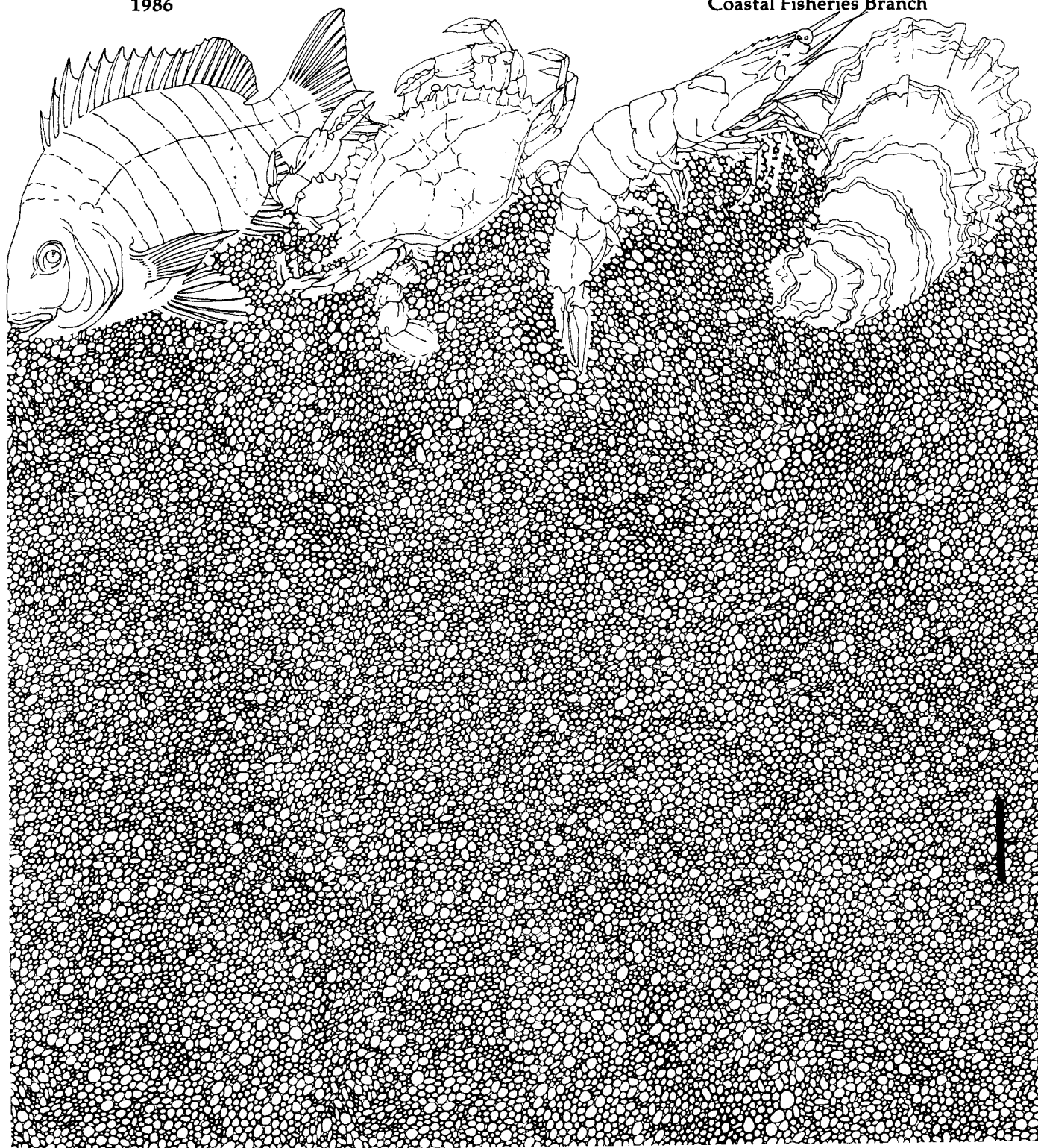


Trends in Finfish Landings by Sport Boat Fishermen in Texas Marine Waters, May 1974-May 1985

by Hal R. Osburn and Maury O. Ferguson

Management Data Series Number 90
1986

Texas Parks and Wildlife Department
Coastal Fisheries Branch



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ACKNOWLEDGEMENTS

We would like to thank each member of the Sport Harvest Program who so conscientiously collected all scheduled samples. A special thank you is due each of the team leaders--D. Trimm, M. Weixelman, P. Campbell, K. Spiller and G. Standard--without whose assistance the program would not have been successfully completed. Al Green was responsible for designing the basic survey. Thanks go to Tom Heffernan, Lynn Benefield, Al Green, Ed Hegen, Larry McEachron, C. E. Bryan and Gary Saul for editing the manuscript.

This study was jointly funded by the Texas Parks and Wildlife Department, the U.S. Department of Commerce, NOAA, National Marine Fisheries Service under P.L. 88-309 and the U.S. Department of Interior, Fish and Wildlife Service under DJ 15.605 (Project F-34-R).

TRENDS IN FINFISH LANDINGS BY SPORT-BOAT FISHERMEN
IN TEXAS MARINE WATERS, MAY 1974-MAY 1985

ABSTRACT

Since May 1974 private-boat fishermen have been routinely interviewed at boat-access sites. Party and headboat fishermen have been routinely monitored since May 1983 by on-site and on-board surveys. The total estimated sport-boat fishing pressure and landings of finfish in 1984-85 were 5,048,500 man-h and 2,168,100 fish, respectively. From 1983-84 to 1984-85 pressure decreased 28% and landings decreased 37%. Sport-boat fishing in bays and passes accounted for 86% of the pressure and 74% of the landings in 1984-85. In the same year, private-boat fishermen exerted 87% of the pressure and landed 72% of the fish. The high-use season (15 May-20 November) accounted for 71% of the pressure and 78% of the 1984-85 landings. Forty percent of the 6-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 37% of the 6-year mean annual coastwide private-boat bay and pass landings. Catch rates for spotted seatrout caught by private-boat fishermen declined 60% from 1983-84 to 1984-85. The routine sport-boat fishery monitoring program detected a reduction in some finfish landings following the coastwide fish kill in December 1983 and January 1984.

INTRODUCTION

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

Landings data from sport-boat fishermen are required to assess the needs for and the impact of saltwater fishing regulations. Economic and sociologic information can also be inferred from landings data to allow for management based on the concept of 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; McEachron et al. 1984; Osburn and Ferguson 1985a, 1985b). 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.

Previous reports have included only weekend estimates for private-boat fishing in Texas bays. Estimates for private and charter boat fishing in passes, the Texas territorial sea and the U.S. Fishery Conservation zone off Texas included both weekend and weekday activity. This report includes weekday estimates for private-boat fishing in Texas bays for all years for which data are available (1974-1976 and 1979-1985).

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 major holidays (New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day) were classified as weekend days.

Areas fished were defined as:

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

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

Private-boat fishing was defined as fishing from a privately owned or rental boat without a guide. Private-boat fishing includes tournament fishing. 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. Commercial fishing estimates are not included in this report.

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

Private-boat Fishing

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

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

Department personnel were stationed at randomly selected boat-access sites on randomly selected weekend and weekday days to collect landings data by interviewing fishing parties that had completed a trip. Interview sites were selected randomly in proportion to mean boat trailer and wet-slip counts obtained during the previous 3 years (TPWD unpublished data). Therefore, boat-access sites with high fishing activity (i.e. mean trailer and wet-slip counts) were surveyed more often than sites with low fishing activity. Interviews were conducted from 1000 to 1800 based on diel 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 would be maximized (McEachron et al. 1983). Estimates have been adjusted by the percent of missed angler interviews occurring prior to 1000 and after 1800.

Interviewers recorded species (Galloway et al. 1972, Hoese and Moore 1977, Robins et al. 1980) and number of all fish brought to shore 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 (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 (50 miles) 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 of 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 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 but the objective is no longer to estimate the total pressure occurring at each site but to estimate what proportion of the total pressure is occurring at each site. This can be accomplished with fewer roves during a short time period (0800-1230) when there is little change in boating activity. This reduces the use of the automobile from 16% to 33% of the previous requirements depending on the actual rove schedule

adopted. A comparison of estimates made from selecting survey sites as strictly random samples and by selecting survey sites in proportion to the activity that occurs at each site was made by McEachron and Green (1984).

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

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

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

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

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

where n = the total number of days sampled,

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

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

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

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

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 (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:

$$\bar{X}_1 = \frac{3X_2}{2}$$

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

where 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. Six-year mean (1979-80 to 1984-85) were used on figures showing percent distributions since methods were consistent and weekday landings were available.

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

For the purpose of making annual coastwide landings and fishing pressure comparisons, the data of 1974-75 and 1975-76 have been combined and are referred to as 1974-76. Four of the Texas bay systems were surveyed in 1974-75 (Galveston, San Antonio, Aransas and the upper Laguna Madre) and three were surveyed in 1975-76 (Matagorda, Corpus Christi and the lower Laguna Madre). From 1976-77 through 1984-85 all bay systems were surveyed each year.

Party-boat Fishing

From May 1983 to May 1985 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. 1984). Interview and estimation procedures for May 1983-May 1985 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 proportional to their historical fishing activity (Osburn and Ferguson 1985b). Prior to May 1984-May 1985 surveys, the historical fishing activity data used did not include party-boats. If party-boat pressure is distributed in a different pattern by site than private sport-boat fishing, then the precision of the party-boat estimates in this report will be biased. Estimation of landings and pressure in this report relied on calculation of a mean daily landings rate adjusted by the relative proportion of activity at a site. Earlier estimates multiplied landings rates in man-h by total trips, mean trip time and mean people per trip.

Headboat Fishing

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). Headboats were stratified according to area fished:

1. inshore headboats fished exclusively in bays and passes, and
2. offshore headboats fished exclusively in the Gulf of Mexico (TTS and/or FCZ).

From May 1983 to May 1985, inshore 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.

From May 1983 to May 1984, offshore 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/Freeport area), Corpus Christi (Aransas Bay/Corpus Christi Bay, upper Laguna Madre) and lower Laguna Madre areas. During the 1984 high-use season the same number of surveys were scheduled to be conducted in each area, however, all offshore headboat surveys were terminated 10 September 1984. Offshore headboat surveys were terminated since the 1983-84 survey results indicated that 99% of offshore headboat trips were made to the FCZ which is under the jurisdiction of the Gulf of Mexico Fishery Management Council. This

action was recommended by Osburn and Ferguson (1985a) to provide for increased efficiency in satisfying TPWD mandated responsibilities in case of a man-power shortage. No offshore headboat surveys were conducted during the low-use season of 1984-1985; therefore, low-use season pressure and landings estimates for offshore headboats are not included in this report. All previous estimates can be found in Osburn and Ferguson (1985a).

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. One gulf headboat operator refused to cooperate on the intercept portion of the survey but did provide information on the number of trips made each survey day.

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

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

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

\bar{h}_i = the mean number of fish landed per day 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 stratum 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 previous survey estimates although some difference in seasons does exist. Equations used in the present survey were based on mean daily catch rates. Previous estimates were based on trip catch rates but took into account the number of people per trip and mean number of trips per day (McEachron 1984). Previously the total number of trips made during a specified time period was determined by a census of headboat operators.

RESULTS

Sport-boat fishing in Texas saltwater decreased 27% and landings decreased 37% from 1983-84 to 1984-85. Sport-boat fishermen spent 5,048,500 man-h to land 2,168,100 fish during 1984-85 (Table 1). Pressure and landings declined in all areas fished and all strata of sport-boat fishing. Bay and pass sport-boat fishing accounted for 86% of the pressure and 74% of the landings in 1984-85. In 1984-85 fishing in the TTS accounted for only 5% of the pressure and 2% of the landings while FCZ fishing accounted for 9% of the pressure and 23% of the landings. Private-boat fishermen exerted 87% of the total pressure and landed 72% of the fish in 1984-85. Party-boat fishermen accounted for only 3% of both pressure and landings. Headboat fishermen exerted 9% of the pressure and landed 24% of the fish even though low-use season estimates were not available. In 1983-84, when low-use season estimates were available,

headboats accounted for 6% of the pressure and 15% of the landings. In 1984-85, 71% of the pressure and 78% of the landings occurred during the high-use season.

Bays and Passes

Private-boat fishing

Since 1974, over 106,000 interviews have been conducted with private-boat fishermen fishing in Texas bays and passes (Appendix D, Tables D.1-D.2). Annual fishing pressure had generally increased until 1984-85 (Fig. 1) (Appendix D, Table D.3). This increase is also reflected in license sales and boat registrations (Appendix E, Tables E.1-E.2). Coastwide annual landings generally declined from a high of 5,506,600 fish in 1974-76 to a low of 1,469,900 fish in 1984-85 (Fig. 1) (Appendix D., Table D.4). This pattern was reflected during the high-use season but not during the low-use season (Fig. 2) (Appendix D., Tables D.5-D.8). High-use season weekend pressure generally increased since 1979-80 until a dramatic decrease in 1984-85; landings showed a steady decline except in 1982-83 (Fig. 2) (Appendix D, Tables D.3, D.5). High-use season weekday pressure was similar in all years except for an increase in 1980-81 and a decrease in 1984-85 while landings have generally declined except for 1980-81 (Fig. 2) (Appendix D, Tables D.3, D.6). Low-use season pressure and landings on both weekends and weekdays have remained stable since 1976-77 (Fig. 2) (Appendix D, Tables D.3., D.7-D.8). Based on 6-year means, fishing on high-use season weekdays accounted for one-third of the annual coastwide pressure but almost one-half of the landings (Fig. 3). Low-use season fishing accounted for only 26% and 20% of the mean annual pressure and landings, respectively.

Forty percent of the mean annual coastwide pressure and 44% of the landings occurred in the Galveston Bay system (Fig. 4). The San Antonio Bay system accounted for the smallest percentage of the mean annual coastwide pressure and landings. The Galveston Bay system had the greatest decline in annual pressure and landings from 1974 to 1985 (Fig. 5). Other bay systems had variable trends in landings and pressure but the magnitude of changes was small compared to the Galveston Bay system (Figs. 6-11).

Spotted seatrout (Cynoscion nebulosus) comprised 39% of the mean annual coastwide landings and together with sand seatrout (C. arenarius) accounted for nearly 57% of the private-boat landings from bays and passes (Fig. 12). The Galveston Bay system had the highest percentage of the mean annual coastwide landings of Atlantic croaker (Micropogonias undulatus), black drum (Pogonias cromis), red drum (Sciaenops ocellatus), sand seatrout, sheepshead (Archosargus probatocephalus) southern flounder (Paralichthys lethostigma) and spotted seatrout while the Corpus Christi Bay system had the highest percentage of gafftopsail catfish (Bagre marinus) (Fig. 13).

Annual coastwide landings of all finfish combined have decreased by 73% since 1974-76 (Appendix D, Table D.4). Decreases in landings of individual species since 1974-76 have ranged from 11% for sheepshead to 88% for spotted seatrout (Figs. 14-21). A steady decrease in landings

since 1974-76 occurred for Atlantic croaker (73%), gafftopsail catfish (85%), sand seatrout (59%) and spotted seatrout (88%). Landings of black drum, red drum, sheepshead and southern flounder have not steadily increased or decreased although landings of these species in 1984-85 were all lower than in 1974-76. Landings by season and day type show patterns similar to those of the annual estimates (Appendix D, Tables D.5-D.8).

Annual coastwide mean catch rates for all species combined declined 67% from 1.08 fish/man-h in 1976-77 to 0.36 fish/man-h in 1984-85 (Appendix D, Table D.9). None of the reported species had a catch rate in 1984-85 higher than that of 1974-76 (Figs. 14-21). Catch rates for Atlantic croaker declined from 0.22 fish/man-h in 1977-78 to 0.06 fish/man-h in 1984-85 (Fig. 14). Black drum catch rates ranged from 0.02 to 0.05 fish/man-h until decreasing to 0.01 fish/man-h in 1983-84 and 1984-85 (Fig. 15). Catch rates for gafftopsail catfish ranged from 0.02 to <0.01 in all years (Fig. 16). Red drum catch rates decreased from 0.05 fish/man-h in 1974-76 to 0.01 fish/man-h in 1983-84 but increased to 0.02 fish/man-h in 1984-85 (Fig. 17). Catch rates for sand seatrout and sheepshead showed no general pattern of increase or decrease (Figs. 18-19). Southern flounder catch rates remained stable at 0.02 to 0.04 fish/man-h from 1980-81 to 1984-85 after reaching a high of 0.12 fish/man-h in 1979-80 (Fig. 20). Spotted seatrout catch rates decreased 60% from 0.47 fish/man-h in 1976-77 to 0.19 fish/man-h in 1979-80, then increased to 0.30 fish/man-h the next year but decreased again to a low of 0.08 fish/man-h in 1984-85 (Fig. 21). Catch rates for individual species and all finfish combined by season and day type are presented in Appendix D, Tables D.10-D.13.

Mean weights and total lengths for individual species varied by year, season and day type (Figs. 14-21) (Appendix D, Tables D.14-D.21). Both red drum and spotted seatrout have shown an increase in size from 1979-80 to 1984-85 (Figs. 17 and 21). The annual coastwide mean weights increased 155% for red drum and 57% for spotted seatrout in those years.

Southern kingfish (Menticirrhus americanus) was the predominant species included in the "other" species category (Appendix D, Table D.22). Silver perch (Bairdiella chrysura), pinfish (Lagodon rhomboides), pigfish (Orthopristis chrysoptera), and hardhead catfish (Arius felis) were also predominant species included in the "other" category.

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

Party-boat fishing

Since 1983, nearly 1,100 party-boat fishermen fishing in Texas bays and passes have been interviewed (Appendix F, Table F.1). Annual pressure decreased 49% from 1983-84 (249,900 man-h) to 1984-85 (127,600 man-h) while landings decreased 74% (261,800 to 67,600 fish) (Appendix F, Tables F.2-F.3). Spotted seatrout comprised 74% of the landings in each year.

The majority of coastwide landings occurred during the high-use season and on weekdays (Appendix F, Tables F.4-F.5).

Mean annual coastwide catch rates decreased from 1983-84 to 1984-85 for all species except red drum (Appendix F, Table F.6). Catch rates by season and day type are presented in Appendix F, Tables F.7-F.8. Comparable annual pressure and landings estimates prior to May 1983 were not available, however, mean catch rates for selected species for summer months (June-August) during 1979-1984 are presented in Appendix F, Table F.9. Coastwide mean catch rates during the summer for all species combined ranged from 0.58 fish/man-h in 1984 to 1.91 fish/man-h in 1982 (Appendix F, Table F.9). The annual coastwide mean weight and total length of red drum increased while that of spotted seatrout remained stable from 1983-84 to 1984-85 (Appendix F, Tables F.10, F.13). Mean weights and total lengths by species, bay system, year, season and day type are presented in Appendix F, Tables F.11-F.12, F.14-F.15. Species included in the "other" species category were primarily ladyfish (Elops saurus), southern kingfish, crevalle jack (Caranx hippos), and tripletail (Lobotes surinamensis) (Appendix F, Table F.16).

The highest percentage of party-boat fishermen came from non-coastal counties (40-47%) (Appendix F, Tables F.17-B.19). The annual coastwide mean fishing-party size (3.4-3.6 people) and mean trip length (5.7-6.1 h) remained similar from 1983-84 to 1984-85 (Appendix F, Table F.20).

Headboat fishing

Since 1983, over 5,200 headboat fishermen fishing in Texas bays and passes have been interviewed (Appendix G, Table G.1). Annual coastwide pressure decreased 29% from 1983-84 (188,900 man-h) to 1984-85 (134,000 man-h) while landings decreased 43% (131,300 to 74,600 fish) (Appendix G, Tables G.2-G.3). Sand seatrout comprised 58% of the landings in 1983-84 and 65% in 1984-85. The majority of coastwide landings occurred during the high-use season (Appendix G, Tables G.4-G.5).

Annual coastwide mean catch rates decreased from 1983-84 (0.70 fish/man-h) to 1984-85 (0.56 fish/man-h) for all species combined (Appendix G, Table G.6). Comparable annual estimates of pressure and landings prior to May 1983 were not available, however, mean catch rates for selected species during 1978-1985 are presented in Appendix G, Table G.9. Coastwide mean catch rates in the high-use season decreased since 1978 but increased in the low-use season. The annual coastwide mean weight and mean total length of sand seatrout has remained stable during the last 2 years (Appendix G, Tables G.10, G.13). Mean catch rates, mean weights and mean total lengths by species, bay system, year, season, and day type are presented in Appendix G, Tables G.7-G.8, G.11-G.12, and G.14-G.15. "Other" species included predominantly southern kingfish, silver perch, red snapper (Lutjanus campechanus), and blacktip shark (Carcharhinus limbatus) (Appendix G, Table G.16).

The majority (75-76%) of headboat fishermen in 1983-84 and 1984-85 were from adjacent coastal or non-coastal counties (Appendix G, Tables G.17-G.19). The coastwide mean fishing-party size was highest on high-use season weekend days in both years (34.4-41.5 people) (Appendix G, Table

G.20). The annual coastwide mean fishing time decreased from 1983-84 (3.0 h) to 1984-85 (2.4 h).

