.0	0.2 ± 0.2	0.0	0.5 ± 0.3
	Weekday	0.0	0.0	0.0	0.0	0.0
1984	Weekend	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	0.0	0.0	0.0	0.0

Table K.4. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Spanish mackerel (Cont'd.)						
1985						
Weekend	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
1986						
Weekend	0.0	0.0	0.0	0.0		0.0
Weekday	0.2 ± 0.2	0.0	0.0	0.0		0.2 ± 0.2
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
1986						
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
1986						
Weekend	0.0	0.0	0.0	0.0		0.0
Weekday	0.0	0.0	0.0	0.0		0.0

Table K.4. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Laguna Madre	Lower	
Day type						
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	
1986						
Weekend	0.0	<.1 ± <.1	0.0	0.8 ± 0.6	0.8 ± 0.6	
Weekday	0.9 ± 0.8	<.1 ± <.1	2.1 ± 2.0	3.9 ± 2.8	6.9 ± 3.6	
All species combined ^a						
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	
1986						
Weekend	0.0	<.1 ± <.1	0.0	0.8 ± 0.6	0.8 ± 0.6	
Weekday	2.7 ± 2.5	<.1 ± <.1	3.3 ± 2.4	5.6 ± 3.1	11.7 ± 4.7	

^aDue to rounding of numbers, these totals may not exactly equal individual totals.

Table K.5. Estimated landings of fishes (No. x 1000) ± 1 SE caught by party-boat fishermen in the EEZ during the low-use season by species, day type and area (1983-1987).

Species Year	Day Type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	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
1986-87	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

Table K.5. (Cont'd.)

Species Year	Day type	Area					Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Cobia (Cont'd.)							
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
1986-87	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	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	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
1986-87	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 drum							
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
1986-87	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 K.5. (Cont'd.)

Species Year	Area					Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Red snapper						
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
1986-87						
Weekend	0.0	<.1 ± <.1	0.0	0.0	0.0	<.1 ± <.1
Weekday	0.0	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	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
1986-87						
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						
1983-84						
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

Table K.5. (Cont'd.)

Species Year	Day type	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)						
1985-86	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1986-87	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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
1986-87	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
1986-87	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				Coastwide ^a
		Calveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986-87	Weekend	0.0	0.3 ± 0.3	0.0	0.5 ± 0.5	0.8 ± 0.6
	Weekday	0.0	0.0	0.0	0.0	0.0
All species combined ^a						
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
1986-87	Weekend	0.0	0.4 ± 0.4	0.0	0.5 ± 0.5	0.8 ± 0.6
	Weekday	0.0	0.0	0.0	0.0	0.0

^aDue 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 EEZ by species and area (1983-1987). 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	0.00
1986-87	0.00	0.00	0.00	0.00	0.00
Atlantic sharpnose shark					
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
1986-87	<.01 \pm <.01	0.00	0.01 \pm 0.01	0.00	<.01 \pm <.01
Cobia					
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
1986-87	0.00	0.01 \pm 0.01	0.00	0.00	0.00
King mackerel					
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
1986-87	0.10 \pm 0.10	0.02 \pm 0.02	0.12 \pm 0.11	0.04 \pm 0.04	0.08 \pm 0.05
Red drum					
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
1986-87	0.00	0.00	0.00	0.00	0.00
Red snapper					
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
1986-87	0.00	0.02 \pm 0.02	0.00	0.06 \pm 0.06	0.02 \pm 0.02

Table K.6. (Cont'd.)