Texas Territorial Sea

Private-boat fishing

Since 1982, nearly 4,200 private-boat fishermen fishing in the TTS have been interviewed (Appendix H, Table H.1). Annual coastwide pressure decreased 52% from 1983-84 (313,600 man-h) to 1984-85 (149,800 man-h) (Appendix H, Table H.2). Annual coastwide landings increased 36% from 1983-84 (32,700 fish) to 1984-85 (44,600 fish) but have decreased 58% since 1982-83 (107,300 fish) (Appendix H, Table H.3). Sand seatrout comprised 48% of the landings in 1984-85. Nearly half of the 1984-85 coastwide landings occurred during the low-use season (Appendix H, Tables H.4-H.5).

Annual coastwide mean catch rates for all species combined increased from 1983-84 (0.10 fish/man-h) to 1984-85 (0.30 fish/man-h) (Appendix H, Table H.6). The annual coastwide mean weight and mean total length of sand seatrout has remained stable during the last 2 years (Appendix H, Tables H.9, H.12). Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix H, Tables H.7-H.8, H.10-H.11, and H.13-H.14. Primary species included in the "other" category varied by year, season and day type (Appendix H, Table H.15).

The majority (77-84%) of private-boat fishermen in all years were from adjacent coastal or non-coastal counties (Appendix H, Tables H.16-H.18). The annual coastwide mean fishing-party size (3.0-3.1 people) and mean trip length (5.9-6.2 h) remained stable (Appendix H, Table H.19).

Party-boat fishing

Since 1983, 135 party-boat fishermen fishing in the TTS have been interviewed (Appendix I, Table I.1). Annual coastwide pressure decreased 66% from 1983-84 (46,500 man-h) to 1984-85 (15,900 man-h) while landings decreased 86% (20,700 to 2,900 fish) (Appendix I, Tables I.2-I.3). King mackerel (*Scomberomorus cavalla*) comprised 46% and 45% of the landings in 1983-84 and 1984-85, respectively. Nearly 45% of the annual coastwide landings occurred in the low-use season in 1984-85, however, no pressure or landings occurred in the low-use season in 1983-84 (Appendix I, Tables I.4-I.5).

Annual coastwide mean catch rates decreased from 1983-84 to 1984-85 for king mackerel (0.20 to 0.08 fish/man-h) and for all species combined (0.45 to 0.18 fish/man-h) (Appendix I, Table I.6). No comparable annual estimates of pressure or landings were available prior to May 1983, however, mean catch rates for selected species for summer months (June-August) from the entire Gulf of Mexico during 1979-1984 are presented in Appendix I, Table I.9. Coastwide mean catch rates during the summer for all species combined ranged from 0.21 fish/man-h in 1984 to 0.69 fish/man-h in 1981. The annual coastwide mean weight and mean total length of king mackerel decreased from 1983-84 (9.05 kg/fish and 985 mm/fish) to 1984-85

(5.90 kg/fish and 860 mm/fish) (Appendix I, Table I.10, I.13). Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix I, Tables I.7-I.8, I.11-I.12 and I.14-I.15. "Other" species included primarily Gulf kingfish (Menticirrhus littoralis), Crevalle jack, blacktip shark and little tunny (Euthynnus alletteratus) (Appendix I, Table I.16).

Non-coastal counties were the residential origin of the highest percentage of party-boat fishermen each year (43-64%) (Appendix I, Tables I.17-I.19). The annual coastwide mean fishing-party size increased from 3.4 people in 1983-84 to 4.5 people in 1984-85 while mean trip length decreased from 6.8 h to 5.5 h (Appendix I, Table I.20).

Headboat fishing

Since 1983, 239 headboat fishermen fishing in the TTS have been interviewed (Appendix J, Table J.1). Despite the lack of survey data in the 1984-85 low-use season, the annual coastwide pressure increased from 2,700 man-h in 1983-84 to 66,900 man-h in 1984 (Appendix J, Table J.2). Coastwide high-use season landings increased from 800 fish in 1983 to 5,600 fish in 1984 (Appendix J, Table J.3). King mackerel accounted for 62% of the 1984 high-use season landings. Mean catch rates, mean weights and mean total lengths by species, area, year and day type for the high-use season are presented in Appendix J, Tables J.4-J.6. "Other" species included crevalle jack, little tunny, spinner shark (Carcharhinus falciformes), dusky shark (Carcharhinus obscurus) and sandbar shark (Carcharhinus plumbeus) (Appendix J, Table J.7).

Over 84% of headboat fishermen in the TTS resided in non-coastal counties in 1983-84 (Appendix J, Table J.8). Between 61-79% of the high-use season fishermen also resided in non-coastal counties (Appendix J, Table J.9). No headboat fishermen fishing the TTS were interviewed during the low-use season 1983-84. Mean fishing-party size and mean fishing time are presented by area, year, season and day type in Appendix J, Table J.10.

Fishery Conservation Zone

Private-boat fishing

Since 1982, over 3,700 private-boat fishermen in the FCZ have been interviewed (Appendix K, Table K.1). Annual coastwide pressure decreased from 260,300 man-h in 1982-83 to 169,700 man-h in 1984-85 (Appendix K, Table K.2). Annual coastwide landings also decreased from 1982-83 (124,800 fish) to 1984-85 (54,300 fish) (Appendix K, Table K.3). Red snapper comprised 31-57% of the annual coastwide landings since 1982. High-use season landings accounted for 59-90% of the annual landings since 1982 (Appendix K, Tables K.4-K.5).

Annual coastwide mean catch rates for all species combined decreased from 1982-83 (0.48 fish/man-h) to 1984-85 (0.32 fish/man-h) (Appendix K, Table K.6). Red snapper annual coastwide mean weight increased from 0.56 kg/fish in 1983-84 to 0.91 kg/fish in 1984-85 (Appendix K, Table K.9). Mean total lengths of red snapper increased from 328 mm/fish to 368

mm/fish from 1983-84 to 1984-85 (Appendix K, Table K.12). Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix K, Tables K.7-K.8, K.10-K.11 and K.13-14. Predominant species included in the "other" category were dolphin (Coryphaena hippurus), black drum, blue runner and bluefish (Pomatomus saltatrix) (Appendix K, Table K.15).

The majority (75-82%) of private-boat fishermen in 1982-83 through 1984-85 were from adjacent coastal or non-coastal counties (Appendix K, Tables K.16-K.18). The annual coastwide mean fishing-party size (3.1-3.2 people) and mean trip length (7.3-7.9 h) have remained stable since 1982 (Appendix K, Table K.19).

Party-boat fishing

Since 1983, 228 party-boat fishermen fishing in the FCZ have been interviewed (Appendix L, Table L.1). Annual coastwide pressure decreased 74% from 1983-84 (117,100 man-h) to 1984-85 (30,000 man-h) while landings decreased 80% (33,500 to 6,600 fish) (Appendix L, Tables L.2-L.3). King mackerel comprised 40% and 64% of the landings in 1983-84 and 1984-85, respectively. From 88% to 100% of the landings occurred in the high-use season in both years (Appendix L, Tables L.4-L.5).

Annual coastwide mean catch rates decreased for all species combined (0.29 to 0.22 fish/man-h) but increased for king mackerel from 1983-84 (0.12 fish/man-h) to 1984-85 (0.14 fish/man-h) (Appendix L, Table L.6). The annual coastwide mean weight of king mackerel remained nearly the same between years (9.49 to 9.90 kg/fish) (Appendix L, Table L.9). No fish were weighed during the low-use season in either year. Mean catch rates, mean weights and mean total lengths by species, area, year, season and day type are presented in Appendix L, Tables L.7-L.8 and L.11-L.12. "Other" species are listed in Appendix L, Table L.13.

Over 51% of party-boat fishermen in the FCZ resided in non-coastal counties in both years (Appendix L, Tables L.14-L.16). The annual coastwide mean fishing-party size increased from 4.0 people in 1983-84 to 4.4 people in 1984-85 while mean trip length decreased from 8.7 h to 7.7 h (Appendix L, Table L.17).

Headboat fishing

Since 1983, nearly 3,700 headboat fishermen fishing in the FCZ have been interviewed (Appendix M, Table M.1). Despite the lack of survey data in the 1984-85 low-use season, the annual coastwide pressure increased from 195,600 man-h in 1983-84 to 272,800 man-h in 1984 (Appendix M, Table M.2). Coastwide high-use season landings increased from 276,900 fish in 1983 to 442,000 fish in 1984 (Appendix M, Table M.3). Red snapper accounted for 64% of the 1984 high-use season landings. Mean catch rates, mean weights and mean lengths by species, area, year, season and day type are presented in Appendix M, Tables M.4-M.8. "Other" species are listed in Appendix M, Table M.9.

Nearly 78% of headboat fishermen in the FCZ lived in adjacent coastal or non-coastal counties in 1983-84 (Appendix M, Table M.10). Out-of-state

fishermen accounted for 19% of the coastwide total. Residential origins of FCZ headboat fishermen are presented by area, year, season and day type in Appendix M, Tables M.11-M.12. Coastwide mean fishing-party size in 1983-84 was highest on high-use season weekend days (45.1 people) while mean fishing time ranged from 2.9 h to 3.7 h by season and day type (Appendix M, Table M.13).

DISCUSSION

As participation in the saltwater fishery has increased over the past 10 years landings have decreased. The apparently large decline in the Texas private-boat landings from 1974-76 to later survey years may have been caused by a decline in fish availability. A decline in catch rates by private-boat fishermen supports this as does the TPWD fisheries-independent monitoring programs (using gill nets, trammel nets and bag seines) that have been conducted in Texas bays since fall 1975 (Matlock and Weaver 1979; Hegen and Matlock 1980; Hegen 1981, 1983; McEachron and Green (In press). These reports indicate a coastwide decline in catch rates for spotted seatrout (which comprise 45-75% of sport landings) and red drum (which comprise 5-10% of sport landings).

To curb the decline in finfish availability, the Texas Legislature and the Texas Parks and Wildlife Department enacted possession and size limit regulations designed to restrict the harvest of spotted seatrout and red drum (Anonymous 1979, 1981, 1983). The stabilization of mean catch rates for red drum prior to 1983-84 and the increase in mean sizes for these two species since 1974-80 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. 1984). Preliminary estimates revealed that over 15 million marine organisms were killed. Of these, approximately 567,000 were spotted seatrout, 285,000 were black drum, 183,000 were sheepshead, 160,000 were Atlantic croaker and 90,000 were red drum. The negative effects of this fish kill on the sport-boat fishery in Texas bays and passes are indicated by the results of the present study. Fishing pressure declined dramatically in all bays except the Galveston Bay 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, In press).

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. 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, 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.

The study presents pressure and landings estimates, as well as the variance associated with those estimates, for all strata of sport-boat fishermen in Texas marine waters. These estimates, however, should be considered minimum estimates since they do not include Sabine Lake fishing and nighttime 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 prep.). There is also a lack of adequate data to monitor the fishing pressure and landings of shore-based fishermen in Texas (e.g. wade/bank, piers, jetties). McEachron et al. (1981) found that these shore-based strata accounted for 33-36% of the coastwide sport-fishing landings. Resolutions of these limitations in the sport-boat monitoring program are currently being pursued, as well as methods to improve survey efficiency.

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Table 1. Sport-fishing pressure (man-h x 1000) and finfish landings (No. x 1000) by strata, area fished and season (1983-1985). ND = no data.

Year Area Strata	High use		Low use		Annual ^b	
	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
Headboat	2.7	0.8	0.0	0.0	2.7	0.8
Total	331.8	46.5	30.9	7.7	362.8	54.2
Fishery Conservation Zone						
Private boat	174.5	73.1	23.4	8.3	197.9	81.3
Party boat	117.1	33.5	0.0	0.0	117.1	33.5
Headboat	161.0	276.9	34.6	114.3	195.6	391.2
Total	452.6	383.5	58.0	122.6	510.6	506.0
Grand Total ^b	5621.8	2886.4	1339.1	551.6	6960.9	3437.9
1984-85						
Bay and Pass						
Private boat	2705.3	1059.9	1376.5	410.1	4081.8	1469.9
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	1167.3	1444.8	444.7	4343.4	1612.1
Territorial Sea						
Private boat	127.3	20.9	22.5	21.9	149.8	44.6
Party boat	11.4	1.5	4.5	1.3	15.9	2.9
Headboat ^a	66.9	5.6	ND	ND	66.9	5.6
Total	205.6	28.0	27.0	23.2	232.6	53.1
Fishery Conservation Zone						
Private boat	159.9	39.4	9.9	11.8	169.7	54.3
Party boat	26.5	5.8	3.5	0.8	30.0	6.6
Headboat ^a	272.8	442.0	ND	ND	272.8	442.0
Total	459.2	487.2	13.4	12.6	472.5	502.9
Grand Total ^b	3563.2	1682.5	1485.2	480.5	5048.5	2168.1

^aSurveys of headboat fishermen in the Gulf of Mexico were discontinued on 10 September 1984.

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

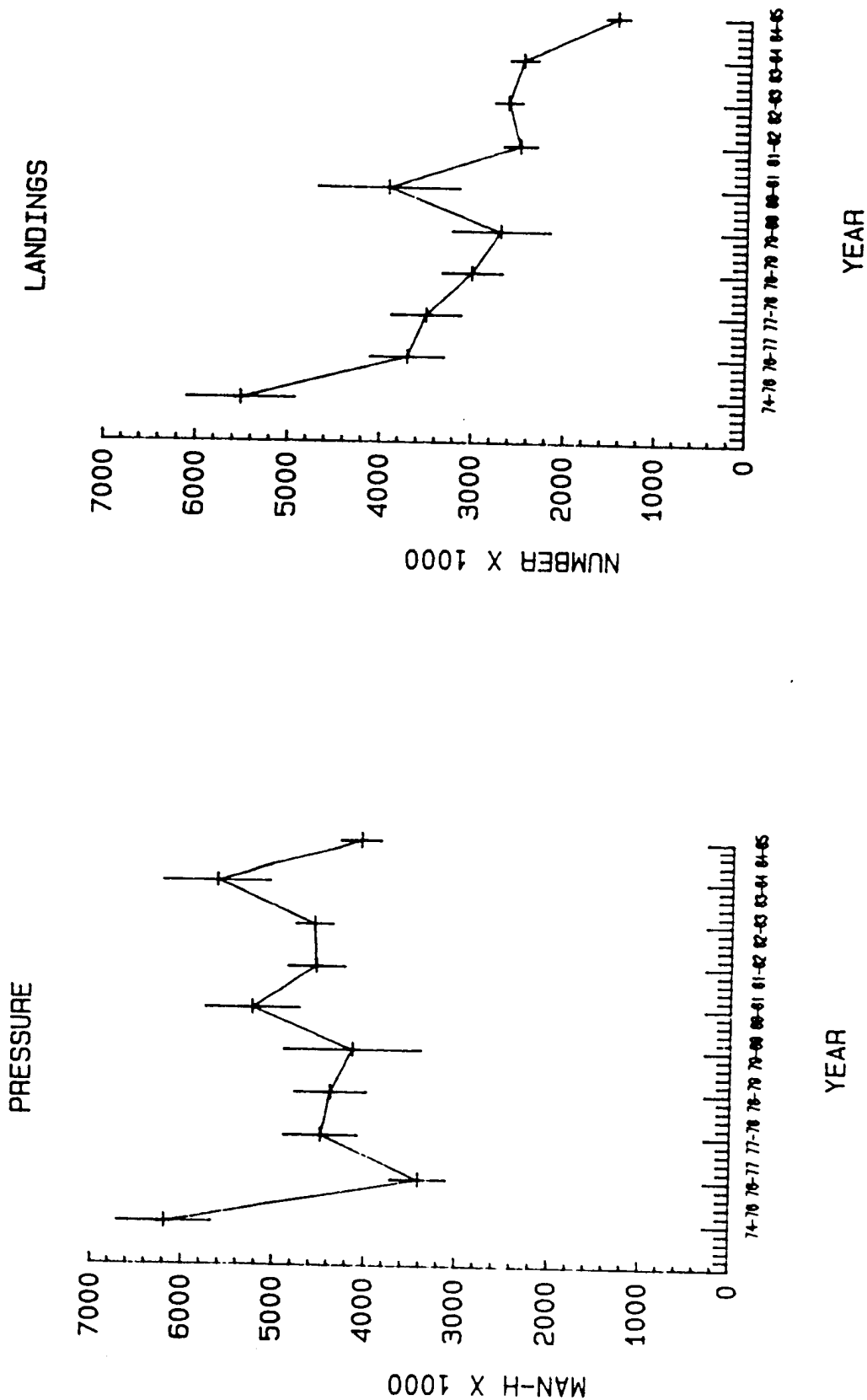


FIGURE 1. COASTWIDE ANNUAL PRIVATE-BOAT FISHING PRESSURE (± 1 SE) AND LANDINGS (± 1 SE) IN TEXAS BAYS AND PASSES, MAY 1974-MAY 1985.

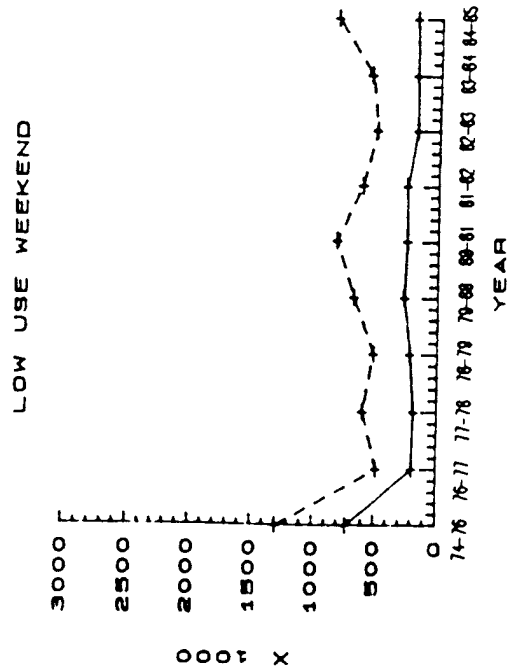
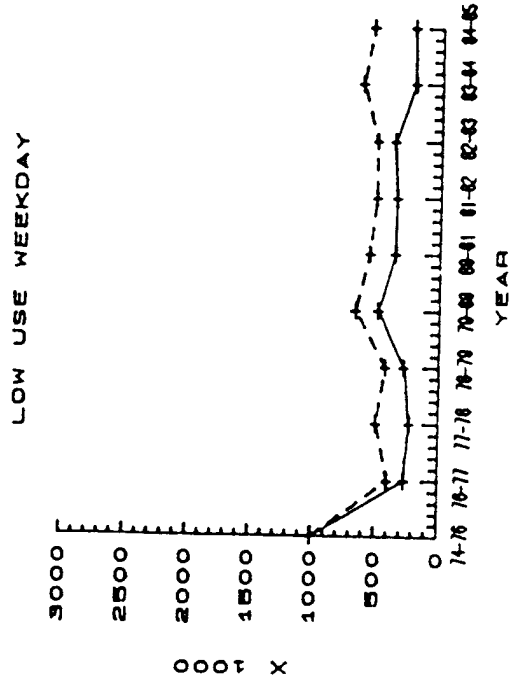
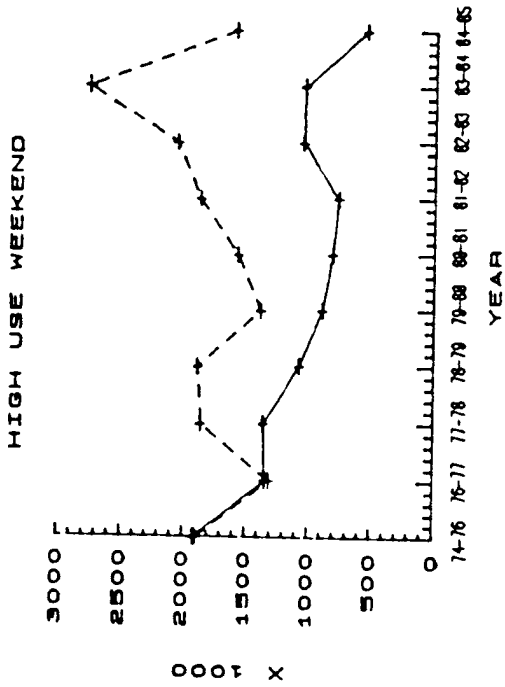
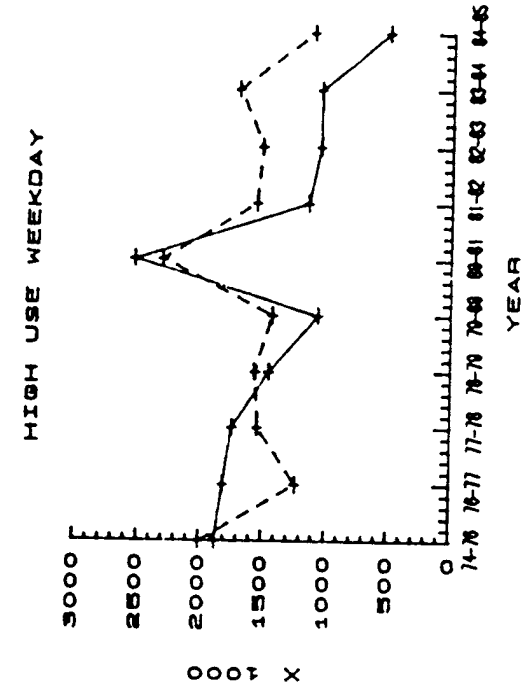


FIGURE 2. COASTWIDE ANNUAL PRIVATE-BOAT FISHING PRESSURE (+---+) IN MAN-H AND LANDINGS (+---) IN NUMBER OF FINFISH FROM TEXAS BAYS AND AND PASSES BY SEASON AND DAYTYPE, MAY 1974-MAY 1985.

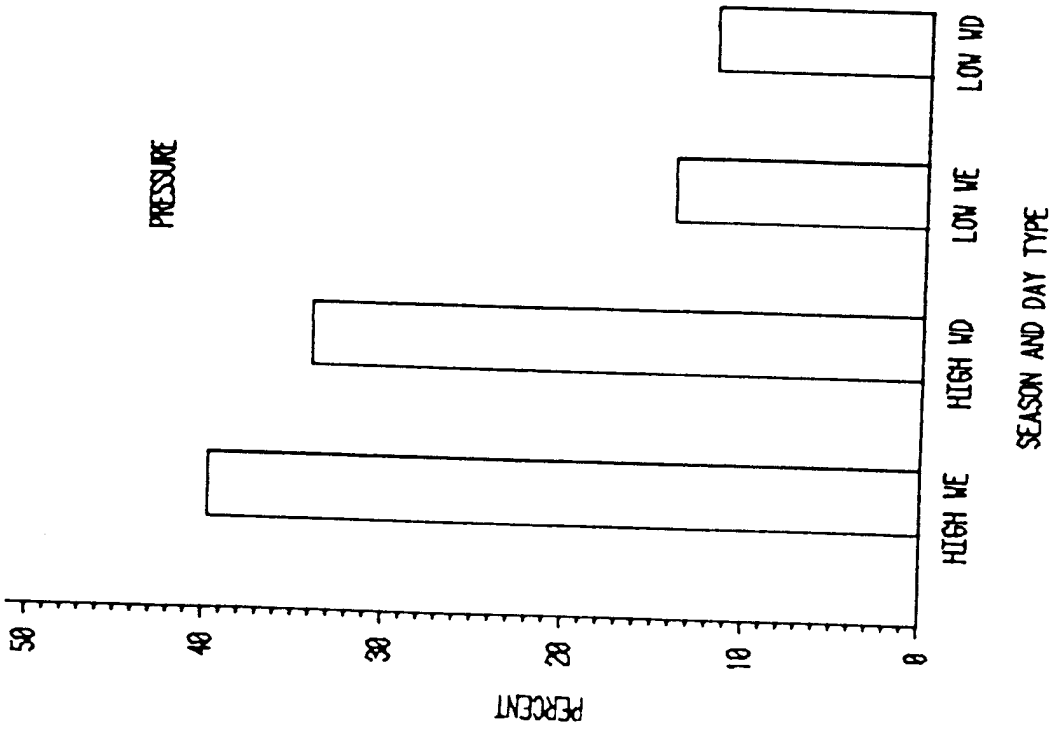
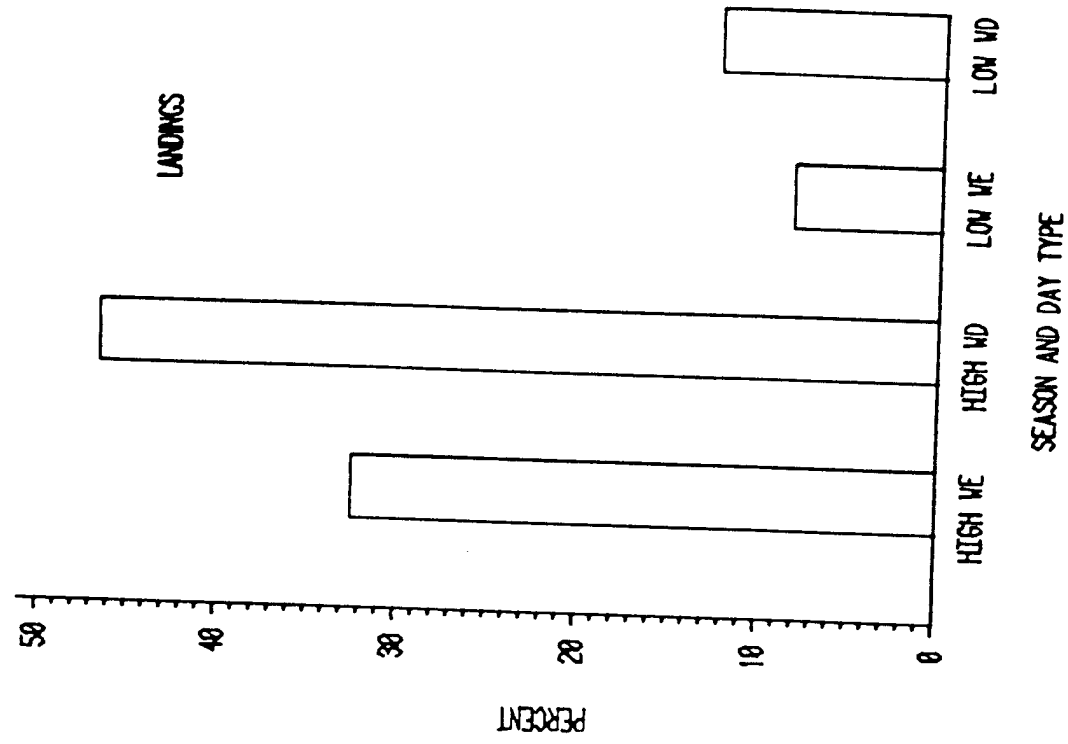


FIGURE 3. PERCENT DISTRIBUTION OF ANNUAL COASTWIDE BAY AND PASS PRIVATE-BOAT FISHING PRESSURE AND LANDINGS BY SEASON AND DAY TYPE, MAY 1979-MAY 1985 (6-YEAR MEAN). WE=WEEKEND DAYS. WD=WEEKDAYS.

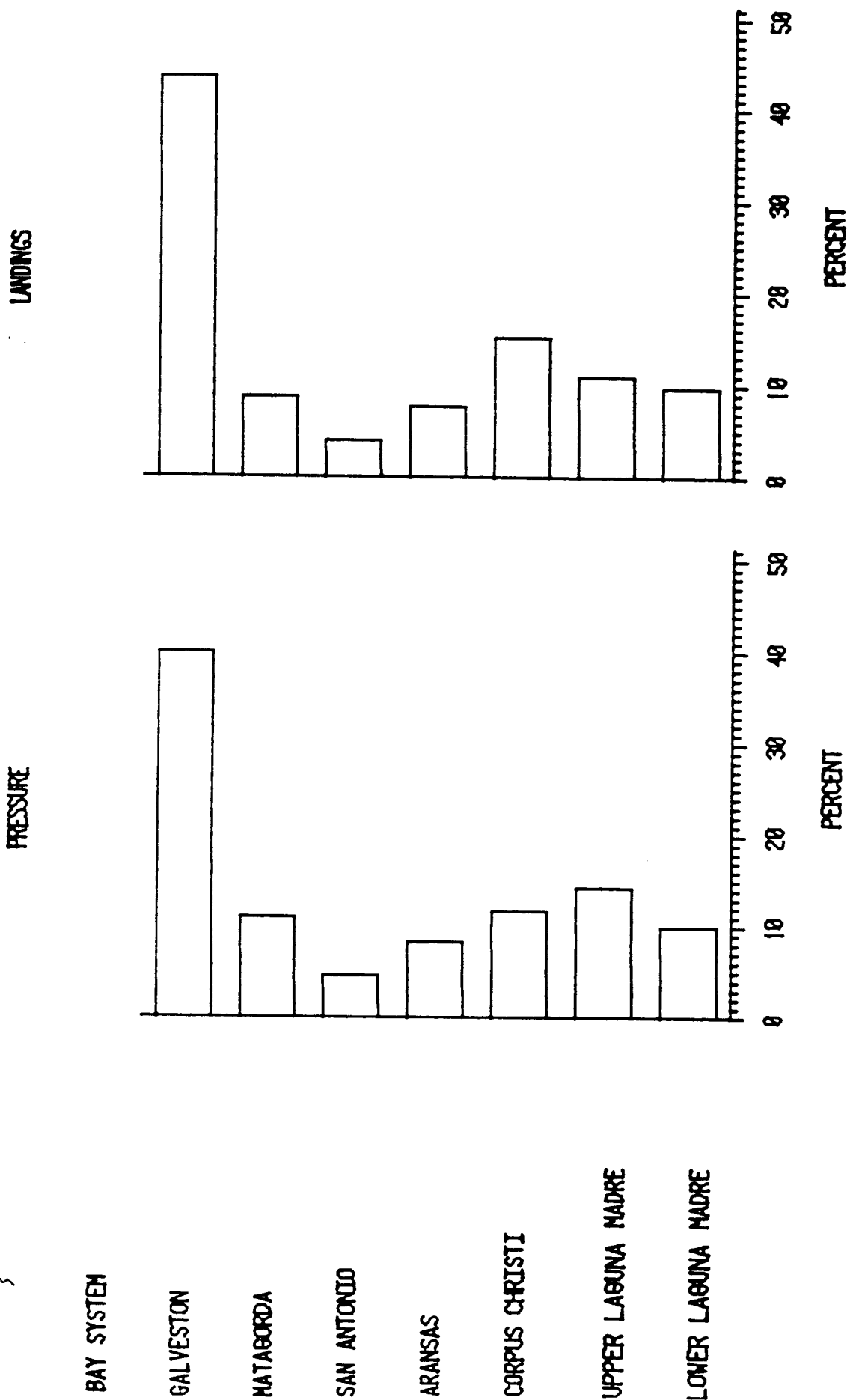


FIGURE 4. PERCENT DISTRIBUTION OF ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE AND LANDINGS BETWEEN BAY SYSTEMS, MAY 1979-MAY 1985, (6-YEAR MEAN).

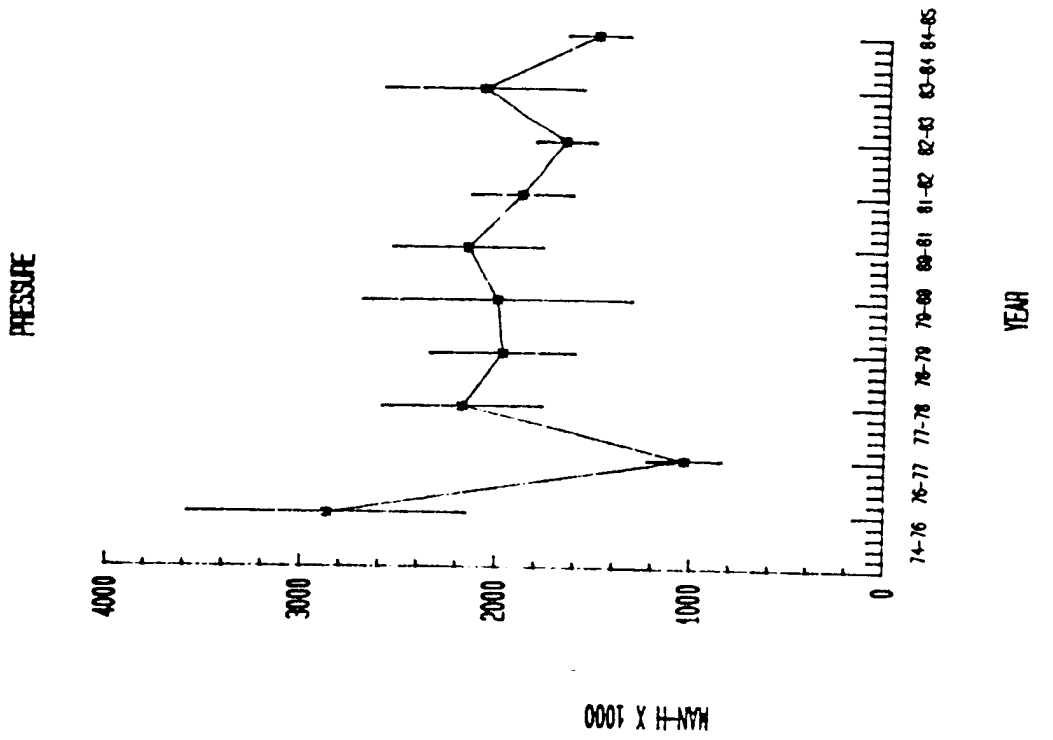
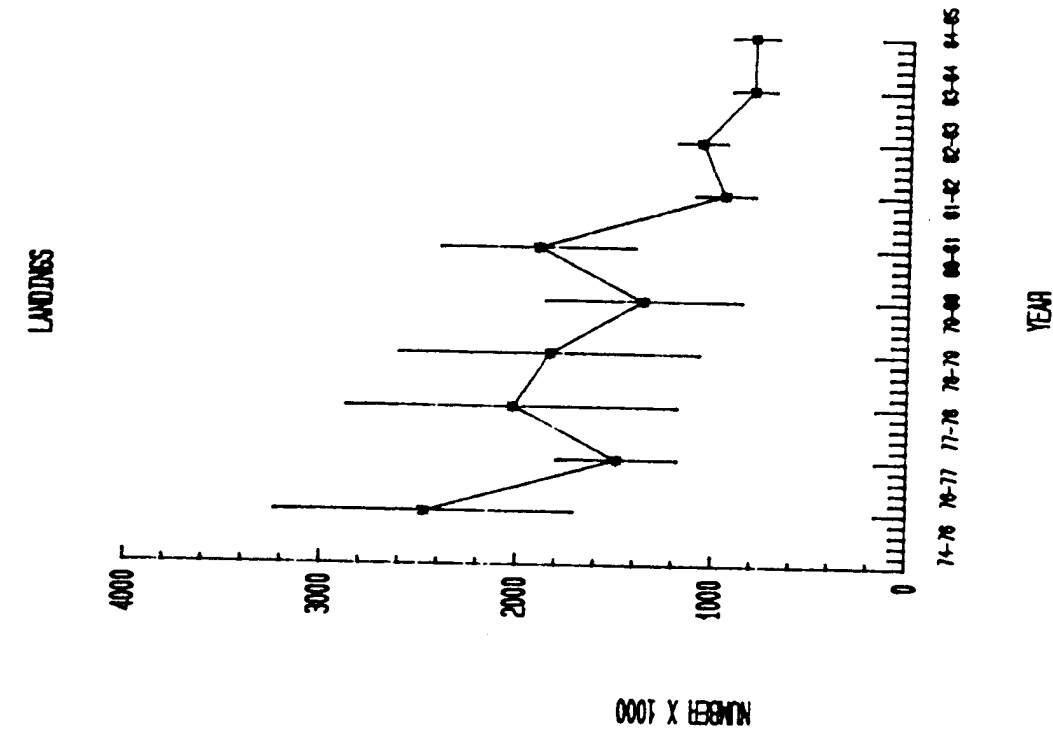
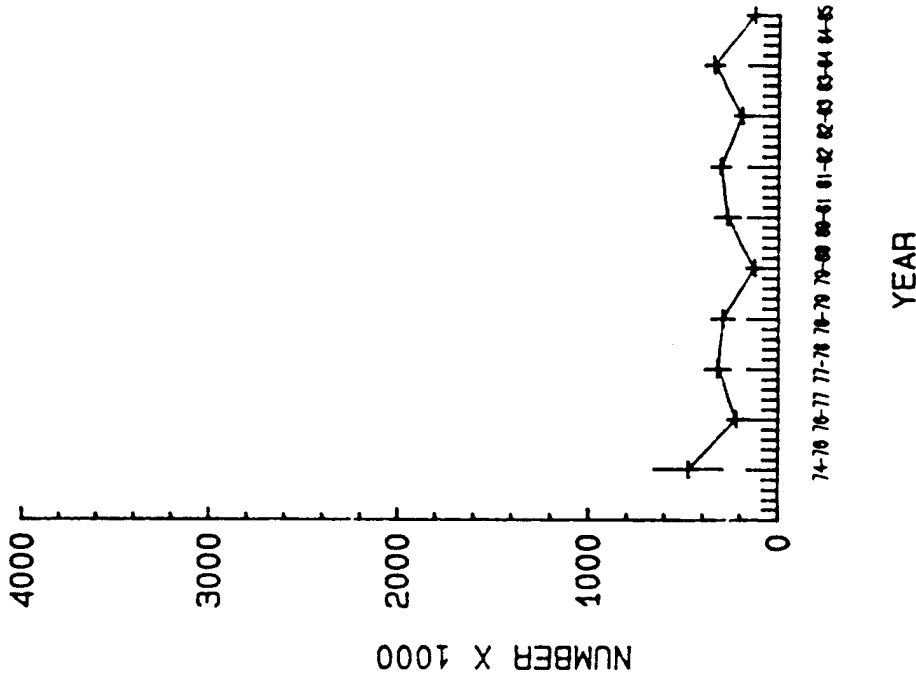


FIGURE 5. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE GALVESTON BAY SYSTEM, MAY 1974-MAY 1985.

LANDINGS



PRESSURE

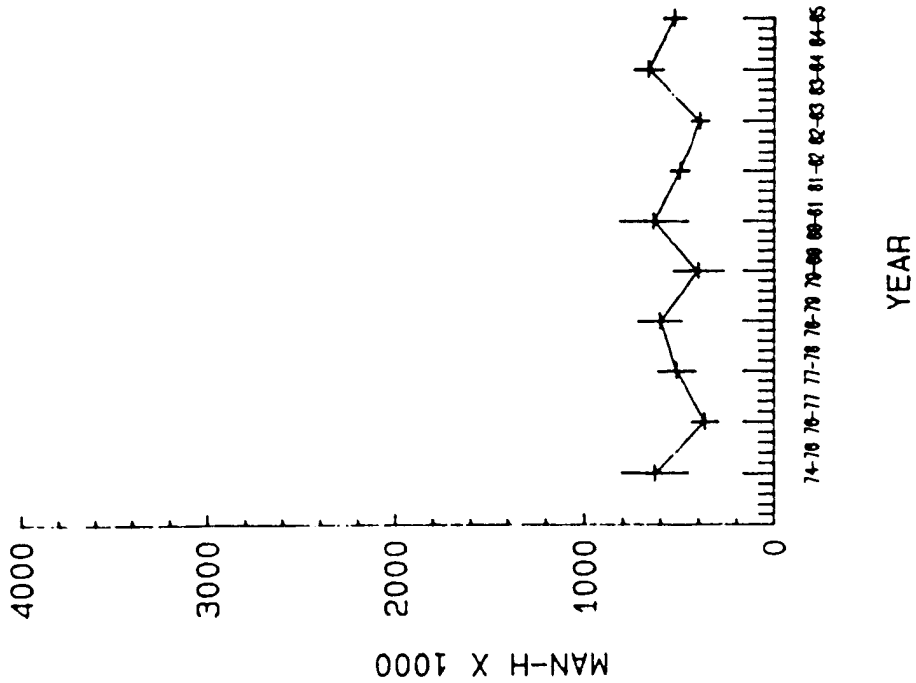
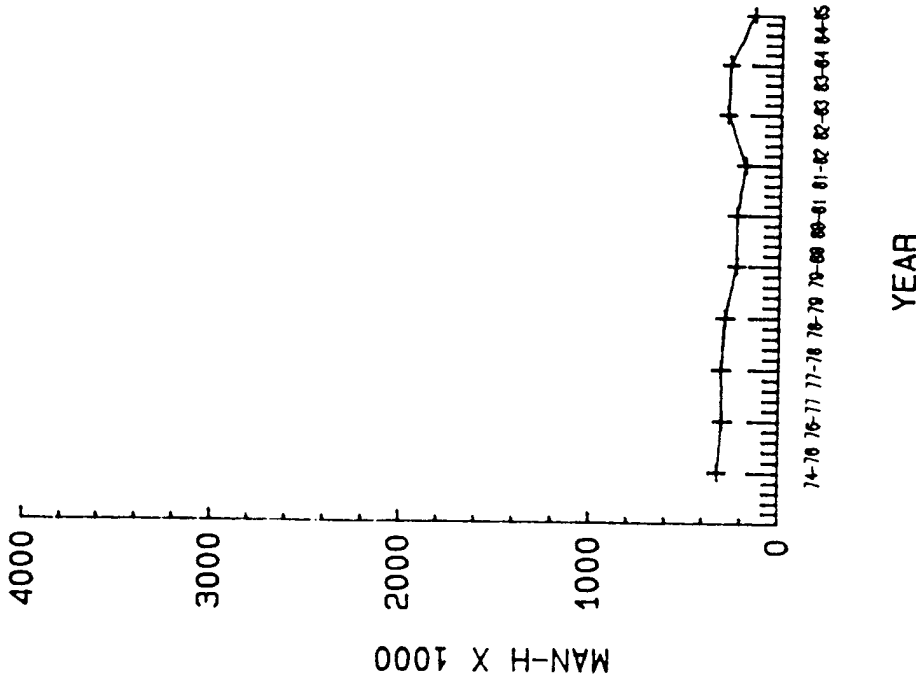


FIGURE 6. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE MATAGORDA BAY SYSTEM, MAY 1974-MAY 1985.