Species Year	Area				Lower Laguna Madre	Coastwide
	Galveston	Matagorda	Corpus Christi			
Sand seatrout						
1983-84	0.00	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
1986-87	0.00	0.00	0.00	0.00	0.00	0.00
Spanish mackerel						
1983-84	0.03 ± 0.03	0.00	<.01 ± <.01	0.00	<.01 ± <.01	<.01 ± <.01
1984-85		0.00	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1985-86	0.02 ± 0.02		0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
1986-87	0.01 ± 0.01	0.00	0.00	0.00	<.01 ± <.01	<.01 ± <.01
Spotted seatrout						
1983-84	0.00	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
1986-87	0.00	0.00	0.00	0.00	0.00	0.00
Vermilion snapper						
1983-84	0.00	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
1986-87	0.00	0.00	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	0.14 ± 0.11
1984-85		0.06 ± 0.06	0.04 ± 0.02	0.16 ± 0.13	0.07 ± 0.04	0.07 ± 0.04
1985-86	0.06 ± 0.06		0.08	0.45 ± 0.34	0.23	0.23
1986-87	0.06 ± 0.06	0.26 ± 0.25	0.23 ± 0.23	0.28 ± 0.19	0.19 ± 0.11	0.19 ± 0.11
All species combined^a						
1983-84	0.26 ± 0.25	0.04 ± 0.04	0.27 ± 0.18	0.72 ± 0.50	0.29 ± 0.16	0.29 ± 0.16
1984-85		0.11 ± 0.11	0.23 ± 0.14	0.20 ± 0.15	0.22 ± 0.11	0.22 ± 0.11
1985-86	0.32 ± 0.32		0.52 ± 0.42	0.53 ± 0.36	0.49 ± 0.25	0.49 ± 0.25
1986-87	0.17 ± 0.17	0.31 ± 0.29	0.36 ± 0.32	0.38 ± 0.23	0.30 ± 0.16	0.30 ± 0.16

^aDue 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 EEZ during the high-use season by species, day type and area (1983-1986). Blank = no fishermen interviewed.

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
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
1986	Weekend		0.00	0.00	0.00	0.00
	Weekday	0.00	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
1986	Weekend		0.00		0.00	0.00
	Weekday	<.01 \pm <.01	0.00	0.01 \pm 0.01	0.00	<.01 \pm <.01
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

Table K.7. (Cont'd.)

Species Year	Area					Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Day type						
Cobia (Cont'd.)						
1985						
Weekend			< .01 ± < .01	0.00		< .01 ± < .01
Weekday	0.00		0.00	0.00		0.00
1986						
Weekend		0.00		0.00		0.00
Weekday	0.00	0.01 ± 0.01	0.00	0.00		0.00
King mackerel						
1983						
Weekend	0.19 ± 0.19	0.00	0.09 ± 0.09	< .01 ± < .01		0.11 ± 0.09
Weekday		0.14 ± 0.14	0.12 ± 0.10	0.04 ± 0.03		0.12 ± 0.09
1984						
Weekend		0.05 ± 0.05	0.06 ± 0.04	0.21 ± 0.21		0.06 ± 0.04
Weekday			0.49 ± 0.36	0.00		0.29 ± 0.21
1985						
Weekend			0.02 ± 0.02	0.00		0.01 ± 0.01
Weekday	0.09 ± 0.09		0.25 ± 0.25	0.01 ± 0.01		0.07 ± 0.06
1986						
Weekend		0.00		0.00		0.00
Weekday	0.10 ± 0.10	0.07 ± 0.07	0.12 ± 0.11	0.05 ± 0.05		0.09 ± 0.06
Red drum						
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
1986						
Weekend		0.00		0.00		0.00
Weekday	0.00	0.00	0.00	0.00		0.00

Table K.7. (Cont'd.)

Species Year Day type	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper					
1983					
Weekend	0.00	0.00	0.00	2.25 ± 1.61	0.10 ± 0.08
Weekday		0.02 ± 0.02	0.00	0.00	<.01 ± <.01
1984					
Weekend		0.00	0.00	0.94 ± 0.94	0.01 ± 0.01
Weekday				0.00	0.00
1985					
Weekend			0.46 ± 0.43	0.17 ± 0.15	0.36 ± 0.29
Weekday	0.15 ± 0.15		0.00	0.00	0.06 ± 0.06
1986					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.08 ± 0.08	0.03 ± 0.03
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	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
1986					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
Spanish mackerel					
1983					
Weekend	0.03 ± 0.03	0.00	0.01 ± 0.01	0.00	0.01 ± 0.01
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend		0.00	0.00	0.02 ± 0.02	<.01 ± <.01
Weekday			0.00	0.00	0.00