PRESSURE



LANDINGS

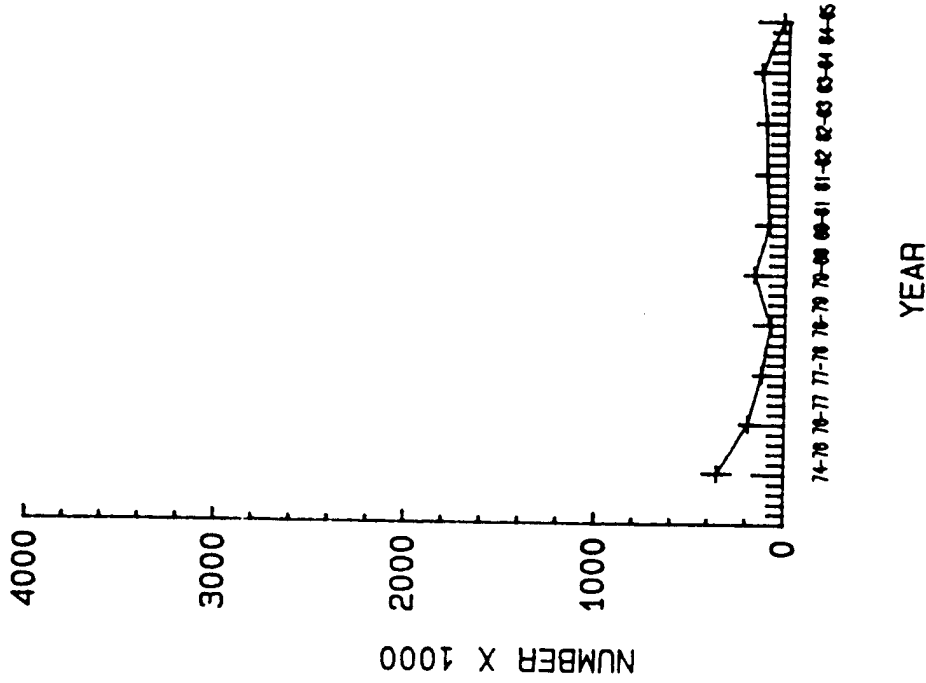
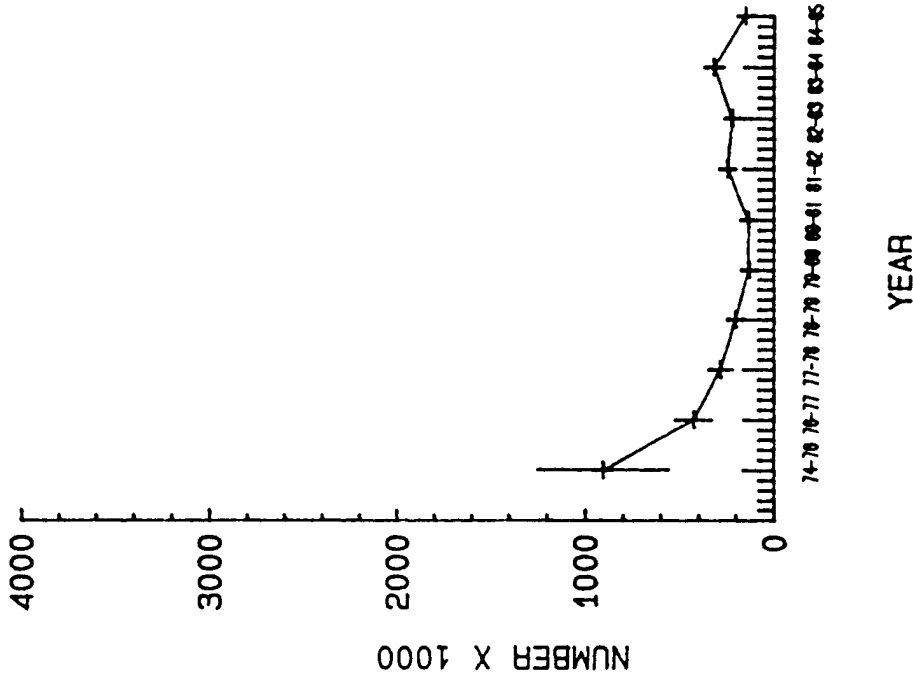


FIGURE 7. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE SAN ANTONIO BAY SYSTEM, MAY 1974-MAY 1985.

LANDINGS



PRESSURE

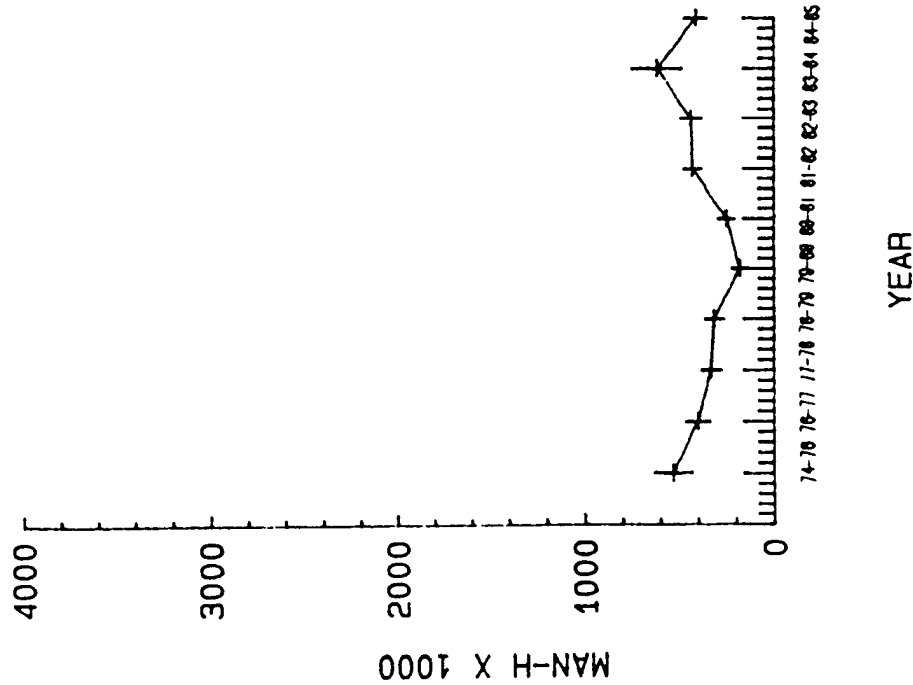


FIGURE 8. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE ARKANSAS BAY SYSTEM, MAY 1974-MAY 1985.

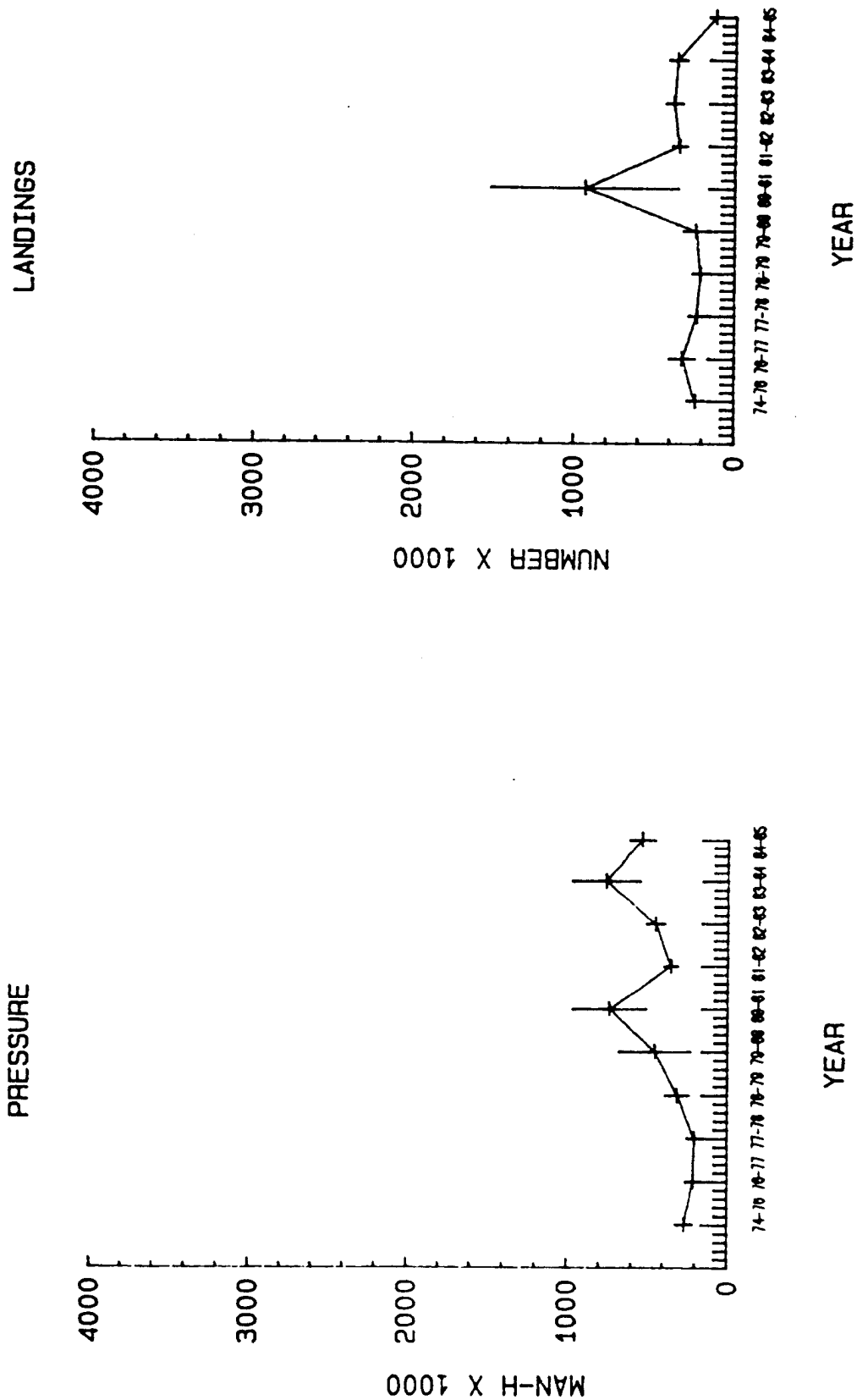


FIGURE 9. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE CORPUS CHRISTI BAY SYSTEM, MAY 1974-MAY 1985.

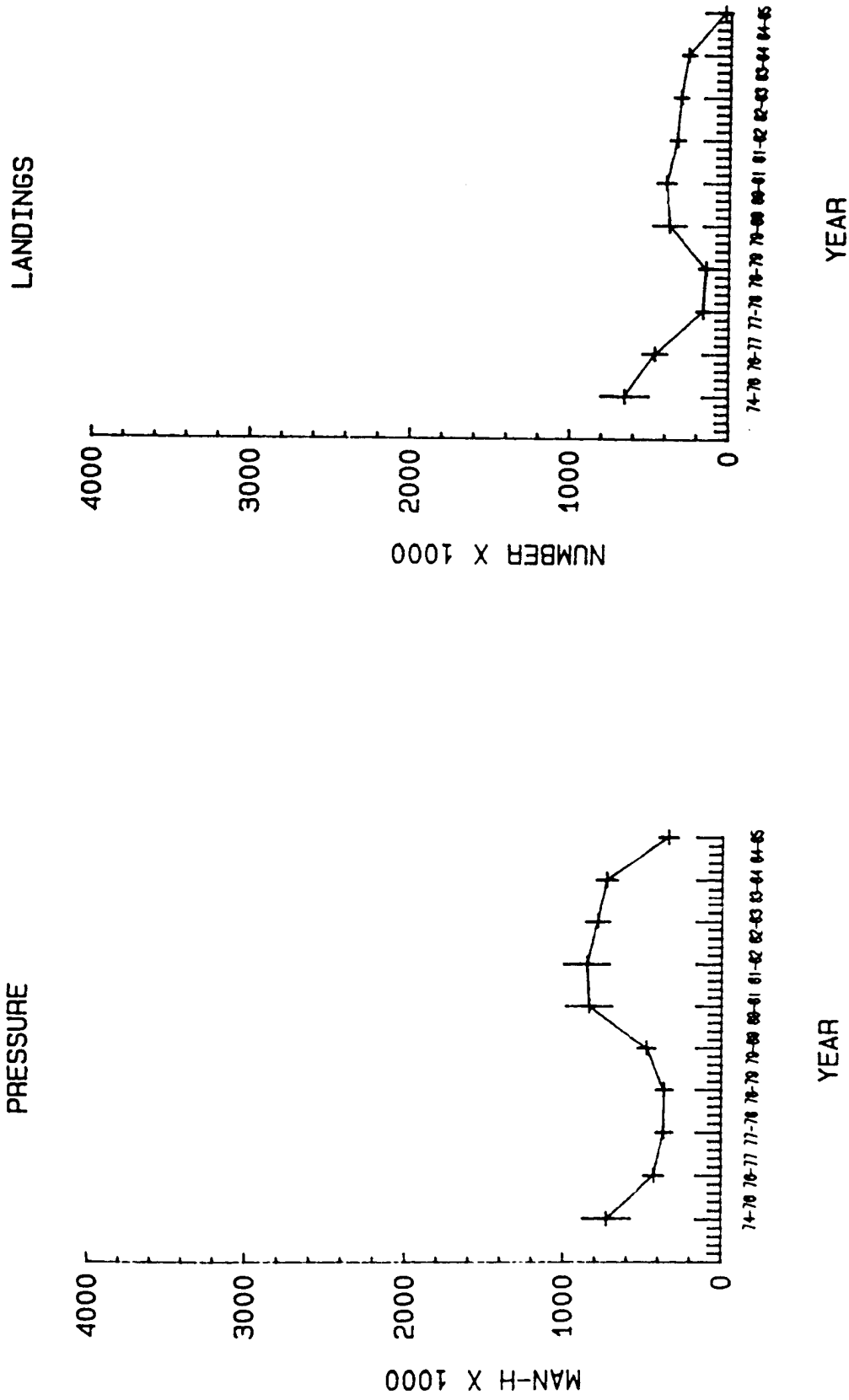


FIGURE 10. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE. (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE UPPER LAGUNA MADRE, MAY 1974-MAY 1985.

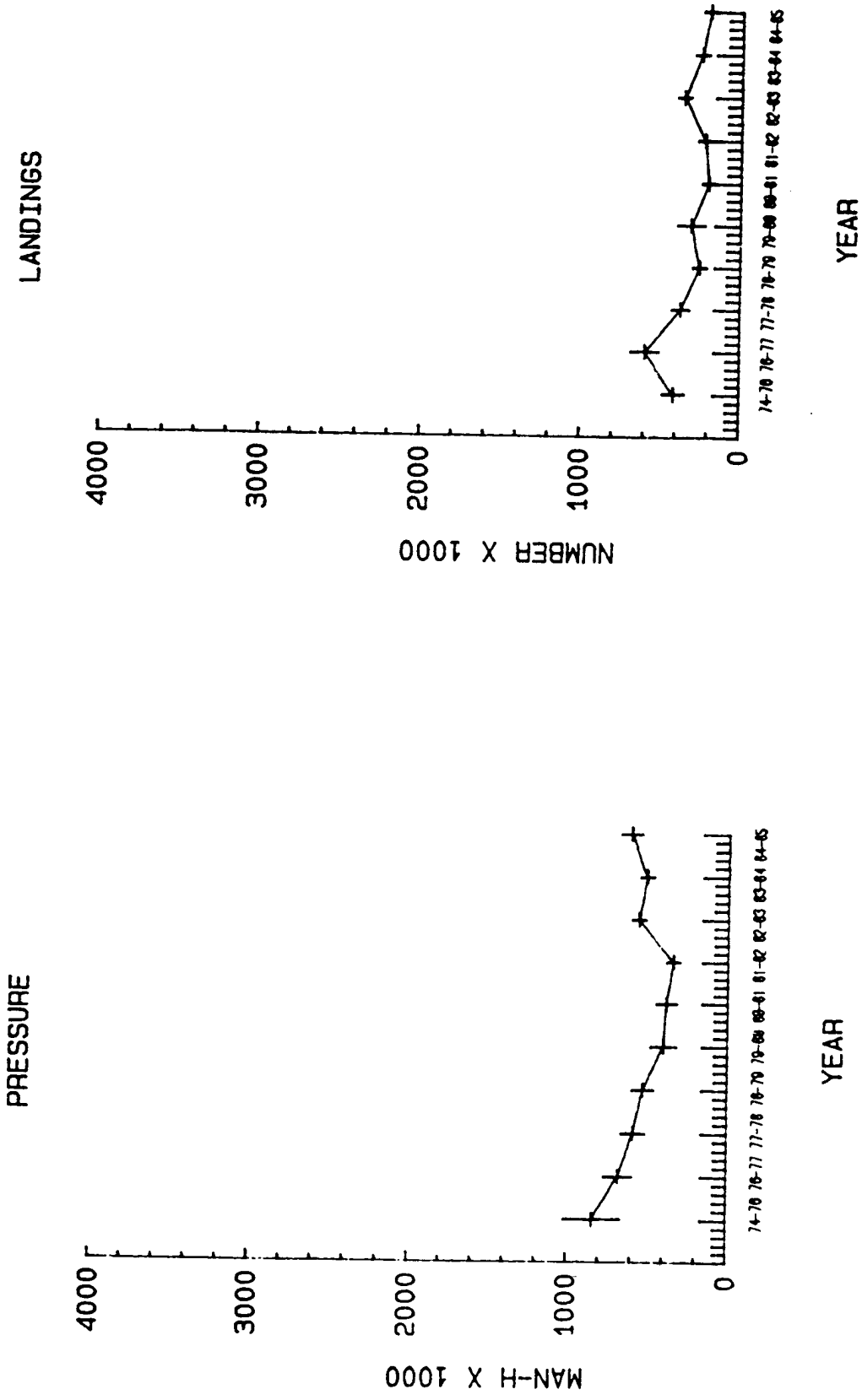


FIGURE 11. ANNUAL BAY AND PASS PRIVATE-BOAT FISHING PRESSURE. (+ 1 SE) AND LANDINGS (+ 1 SE) FOR THE LOWER LAGUNA MADRE, MAY 1974-MAY 1985.

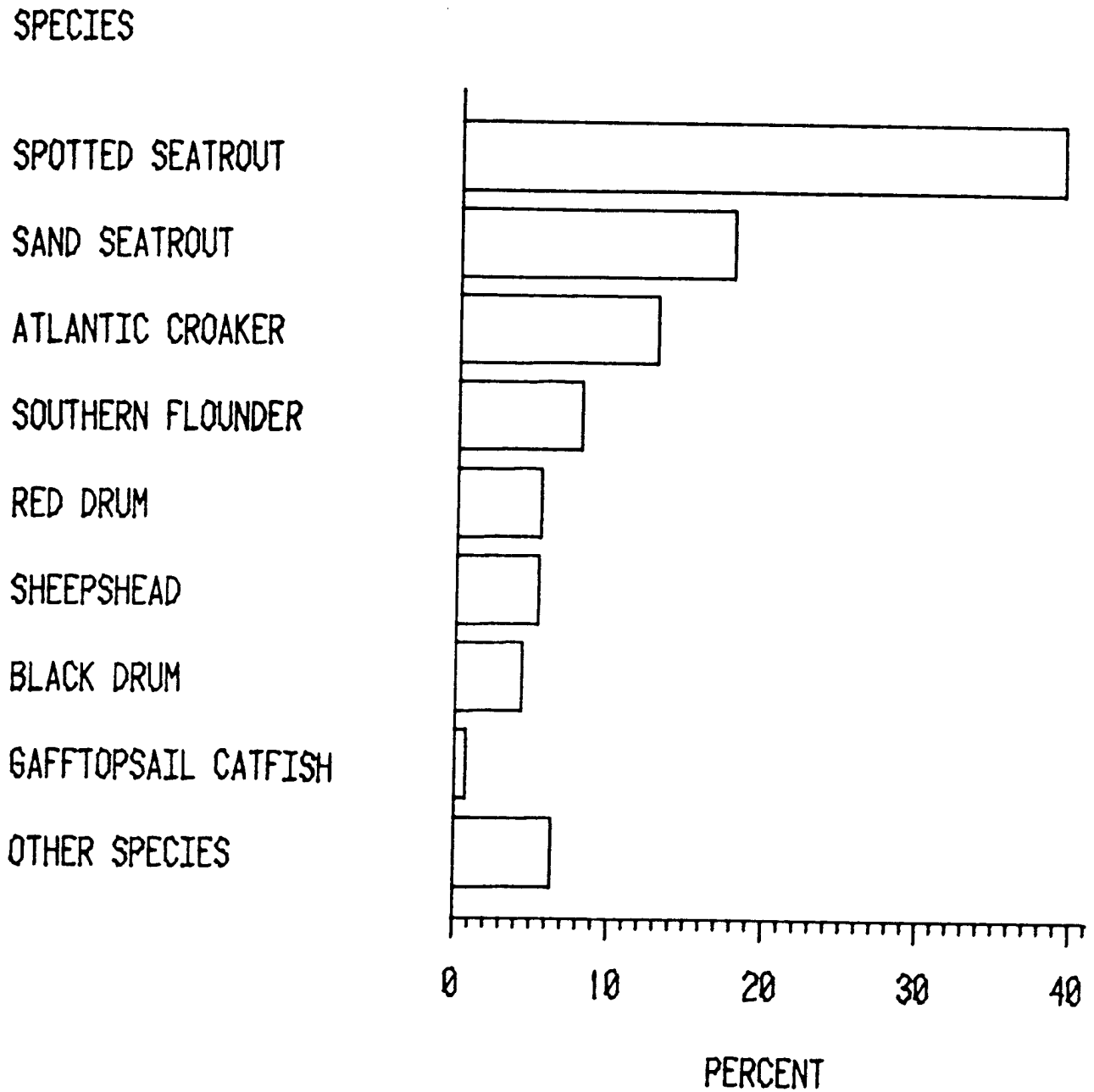


FIGURE 12. SPECIES COMPOSITION (%) OF COASTWIDE ANNUAL FINFISH LANDINGS BY BAY AND PASS PRIVATE-BOAT FISHERMEN, MAY 1979-MAY 1985, (6-YEAR MEAN).

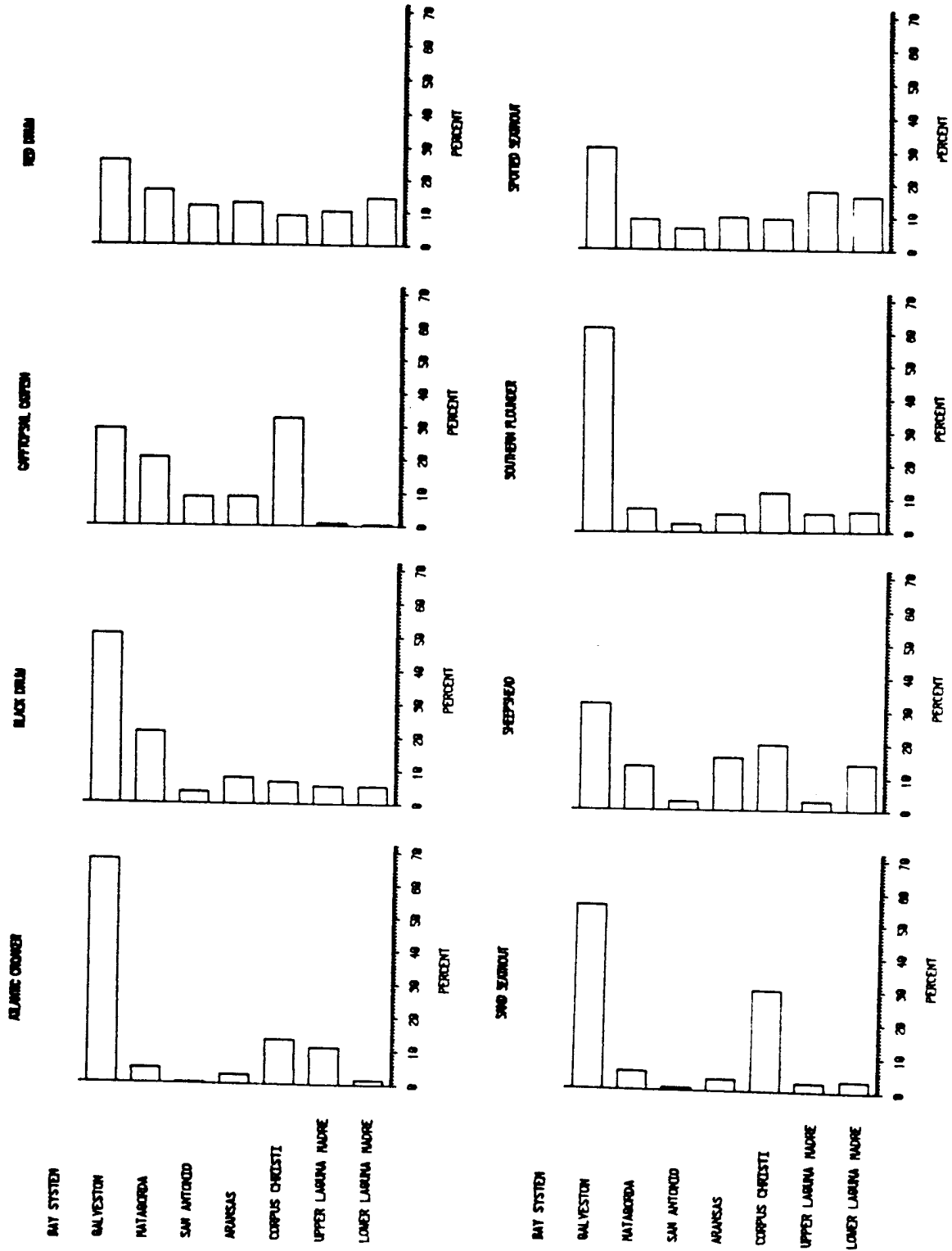


FIGURE 13. DISTRIBUTION (%) OF ANNUAL LANDINGS OF SELECTED FINFISH CAUGHT BY BAY AND PASS PRIVATE-BOAT FISHERMEN AMONG BAY SYSTEMS, MAY 1979-MAY 1985, (6 YEAR MEAN).

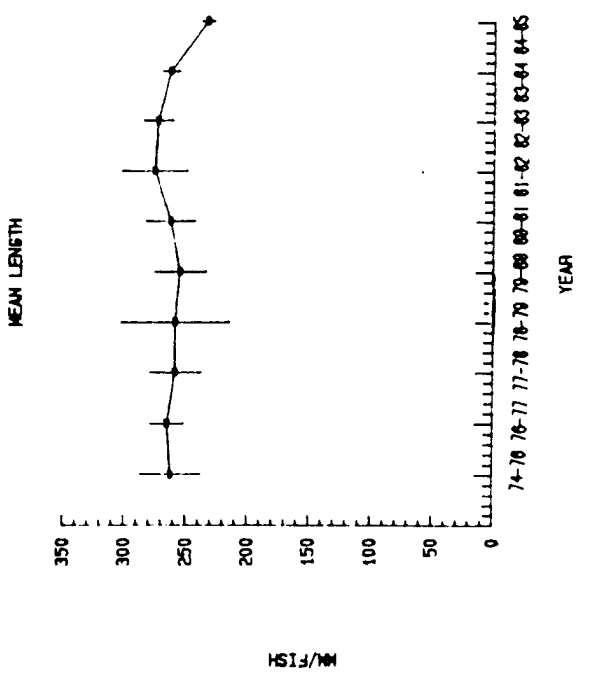
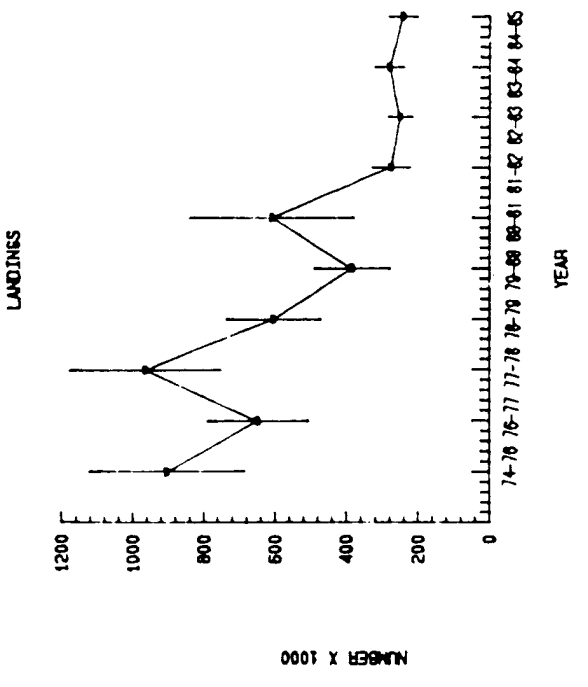
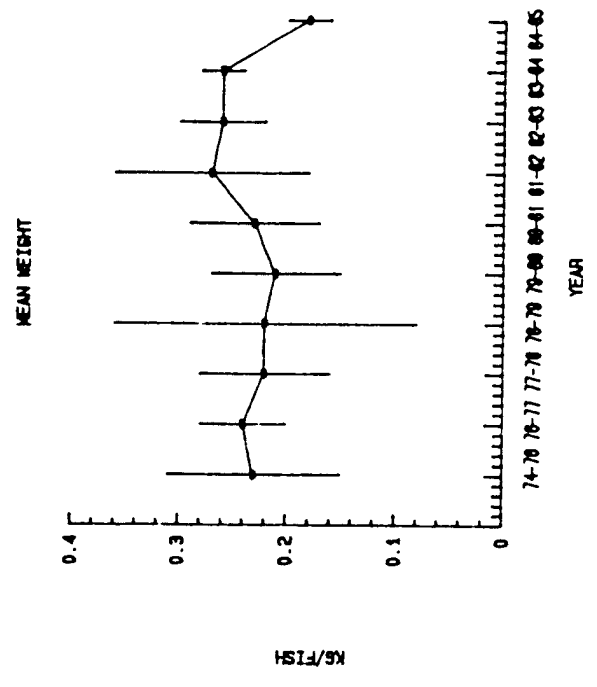
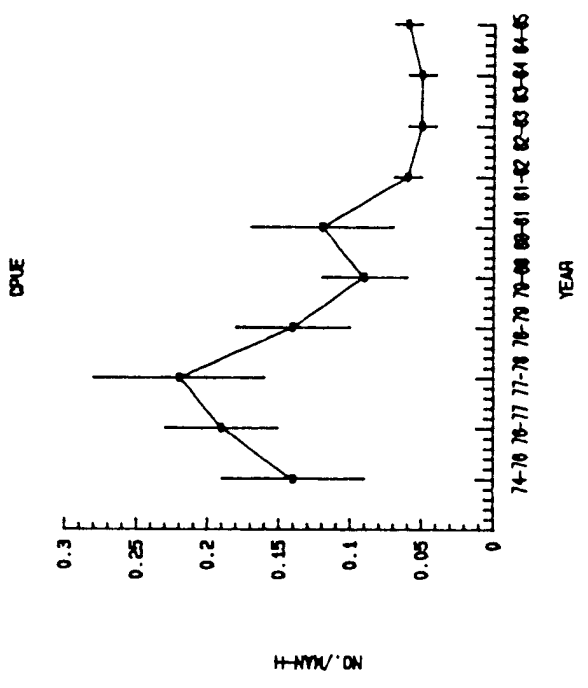


FIGURE 14. COASTWIDE ANNUAL STATISTICS FOR ATLANTIC CROAKER LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

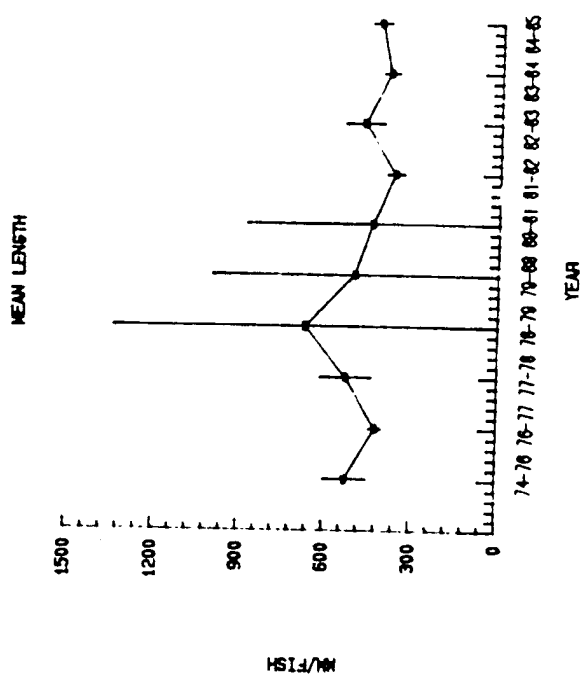
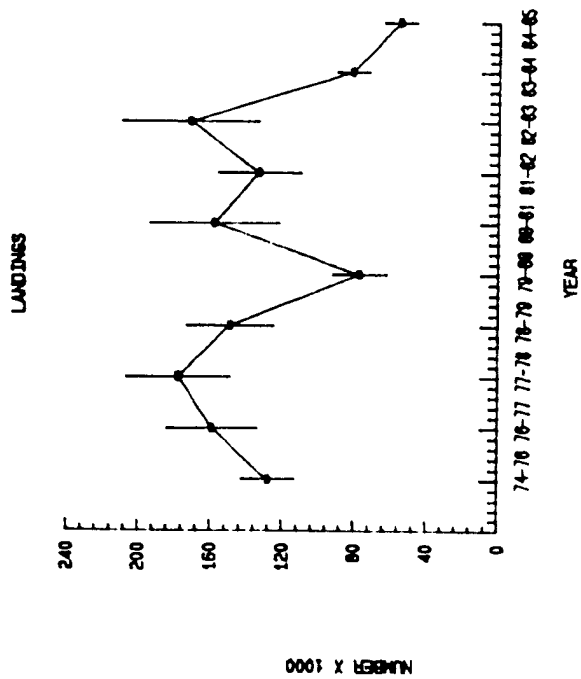
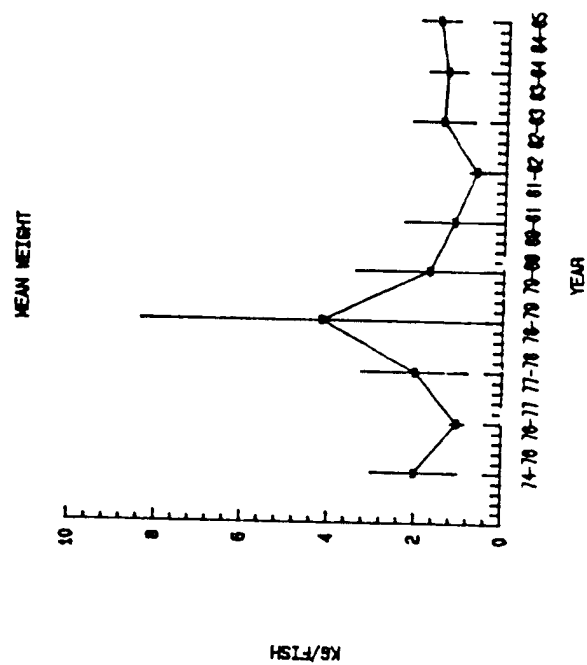
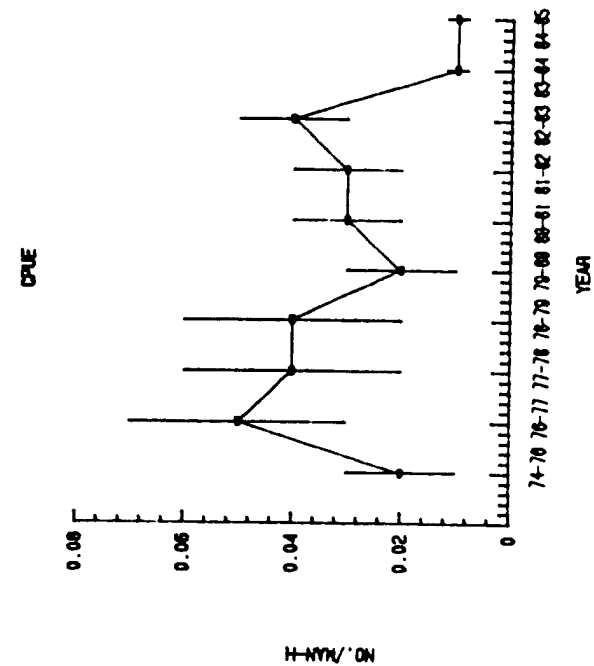


FIGURE 15. COASTWIDE ANNUAL STATISTICS FOR BLACK DRUM LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

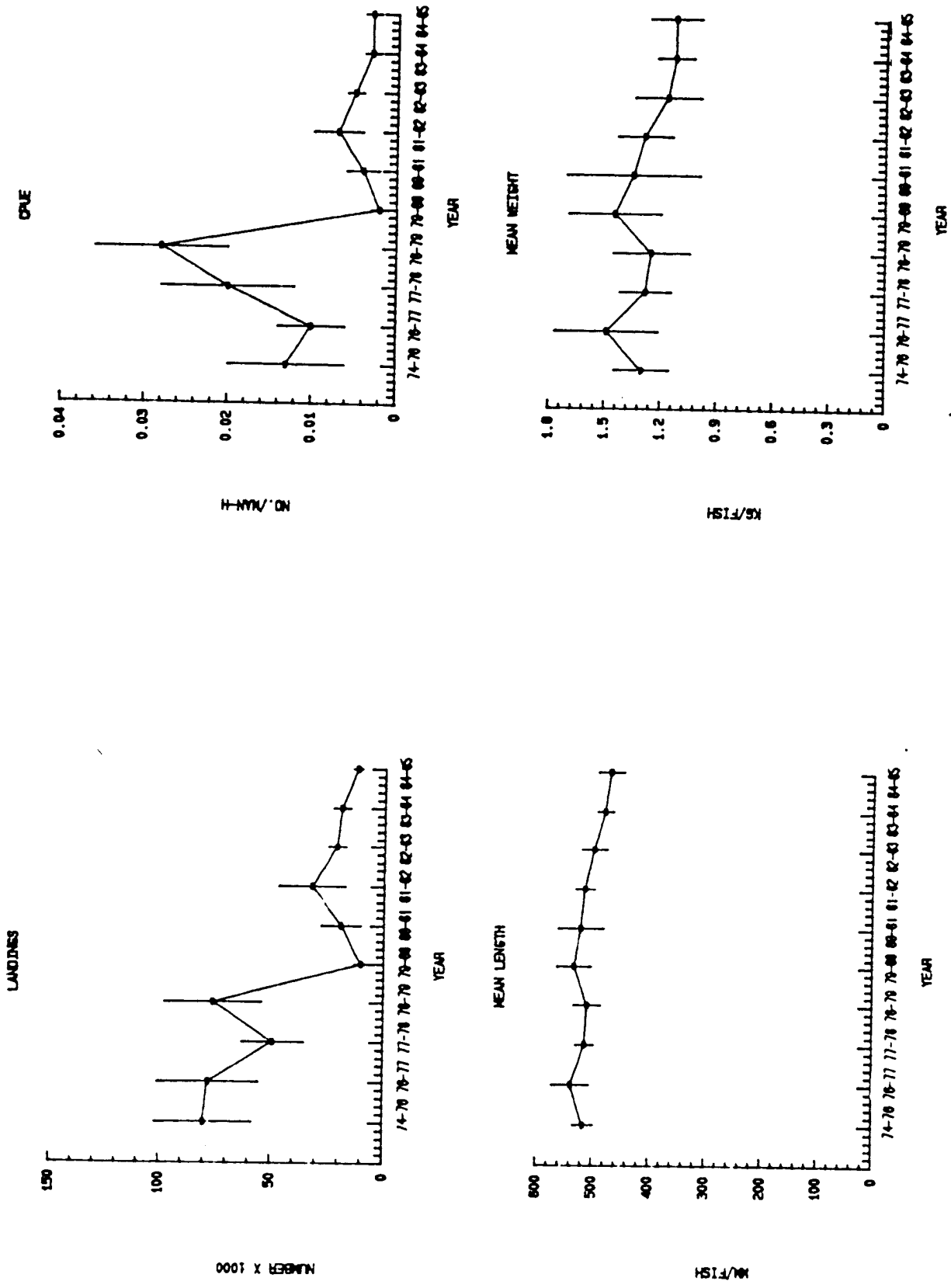


FIGURE 16. COASTWIDE ANNUAL STATISTICS FOR GAFFTOPSAIL CATFISH LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

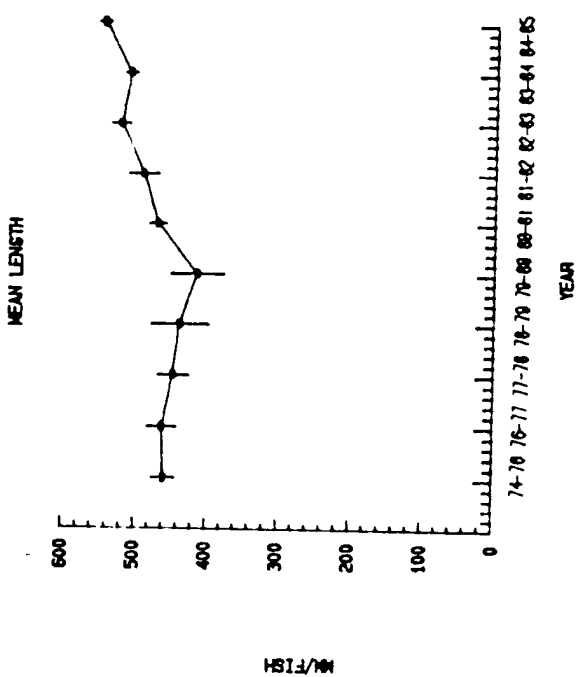
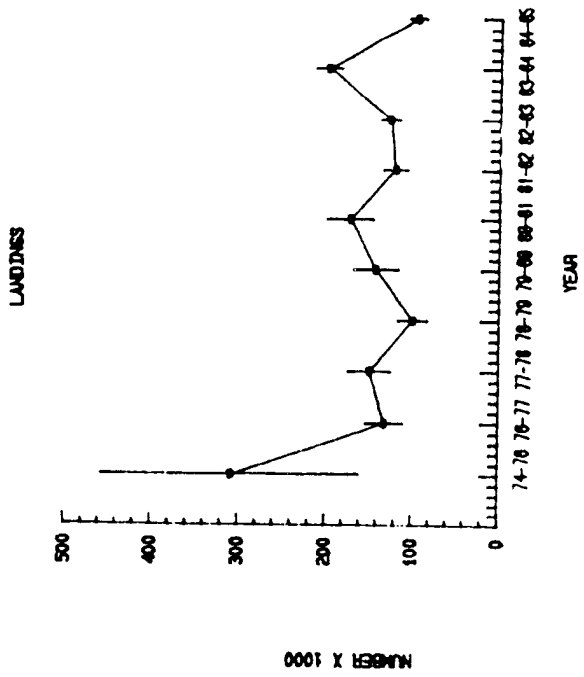
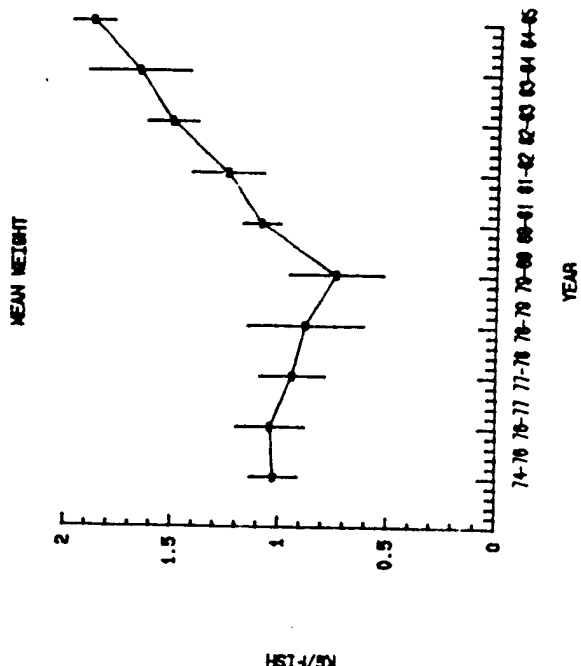
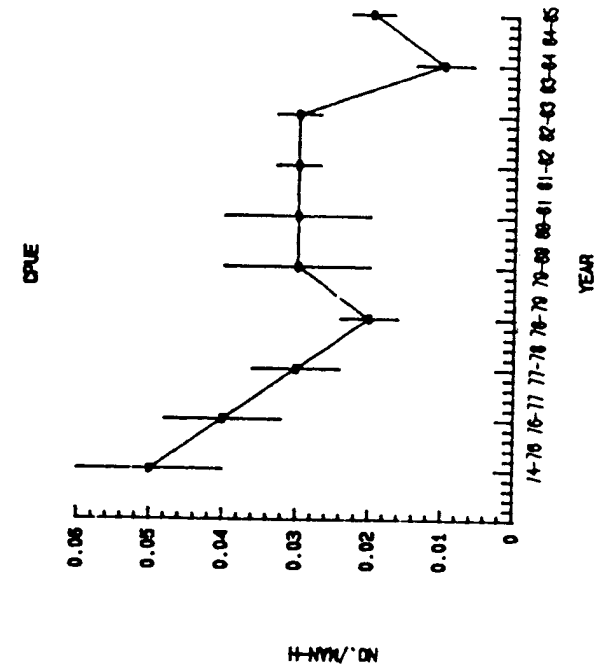