Table K.7. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spanish mackerel (Cont'd.)					
1985					
Weekend			0.00	0.00	0.00
Weekday	0.02 ± 0.02		0.00	0.01 ± 0.01	0.01 ± 0.01
1986					
Weekend		0.00	0.00	0.00	0.00
Weekday	0.01 ± 0.01	0.00	0.00	0.00	<.01 ± <.01
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
1986					
Weekend	0.00	0.00	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
1986					
Weekend		0.00	0.00	0.00	0.00
Weekday	0.00	0.00	0.00	0.00	0.00

Table K.7. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Day type					
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			0.07	0.82 ± 0.79	0.33
Weekend	0.06 ± 0.06		0.13 ± 0.13	0.19 ± 0.14	0.13 ± 0.09
Weekday					
1986					
Weekend	0.06 ± 0.06	0.03 ± 0.03	0.23 ± 0.23	0.24 ± 0.22	0.23 ± 0.21
Weekday		0.09 ± 0.09		0.31 ± 0.26	0.18 ± 0.12
All species combined ^a					
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	0.32 ± 0.32		0.56 ± 0.49	1.00 ± 0.90	0.72 ± 0.48
Weekday			0.38 ± 0.38	0.21 ± 0.15	0.27 ± 0.18
1986					
Weekend	0.17 ± 0.17	0.03 ± 0.03	0.36 ± 0.32	0.24 ± 0.22	0.23 ± 0.21
Weekday		0.17 ± 0.17		0.45 ± 0.32	0.31 ± 0.18

^aDue 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 EEZ during the low-use season by species, day type and area (1983-1987). Blank = no fishermen interviewed.

Species Year	Day type	Area			
		Galveston	Matagorda	Corpus Christi Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84	Weekend				
	Weekday				
1984-85	Weekend			0.00	0.00
	Weekday				
1985-86	Weekend				
	Weekday				
1986-87	Weekend		0.00	0.00	0.00
	Weekday				
Atlantic sharpnose shark					
1983-84	Weekend				
	Weekday				
1984-85	Weekend			0.00	0.00
	Weekday				
1985-86	Weekend				
	Weekday				
1986-87	Weekend		0.00	0.00	0.00
	Weekday				
Cobia					
1983-84	Weekend				
	Weekday				
1984-85	Weekend			0.00	0.00
	Weekday				

Table K.8. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)						
1985-86	Weekend					
	Weekday					
1986-87	Weekend				0.00	<.01 ± <.01
	Weekday		0.01 ± 0.01			
King mackerel						
1983-84	Weekend					
	Weekday					
1984-85	Weekend				0.00	0.00
	Weekday					
1985-86	Weekend					
	Weekday					
1986-87	Weekend				0.00	0.00
	Weekday		0.00			
Red drum						
1983-84	Weekend					
	Weekday					
1984-85	Weekend				0.00	0.00
	Weekday					
1985-86	Weekend					
	Weekday					
1986-87	Weekend				0.00	0.00
	Weekday		0.00			

Table K.8. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type					
Red snapper					
1983-84					
Weekend					
Weekday					
1984-85				0.00	0.00
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend		0.03 ± 0.03		0.00	0.01 ± 0.01
Weekday					
Sand seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend		0.00		0.00	0.00
Weekday					
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.00	0.00
Weekday					

Table K.8. (Cont'd.)