FIGURE 17. COASTWIDE ANNUAL STATISTICS FOR RED DRUM LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

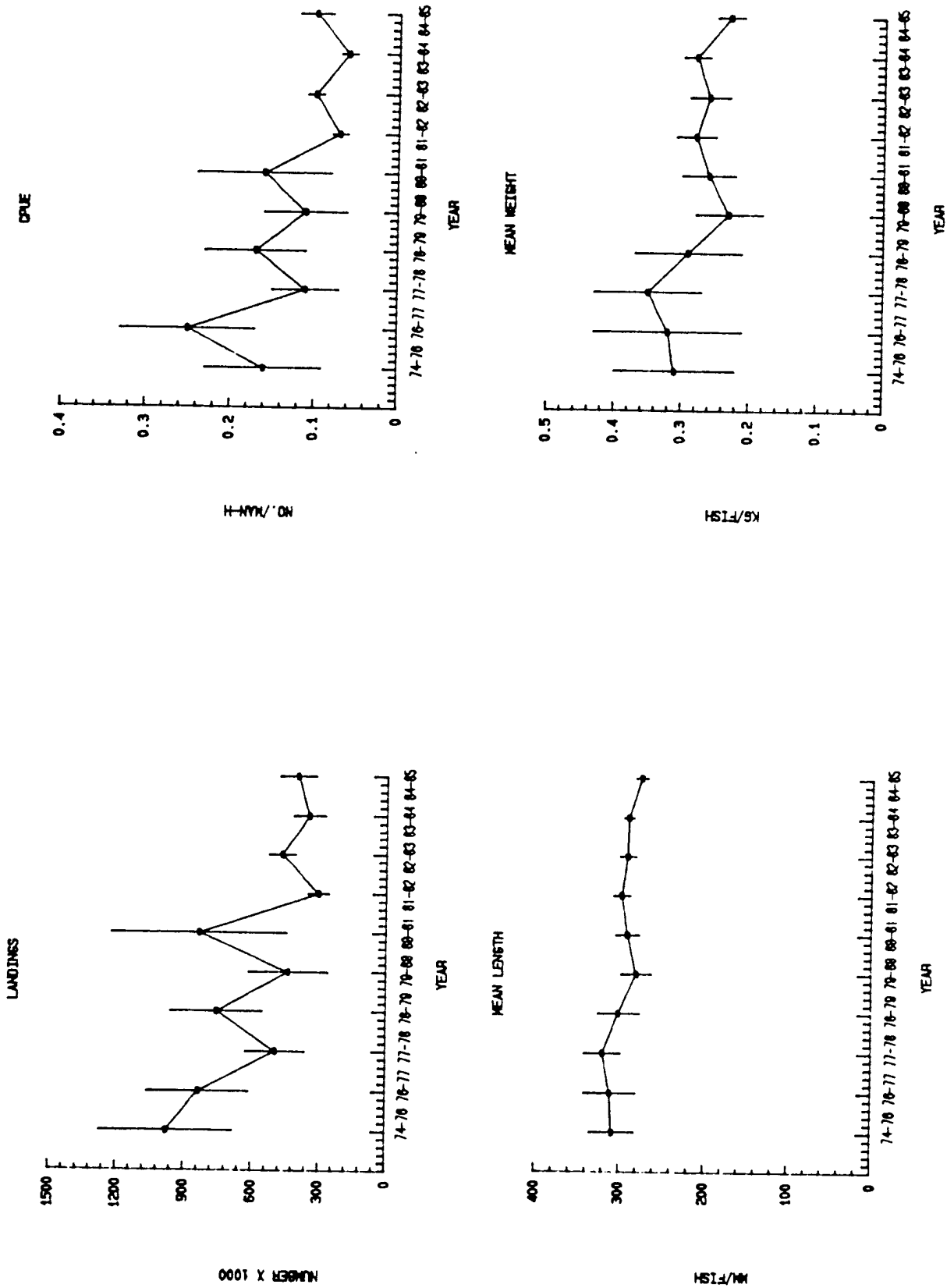


FIGURE 18. COASTWIDE ANNUAL STATISTICS FOR SAND SEATROUT LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

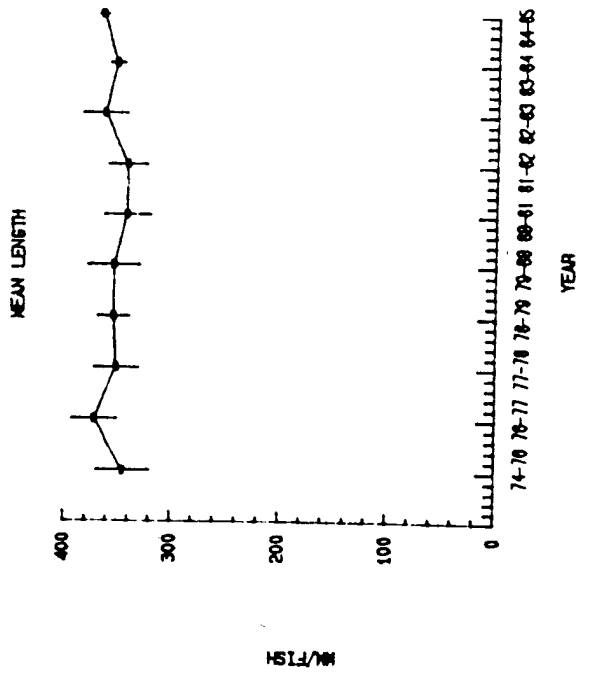
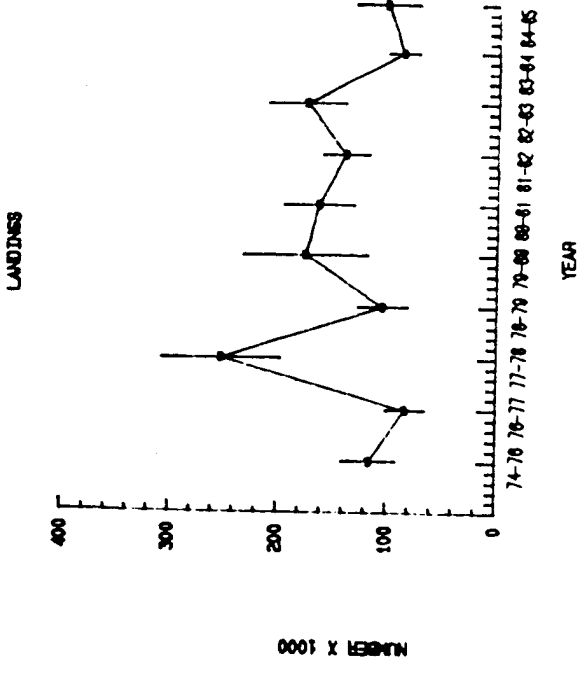
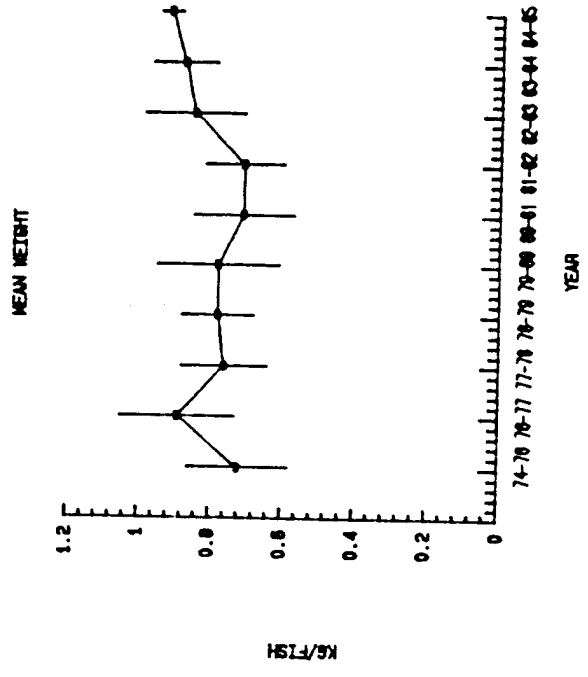
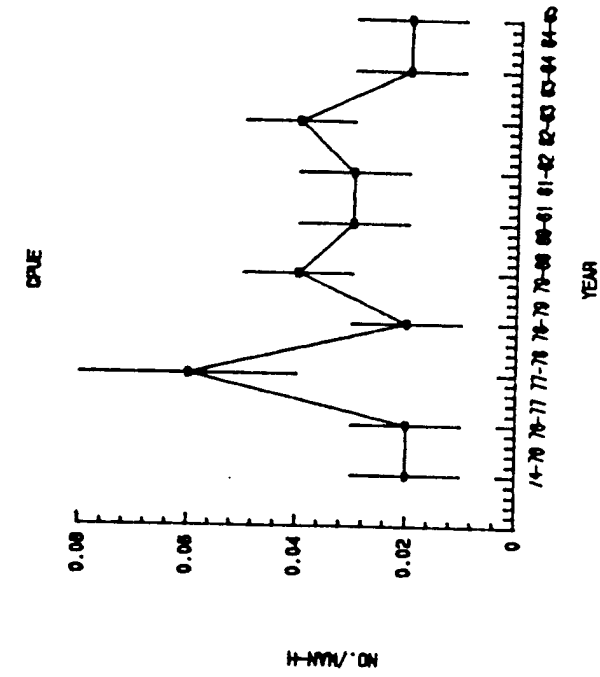


FIGURE 19. COASTWIDE ANNUAL STATISTICS FOR SHEEPSHEAD LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

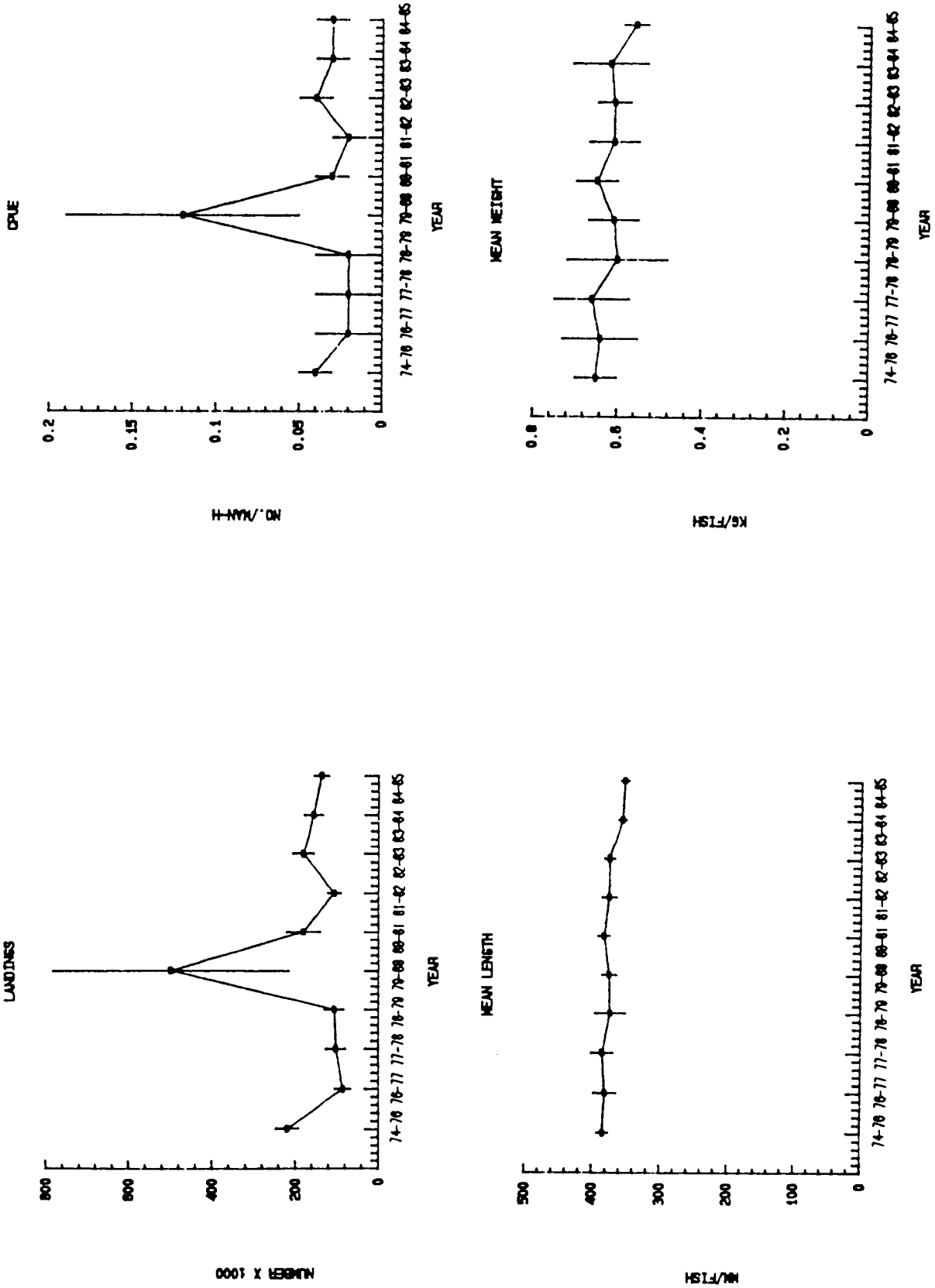


FIGURE 20. COASTWIDE ANNUAL STATISTICS FOR SOUTHERN FLOUNDER LANDED FROM BAYS AND PASSES BY PRIVATE-BOAT FISHERMEN, MAY 1974-MAY 1985.

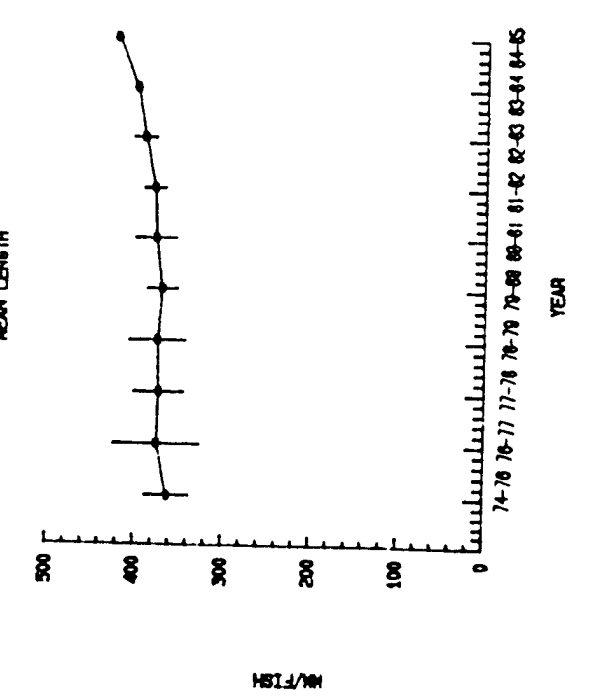
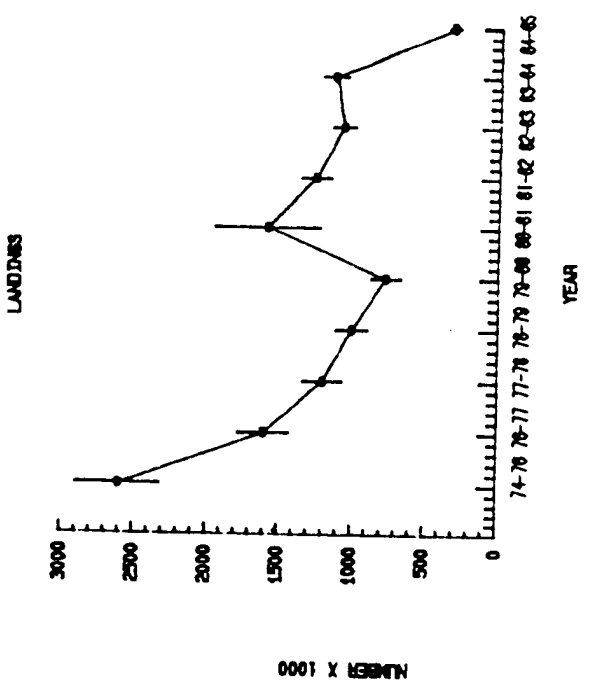
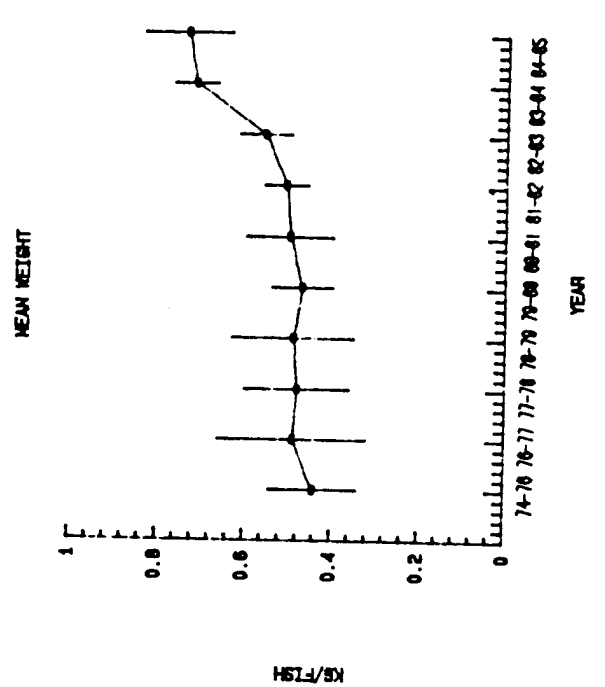
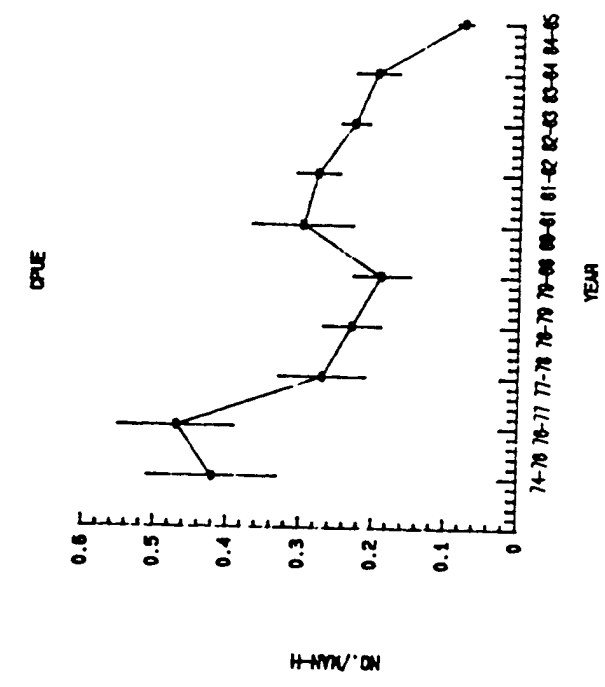


FIGURE 21. COASTWIDE ANNUAL STATISTICS FOR SPOTTED SEATROUT LANDED FROM BAYS AND PASSES BY PRIVATE BOAT FISHERMEN, MAY 1974-MAY 1985.

Appendix A: Pass descriptions.

PASS DESCRIPTIONS

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

Galveston Bay

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

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

Quintana Channel is the area between the Intracoastal Waterway southeast to 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.

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 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

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.

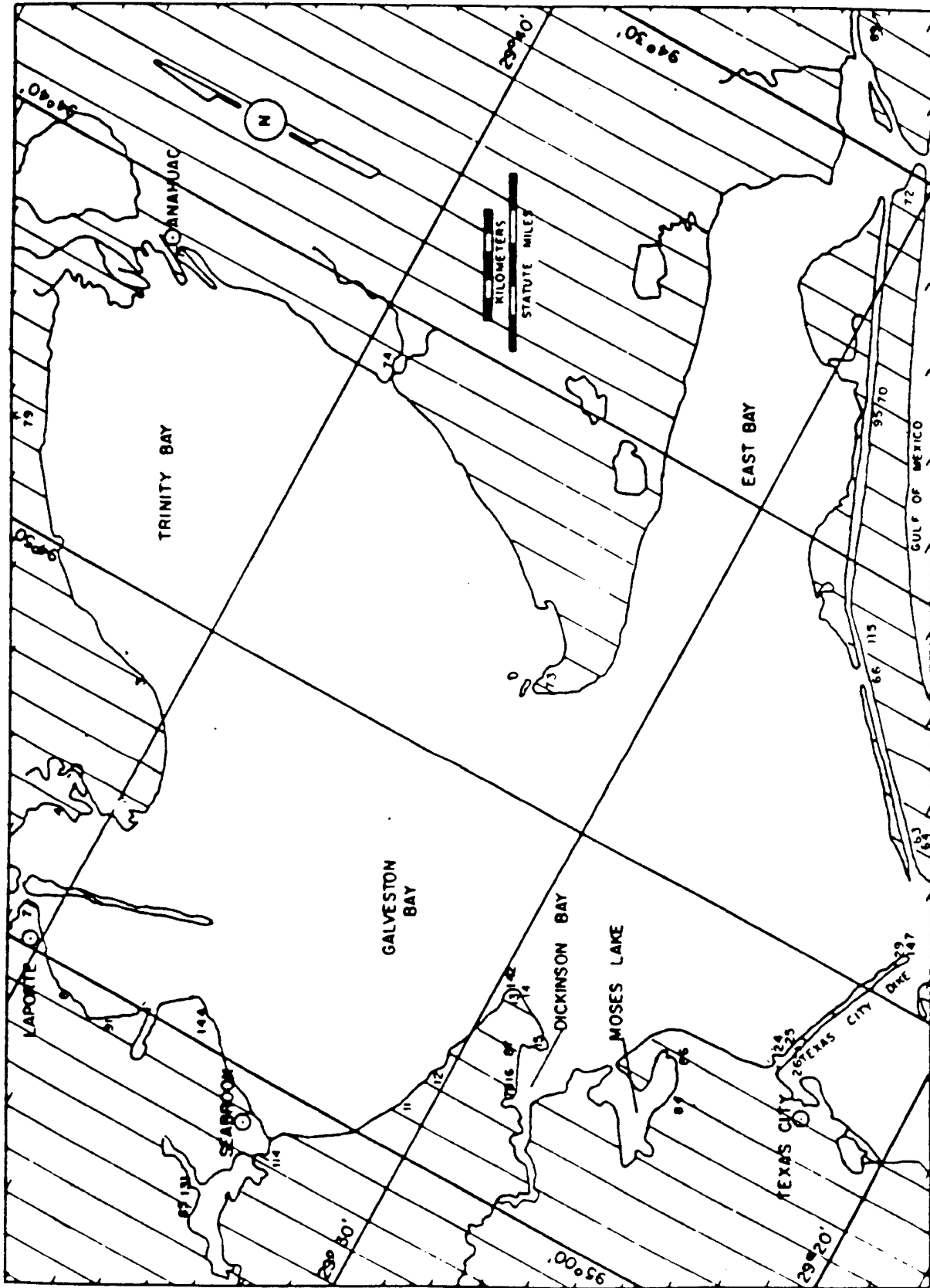
Lower Laguna Madre

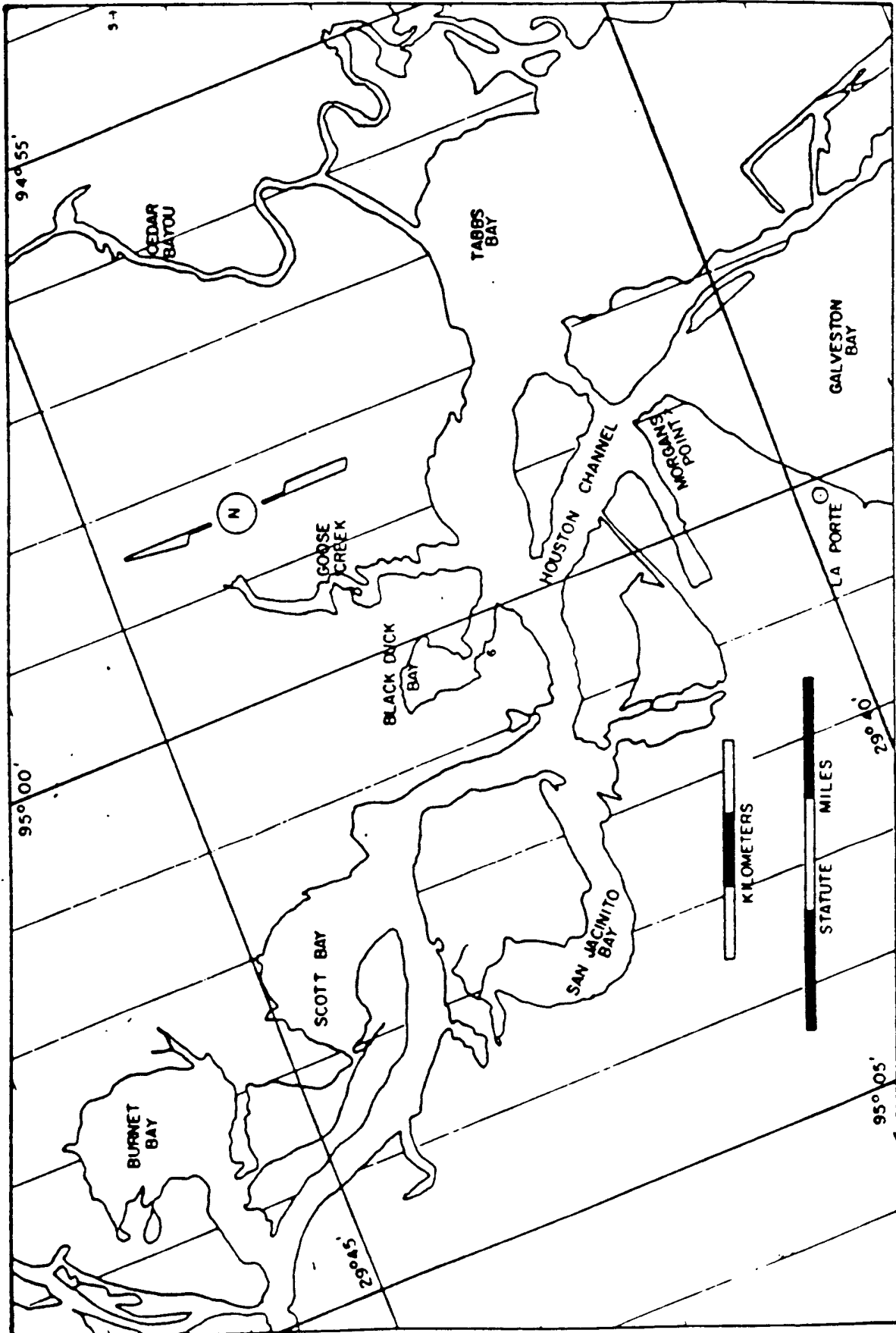
Port Mansfield Channel is the area extending from Marker 12 to 1.6 km gulfward of the end of the jetties.

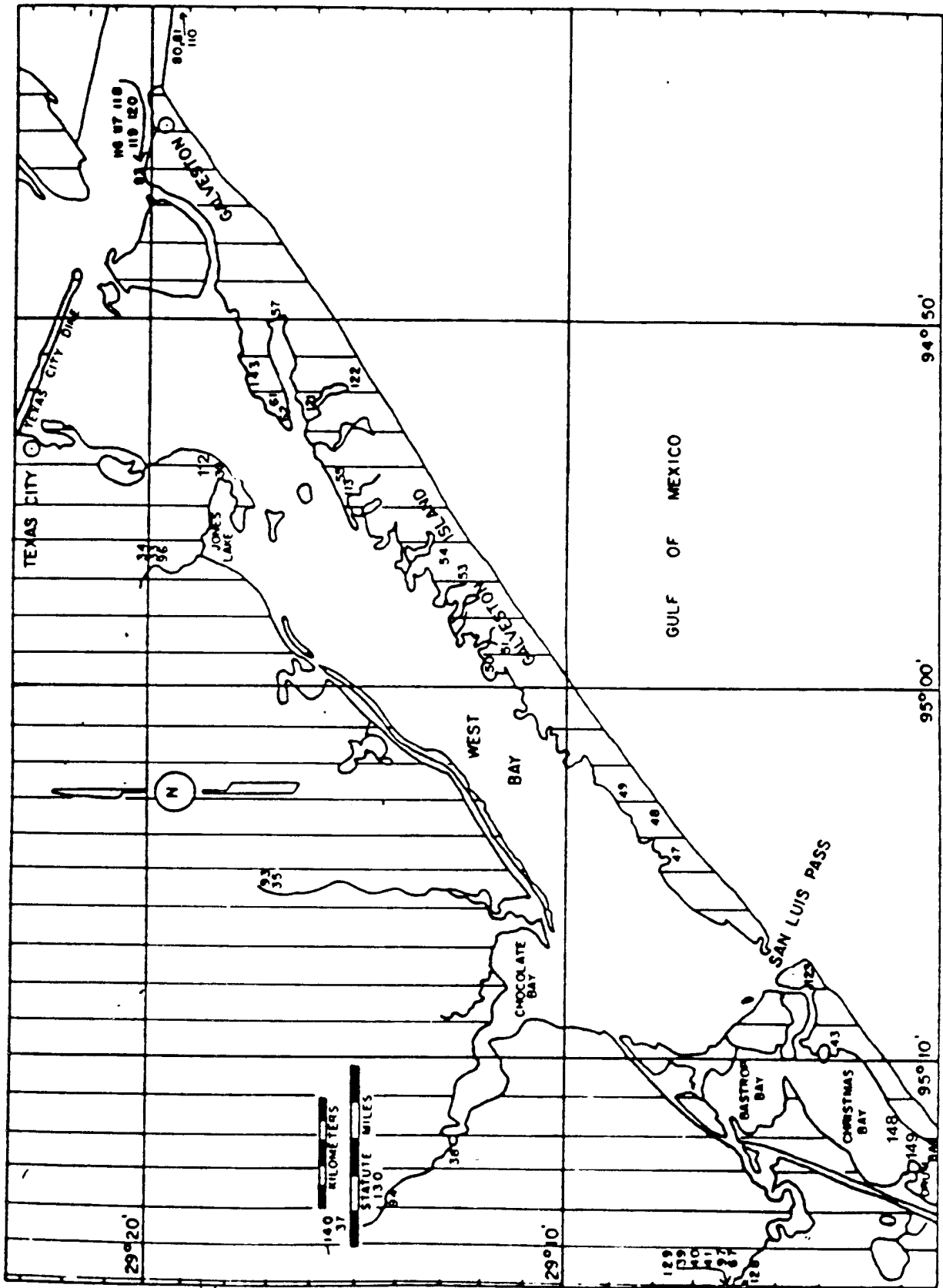
Brazos Santiago Channel is the area between a line from the Radio Beacon area south to Brazos Island out to 1.6 km gulfward of the end of the jetties.

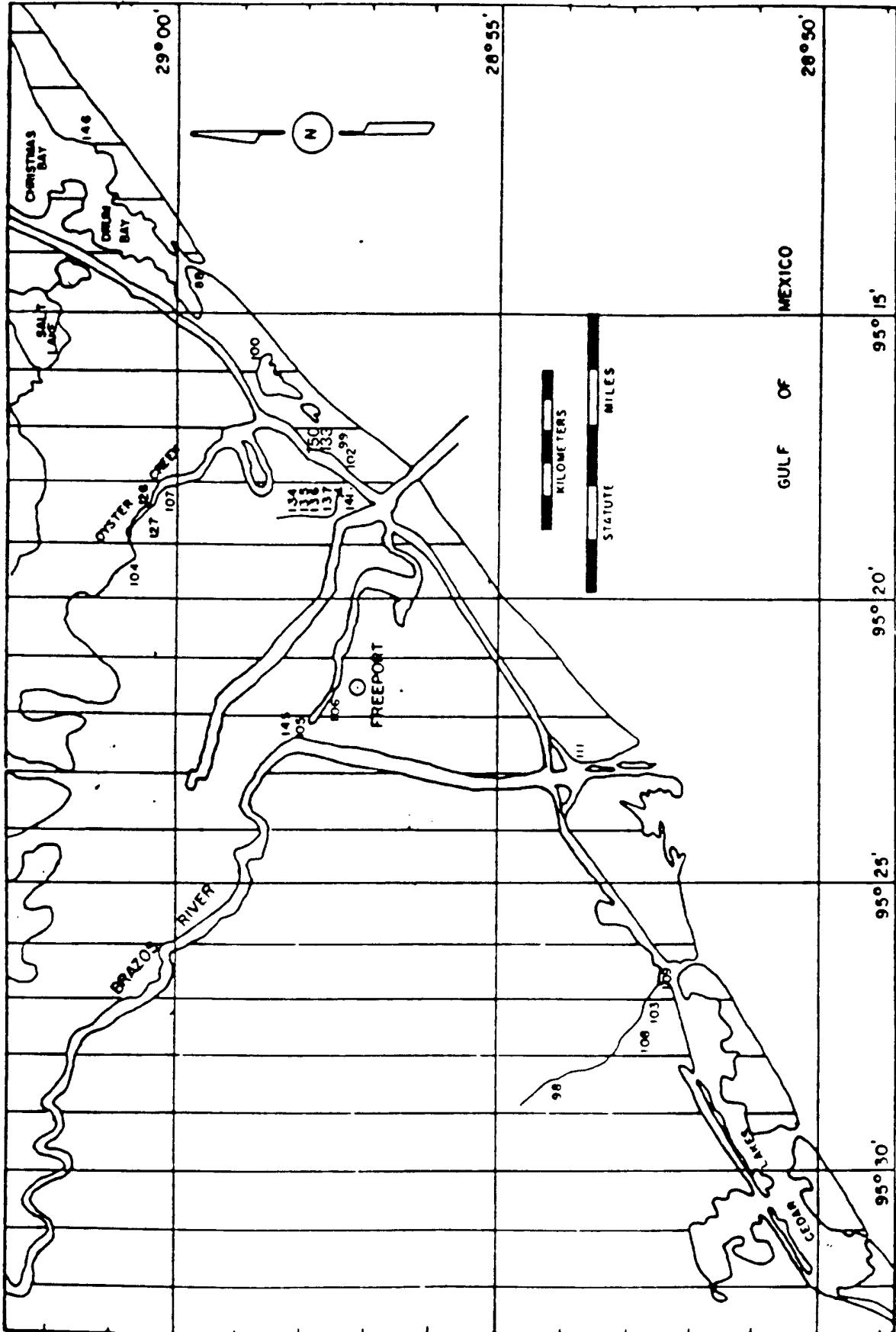
Appendix B: Survey site inventory.

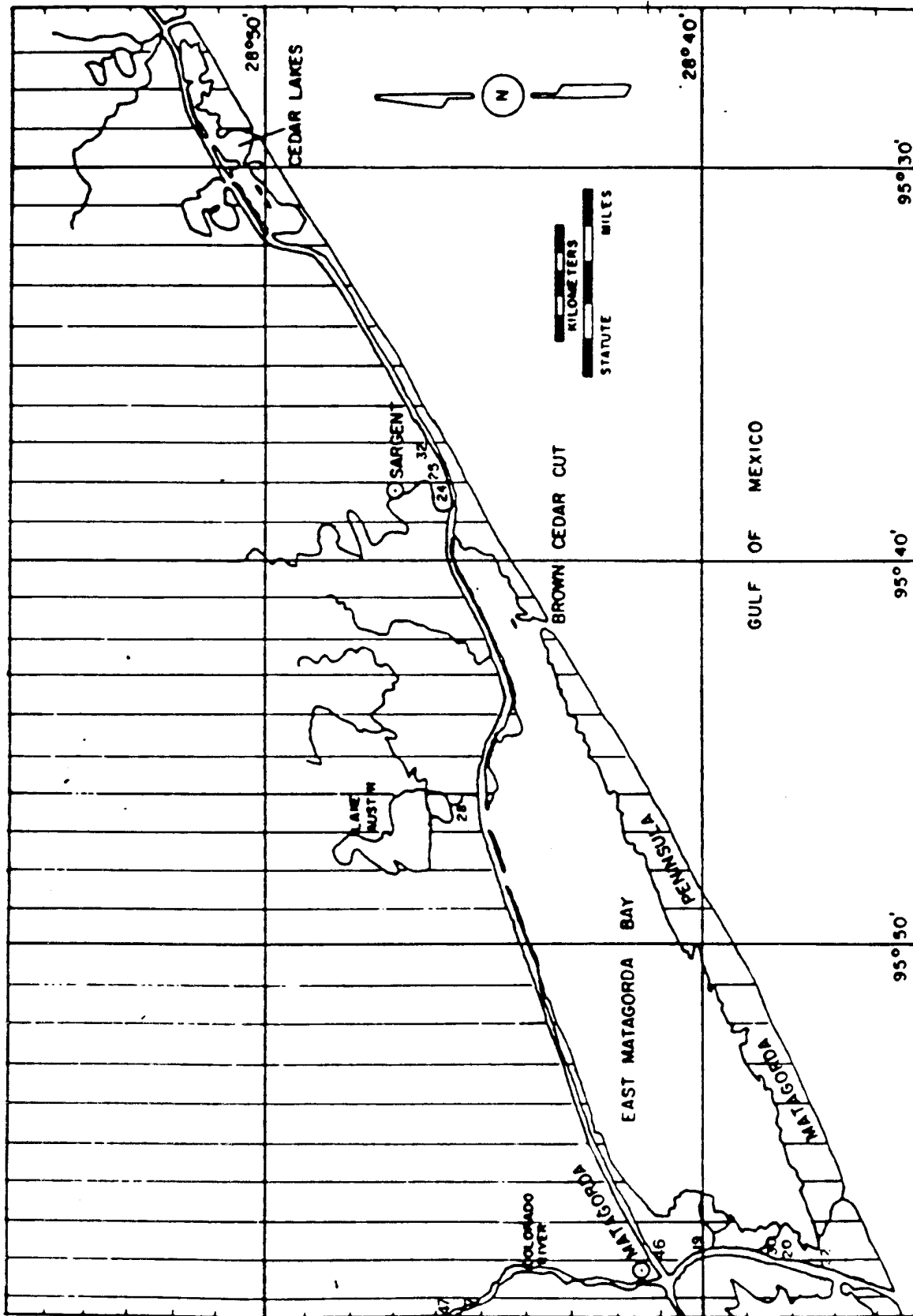
- Figure B.1. Boat-access sites the Galveston Bay system (May 1974-May 1985).
- Figure B.2. Boat-access sites in the Galveston Bay system (May 1974-May 1985).
- Figure B.3. Boat-access sites in the Galveston Bay system (May 1974-May 1985).
- Figure B.4. Boat-access sites in the Galveston Bay system (May 1974-May 1985).
- Figure B.5. Boat-access sites in the Matagorda Bay system (May 1974-May 1985).
- Figure B.6. Boat-access sites in the Matagorda Bay system (May 1974-May 1985).
- Figure B.7. Boat-access sites in the San Antonio Bay system (May 1974-May 1985).
- Figure B.8. Boat-access sites in the Aransas Bay system (May 1974-May 1985).
- Figure B.9. Boat-access sites in the Corpus Christi Bay system (May 1974-May 1985).
- Figure B.10. Boat-access sites in the upper Laguna Madre system (May 1974-May 1985).
- Figure B.11. Boat-access sites in the lower Laguna Madre system (May 1974-May 1985).
- Figure B.12. Boat-access sites in the lower Laguna Madre system (May 1974-May 1985).