Species Year Day type	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)					
1985-86 Weekend					
Weekday					
1986-87 Weekend		0.00		0.00	0.00
Weekday					
Spotted seatrout					
1983-84 Weekend					
Weekday					
1984-85 Weekend				0.00	0.00
Weekday					
1985-86 Weekend					
Weekday					
1986-87 Weekend		0.00		0.00	0.00
Weekday					
Vermilion snapper					
1983-84 Weekend					
Weekday					
1984-85 Weekend				0.00	0.00
Weekday					
1985-86 Weekend					
Weekday					
1986-87 Weekend		0.00		0.00	0.00
Weekday					

Table K.8. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Other species					
1983-84					
Weekend					
Weekday					
1984-85				0.24 ± 0.24	0.24 ± 0.24
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend		0.33 ± 0.33		0.20 ± 0.20	0.24 ± 0.21
Weekday					
All species combined ^a					
1983-84					
Weekend					
Weekday					
1984-85				0.24 ± 0.24	0.24 ± 0.24
Weekend					
Weekday					
1985-86					
Weekend					
Weekday					
1986-87					
Weekend		0.37 ± 0.37		0.20 ± 0.20	0.25 ± 0.22
Weekday					

^aDue 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 EEZ by species and area (1983-1987). 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					
1986-87					
Atlantic sharpnose shark					
1983-84					
1984-85				4.49	4.49
1985-86			6.08 \pm 0.27		6.08
1986-87					
Cobia					
1983-84					
1984-85					
1985-86					
1986-87		7.51 \pm 1.17			7.51 \pm 1.17
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
1986-87	4.69	9.32	10.52 \pm 1.38	3.85	6.40 \pm 1.88
Red drum					
1983-84					
1984-85					
1985-86					
1986-87					
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
1986-87		2.09		1.12	1.15 \pm 0.06

Table K.9. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Sand seatrout					
1983-84					
1984-85					
1985-86					
1986-87					
Spanish mackerel					
1983-84	1.01		1.12 ± 0.05		1.06 ± 0.59
1984-85				1.04	1.04
1985-86	1.94			1.83	1.90
1986-87	0.38				0.38
Spotted seatrout					
1983-84					
1984-85					
1985-86					
1986-87					
Vermilion snapper					
1983-84					
1984-85					
1985-86					
1986-87					
All species combined ^a					
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
1986-87	4.20 ± 4.20	4.84 ± 2.68	11.70 ± 2.92	1.18 ± 0.15	4.50 ± 2.85

^aIncludes "other" species.

Table K.10. Mean weights of fishes (kg/fish) \pm 1 SE caught by party-boat fishermen in the EEZ during the high-use season by species, day type and area (1983-1986). Blank = no fish weighed. No standard error = only 1 fish weighed.

Species Year	Day type	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Atlantic croaker					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
Atlantic sharpnose shark					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
				6.08 \pm 0.27	
					4.49
					4.49
					6.08
Cobia					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				

Table K.10. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)					
1985					
Weekend					
Weekday					
1986					
Weekend		8.68			8.68
Weekday					
King mackerel					
1983					
Weekend	9.33		8.56 ± 0.42	10.67	8.94 ± 4.76
Weekday		14.24	10.19 ± 0.60	4.84 ± 0.46	10.10 ± 0.68
1984					
Weekend		7.76	7.07	4.83	6.98 ± 6.98
Weekday			10.74 ± 1.92		10.74 ± 1.92
1985					
Weekend					
Weekday	5.68		8.33	13.34	7.29
1986					
Weekend	4.69	9.32	10.52 ± 1.38	3.85	6.40 ± 1.88
Weekday					
Red drum					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend					
Weekday					
1986					
Weekend					
Weekday					

Table K.10. (Cont'd.)

Species Year Day type	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper					
1983				0.68	0.68
Weekend					2.12
Weekday		2.12			
1984				1.01	1.01
Weekend					
Weekday					
1985				0.58 ± 0.18	0.58 ± 0.18
Weekend					2.13
Weekday	2.13				
1986					
Weekend				1.12	1.12
Weekday					
Sand seatrout					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
1985					
Weekend					
Weekday					
1986					
Weekend					
Weekday					
Spanish mackerel					
1983			1.12 ± 0.05		1.06 ± 0.59
Weekend					
Weekday	1.01				
1984				1.04	1.04
Weekend					
Weekday					

Table K.10. (Cont'd.)

Species Year	Day type	Area			
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Spanish mackerel (Cont'd.)					
1985	Weekend				
	Weekday	1.94			1.90
1986	Weekend			1.83	
	Weekday	0.38			0.38
Spotted seatrout					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				
Vermilion snapper					
1983	Weekend				
	Weekday				
1984	Weekend				
	Weekday				
1985	Weekend				
	Weekday				
1986	Weekend				
	Weekday				

Table K.10. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a					
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
1986					
Weekend	4.20			1.18 ± 0.15	4.87 ± 3.03
Weekday		9.20	11.70 ± 2.92		

^aIncludes "other" species.

Table K.11. Annual mean total lengths of fishes (mm/fish) \pm 1 SE caught by party-boat fishermen in the EEZ by species and area (1983-1987). 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					
1984-85					
1985-86					
1986-87					
Atlantic sharpnose shark					
1983-84					
1984-85					
1985-86			940 \pm 9	864	864
1986-87					940
Cobia					
1983-84					
1984-85					
1985-86					
1986-87	981 \pm 49				981 \pm 49
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
1986-87	798	979	1039 \pm 40	752	867 \pm 78
Red drum					
1983-84					
1984-85					
1985-86					
1986-87					
Red snapper					
1983-84		530		354	357 \pm 177
1984-85				407	407
1985-86	454			340 \pm 32	398 \pm 245
1986-87		511		419	421 \pm 5

Table K.11. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Sand seatrout					
1983-84					
1984-85					
1985-86					
1986-87					
Spanish mackerel					
1983-84	578		603 ± 8	588	588 ± 227
1984-85				714	588
1985-86	729				724
1986-87	416				416
Spotted seatrout					
1983-84					
1984-85					
1985-86					
1986-87					
Vermilion snapper					
1983-84					
1984-85					
1985-86					
1986-87					
All species combined ^a					
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
1986-87	766 ± 25	612 ± 120	751 ± 167	498 ± 56	619 ± 88

^aIncludes "other" species.

Table K.12. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by party-boat fishermen in the EEZ during the high-use season by species, day type and area (1983-1986). Blank = no fish measured. No standard error = only 1 fish measured.

Species	Year	Day type	Area			Coastwide
			Galveston	Matagorda	Lower Laguna Madre	
Atlantic croaker						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend				
		Weekday				
	1986					
		Weekend				
		Weekday				
Atlantic sharpnose shark						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				
	1985					
		Weekend			864	864
		Weekday				
	1986					
		Weekend				
		Weekday			940 \pm 9	940
Cobia						
	1983					
		Weekend				
		Weekday				
	1984					
		Weekend				
		Weekday				

Table K.12. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Cobia (Cont'd.)						
1985	Weekend					
	Weekday					
1986	Weekend		1030			1030
	Weekday					
King mackerel						
1983	Weekend	974		960 ± 15	1051	965 ± 448
	Weekday		1136	1010 ± 20	805 ± 20	1007 ± 25
1984	Weekend		941	918	812	914 ± 871
	Weekday			1024 ± 69		1024 ± 69
1985	Weekend					
	Weekday	853		953	1130	913
1986	Weekend					
	Weekday	798	979	1039 ± 40	752	867 ± 78
Red drum						
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					

Table K.12. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper						
1983	Weekend					
	Weekday					354
1984	Weekend		530			530
	Weekday					407
1985	Weekend					
	Weekday					340 ± 32
1986	Weekend	454				340 ± 32
	Weekday					454
						419
Sand seatrout						
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					
Spanish mackerel						
1983	Weekend					
	Weekday	578		603 ± 8		588 ± 227
1984	Weekend					
	Weekday					588

Table K.12. (Cont'd.)

Species Year	Day type	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spanish mackerel (Cont'd.)						
1985	Weekend				714	
	Weekday	729				724
1986	Weekend					
	Weekday	416				416
Spotted seatrout						
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					
Vermilion snapper						
1983	Weekend					
	Weekday					
1984	Weekend					
	Weekday					
1985	Weekend					
	Weekday					
1986	Weekend					
	Weekday					

Table K.12. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
All species combined ^a					
1983					
Weekend	738 ± 236		858 ± 32	360 ± 11	649 ± 151
Weekday		768 ± 363	1074 ± 66	622 ± 49	1058 ± 66
1984					
Weekend		756	914	628	857 ± 130
Weekday			862 ± 3	567 ± 29	827 ± 6
1985					
Weekend				479 ± 92	479 ± 92
Weekday	552		895	736 ± 63	688 ± 48
1986					
Weekend		2090		657 ± 7	662 ± 10
Weekday	766 ± 25	795	751 ± 167	483 ± 57	626 ± 97

^aIncludes "other" species.

Table K.13. Percent composition of "other" species caught by party-boat fishermen in the EEZ by area, season and day type (1983-1987).

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>				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	
	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	
1984-85 High use Weekend	Dolphins sp.	Family <u>Coryphaenidae</u>						
	Dolphin	<u>Coryphaena hippurus</u>			12.50		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	28.57	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>						
Dolphin		<u>Coryphaena hippurus</u>			83.33		54.35	
Little tunny		<u>Euthynnus alletteratus</u>			6.67	100.00	39.13	
Shark sp.								
Blacktip shark		<u>Carcharhinus limbatus</u>			3.33		2.17	

Table K.13. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
1985-86	Low use Weekend		Little tunny	<u>Euthynnus alletteratus</u>				100.00	100.00	
			Blackfin tuna	<u>Thunnus atlanticus</u>				5.88	4.35	
	High use Weekend		Little tunny	<u>Euthynnus alletteratus</u>				88.24	65.22	
			Sea basses sp. Rock hind	<u>Family Serranidae</u> <u>Epinephalus adscensionis</u>			8.33	5.88	2.17 4.35	
		Sharks sp. Blacktip shark	<u>Carcharhinus limbatus</u>			8.33		2.17		
		Sheepshead	<u>Archosargus probatocephalus</u>			90.91		21.74		
	1986-87	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. Dolphin	<u>Family Coryphaenidae</u> <u>Coryphaena hippurus</u>		23.08			20.00	
		Greater amberjack	<u>Seriola dumerili</u>	100.00				11.43		
		Little tunny	<u>Euthynnus alletteratus</u>		61.54			44.44		
		Sharks sp. Blacktip shark	<u>Carcharhinus limbatus</u>				5.56	2.86		
		Silky shark	<u>Carcharhinus falciformes</u>		7.69			2.86		
High use Weekend			Little tunny	<u>Euthynnus alletteratus</u>				100.00	92.32	
			Sailfish	<u>Istiophorus platypterus</u>		100.00			7.69	
Weekday		Atlantic bonita	<u>Sarda sarda</u>					2.38		
		Blue runner	<u>Caranx crysos</u>		27.27			13.79		
		Bluefish	<u>Pomatomis saltatrix</u>		36.36			9.52		
		Crevalle Jack	<u>Caranx hippos</u>		9.09			3.18		
		Dolphins sp. Dolphin	<u>Family Coryphaenidae</u> <u>Coryphaena hippurus</u>		18.18			3.18		
					80.00		94.44	2.30		

Table K.13. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Low use Weekend	Great barracuda	<u>Sphyræna barracuda</u>	9.09			5.75	0.79
	Greater amberjack	<u>Seriola dumerili</u>				78.16	3.97
	Little tunny	<u>Euthynnus alletteratus</u>					53.97
	Blue runner	<u>Caranx crysos</u>				8.30	1.90
	Creville Jack	<u>Caranx hippos</u>				8.30	1.90
	Dolphins sp.	Family <u>Coryphaenidae</u>					
	Pompano dolphin	<u>Coryphaena equisetis</u>		100.00			76.90
	Little tunny	<u>Euthynnus alletteratus</u>				83.30	19.20

Table K.14. Percent composition of the annual residential origin of party-boat fishermen-trips in the EEZ by area (1983-87). 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
1986-87	100	0	0	0
Matagorda				
1983-84	30	20	50	0
1984-85	0	100	0	0
1985-86				
1986-87	67	0	33	0
Corpus Christi				
1983-84	4	13	66	16
1984-85	9	24	60	7
1985-86	11	17	54	17
1986-87	0	0	100	0
Lower Laguna Madre				
1983-84	17	26	57	0
1984-85	26	0	61	13
1985-86	10	22	54	15
1986-87	7	0	76	17
Coastwide				
1983-84	18	16	57	9
1984-85	13	21	57	9
1985-86	17	18	50	15
1986-87	31	0	60	9

Table K.15. Percent composition of the residential origin of party-boat fishermen-trips in the EEZ during the high-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	Non-coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-coastal counties
Galveston								
1983	100	0	0	0				
1984								
1985					100	0	0	0
1986					100	0	0	0
Matagorda								
1983	25	0	0	75	33	33	0	33
1984	0	100	0	0				
1985								
1986	20	0	0	80	57	0	0	43
Corpus Christi								
1983	6	9	14	71	3	18	18	61
1984	3	26	3	69	15	21	12	52
1985	21	21	0	58	0	12	38	50
1986								100
Lower Laguna Madre								
1983	12	24	0	65	22	28	0	50
1984	20	0	0	80	21	0	0	79
1985	18	29	0	53	4	17	25	54
1986	0	0	25	75	2	0	11	87
Coastwide								
1983	23	11	8	59	12	23	11	54
1984	4	33	2	61	17	13	8	62
1985	19	25	0	56	15	13	26	46
1986	34	18	3	46	30	14	6	49

Table K.16. Percent composition of the residential origin of party-boat fishermen-trips in the EEZ during the low-use season by area and day type (1983-1987). 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						
1986-87						
Matagorda						
1983-84						
1984-85						
1985-86						
1986-87	100	0	0			0
Corpus Christi						
1983-84						
1984-85						
1985-86						
1986-87						
Lower Laguna Madre						
1983-84						
1984-85	43	0	0			57
1985-86						
1986-87	50	0	0			50
Coastwide						
1983-84						
1984-85	43	0	0			57
1985-86						
1986-87	82	0	0			18

Table K.17. Mean fishing-party size (No. of fishermen) and mean trip length (h) for party-boat fishermen in the EEZ by area, season and day type (1983-1987). 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		
Calveston										
1983-84	5.0				5.0	8.0			8.0	
1984-85										
1985-86		6.0			6.0		11.0		11.0	
1986-87		4.0			4.0		10.3		10.3	
Matagorda										
1983-84	4.0	6.0			5.0	4.0	8.5		6.2	
1984-85	6.0				6.0	10.5			10.5	
1985-86										
1986-87	5.0	7.0		11.0	7.5	6.0	8.5	11.0	8.5	
Corpus Christi										
1983-84	4.4	4.1			4.2	7.8	7.9		7.8	
1984-85	5.8	3.0			4.0	8.2	8.0		8.1	
1985-86	4.8	3.2			3.9	8.5	6.6		7.4	
1986-87		4.3			4.3		9.8		9.8	
Lower Laguna Madre										
1983-84	3.4	3.0			3.2	8.1	12.8		10.6	
1984-85	5.0	4.8	7.0		5.2	8.5	5.2	6.0	5.9	
1985-86	4.2	3.4			3.7	6.9	5.8		6.2	
1986-87	4.0	4.6	6.0		4.6	6.0	6.0	10.0	6.4	
Coastwide										
1983-84	4.1	3.8			4.0	7.7	9.9		8.7	
1984-85	5.8	3.5	7.0		4.4	8.6	7.3	6.0	7.7	
1985-86	4.5	3.5			3.9	7.7	6.5		7.0	
1986-87	4.3	4.7	8.5		5.0	6.0	7.7	10.5	7.7	

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