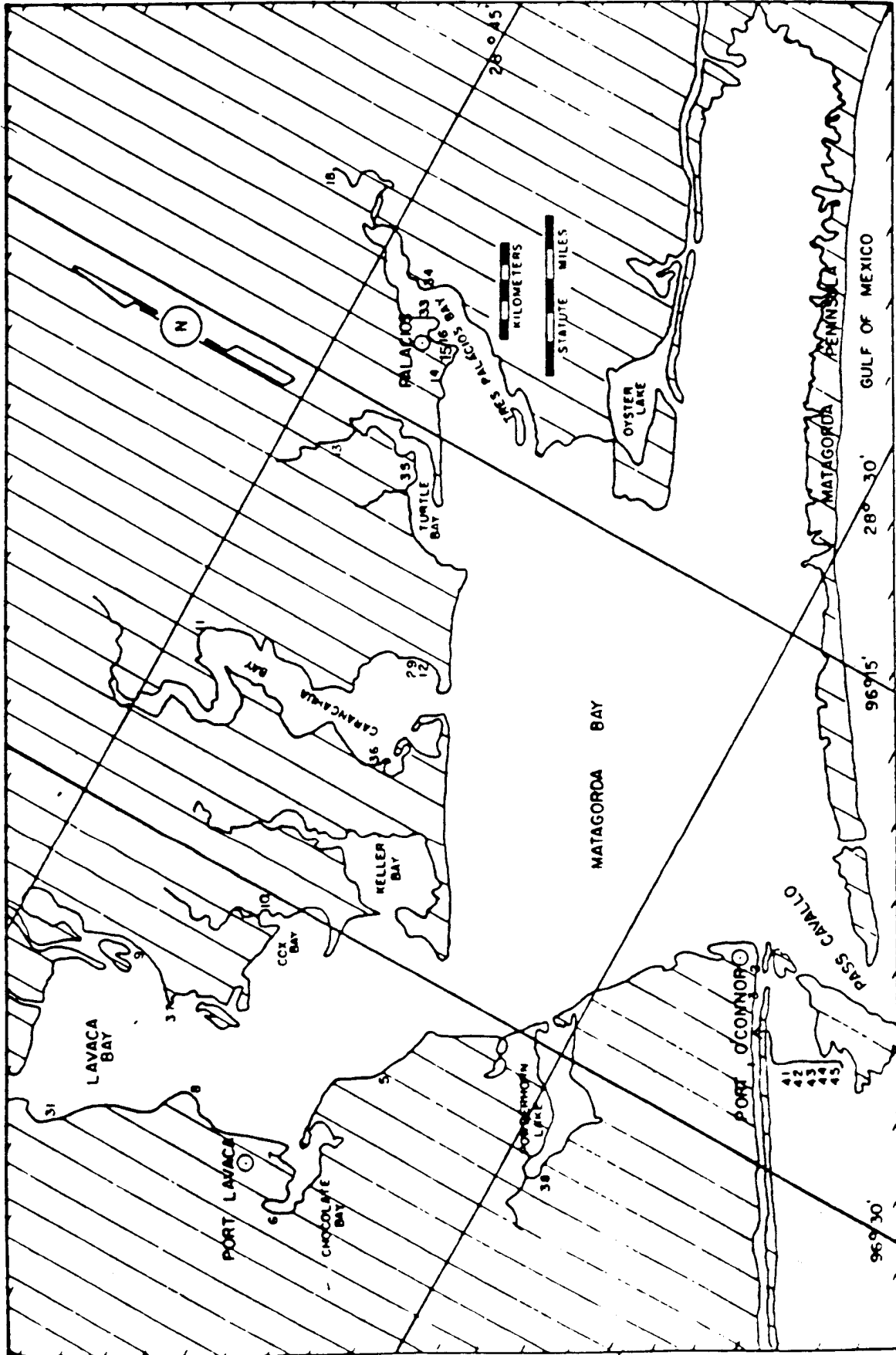


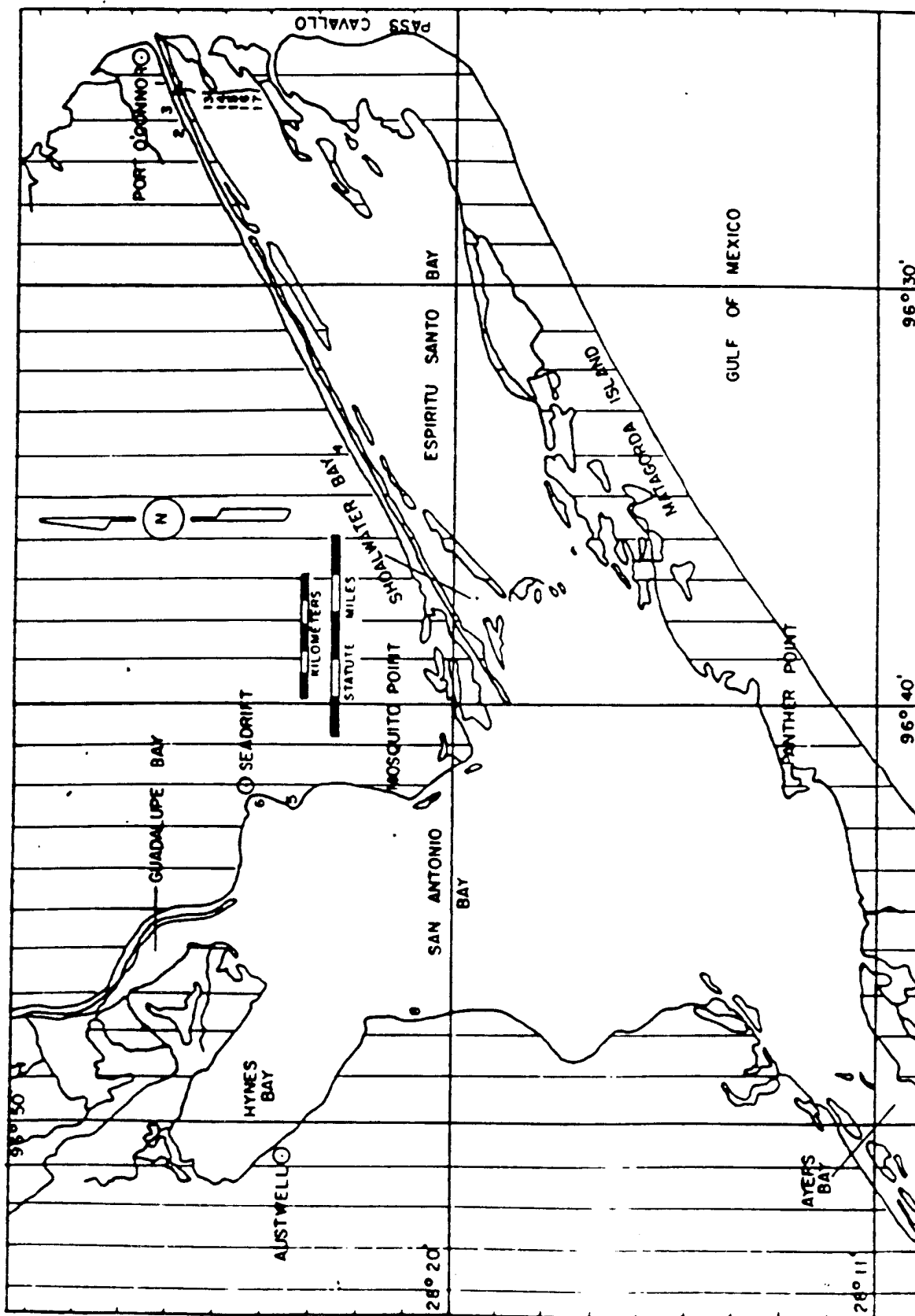


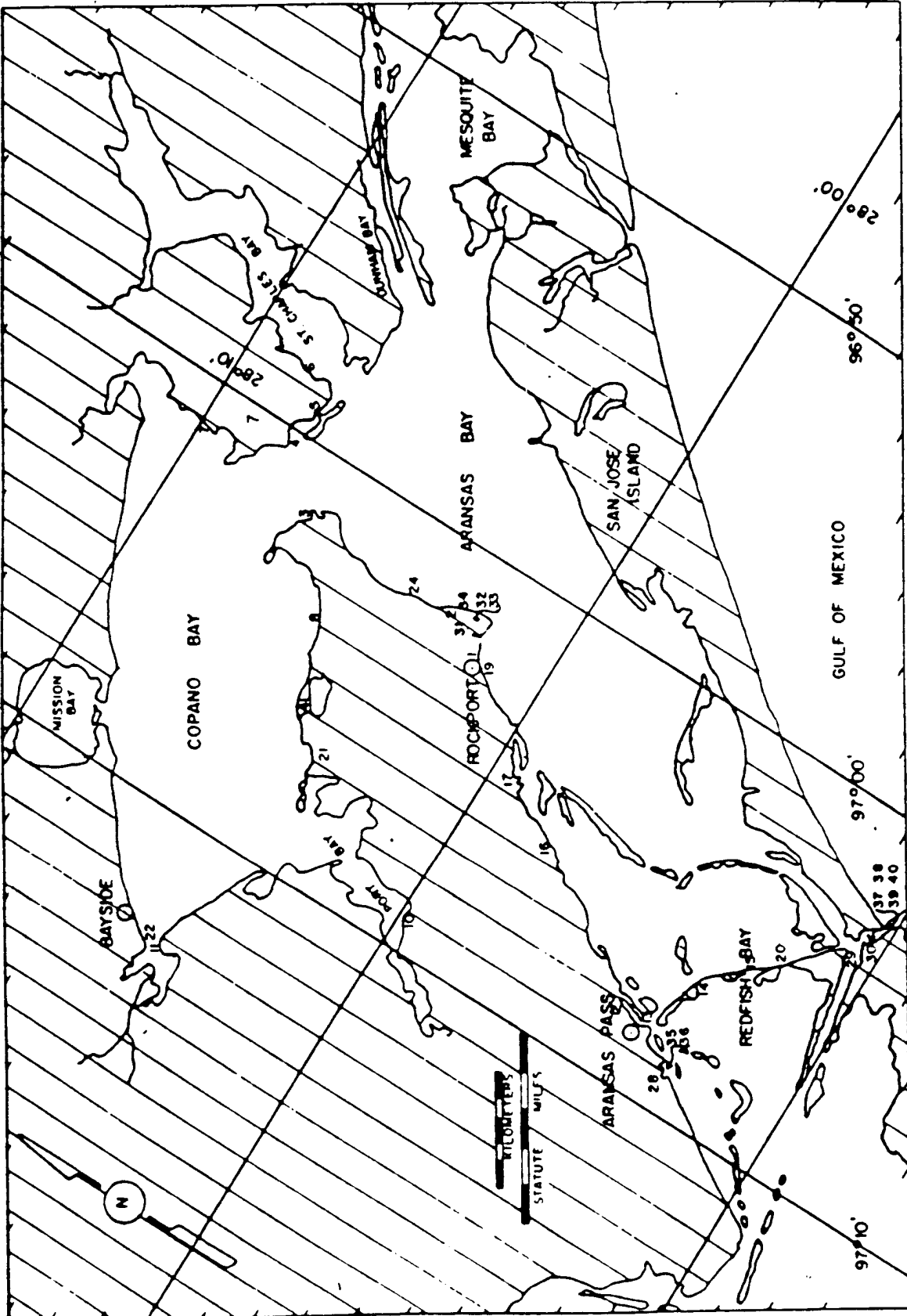


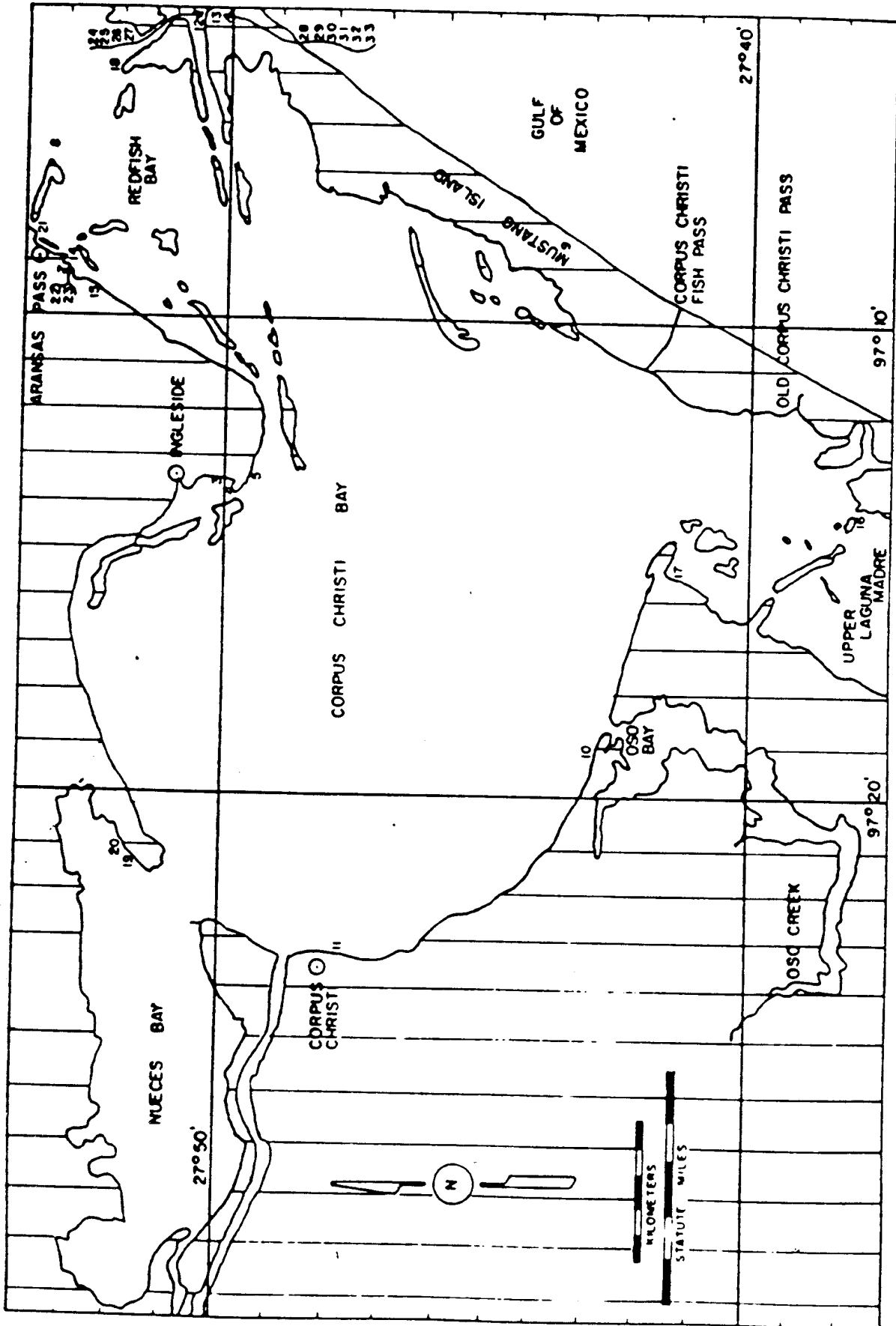


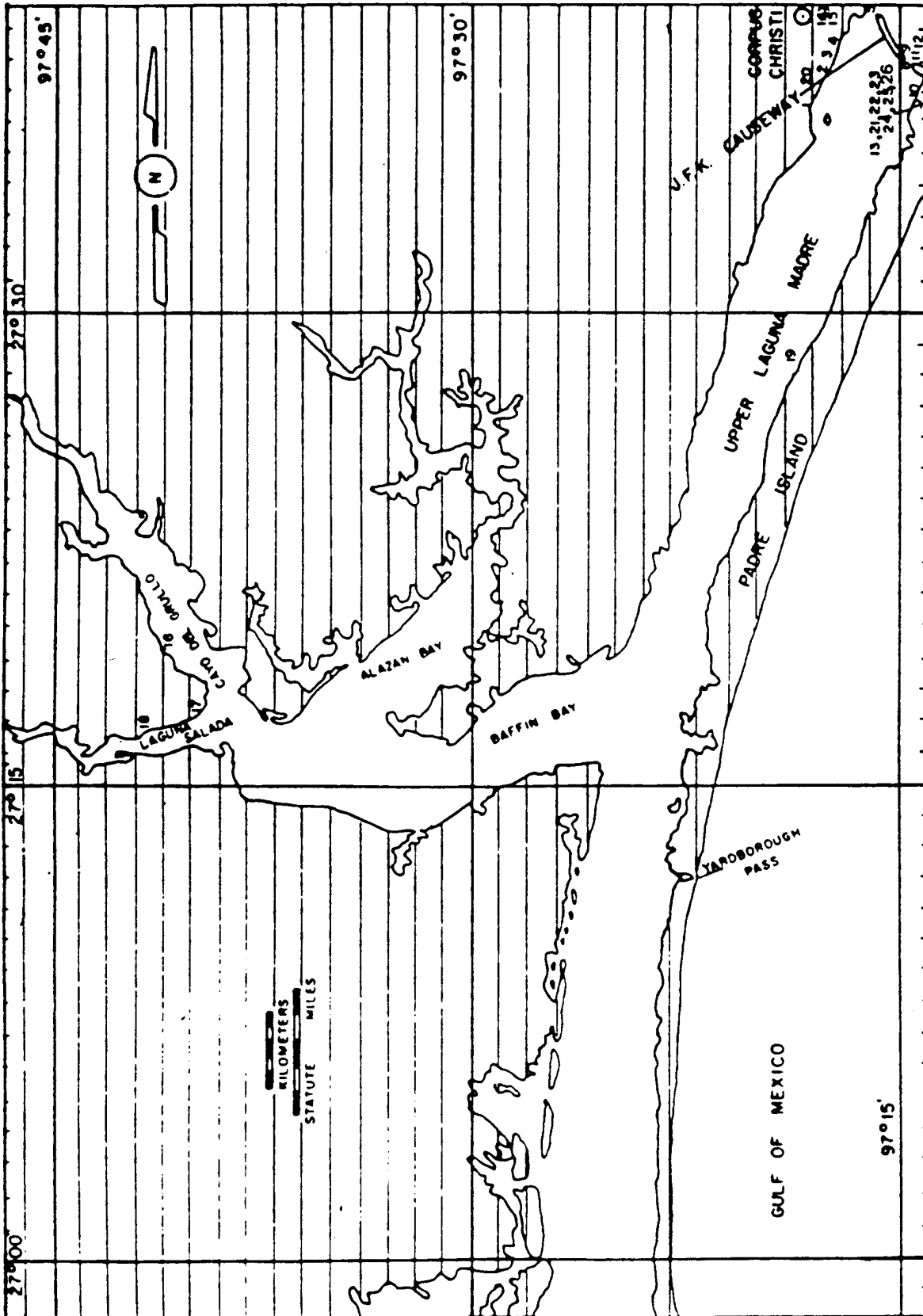


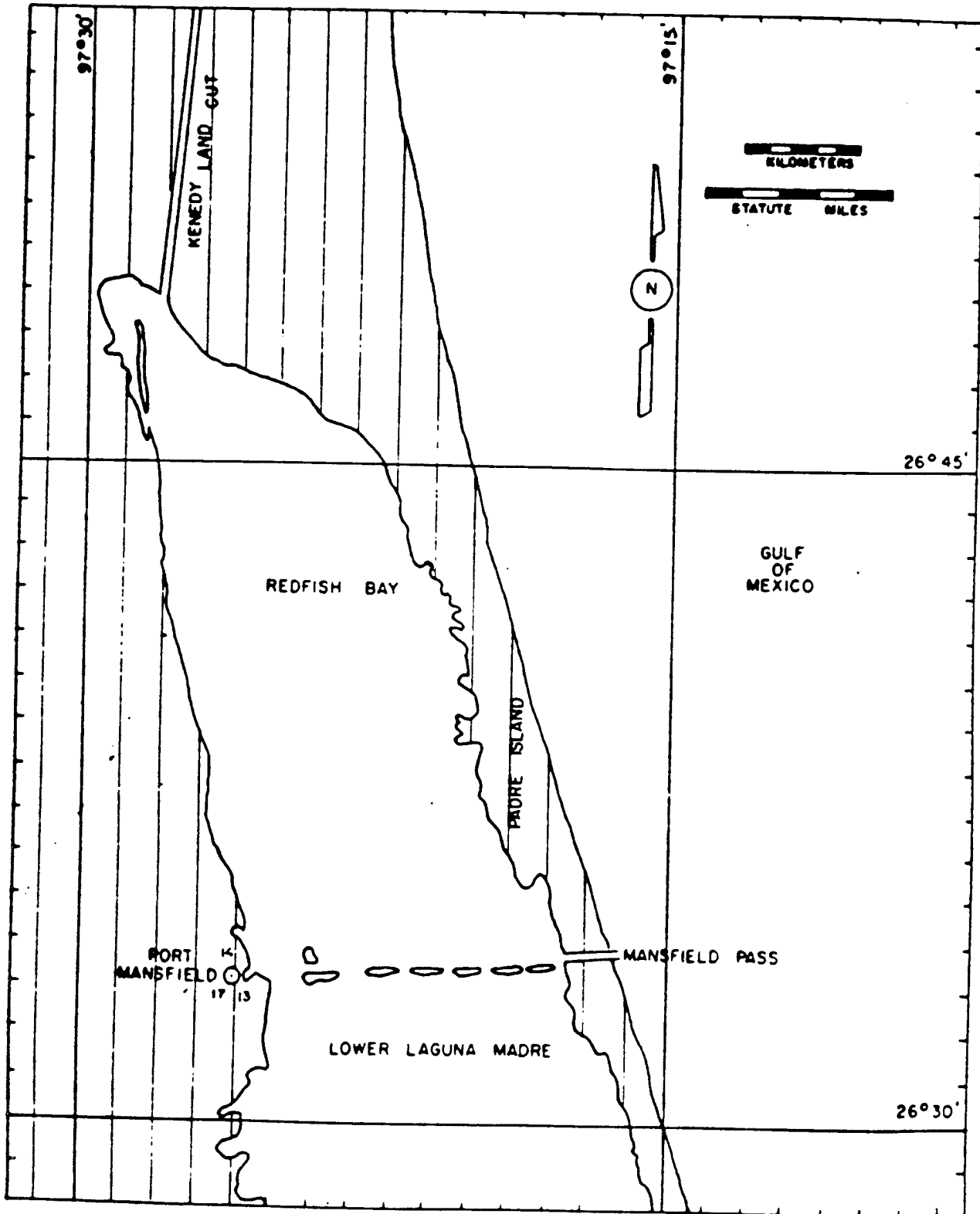












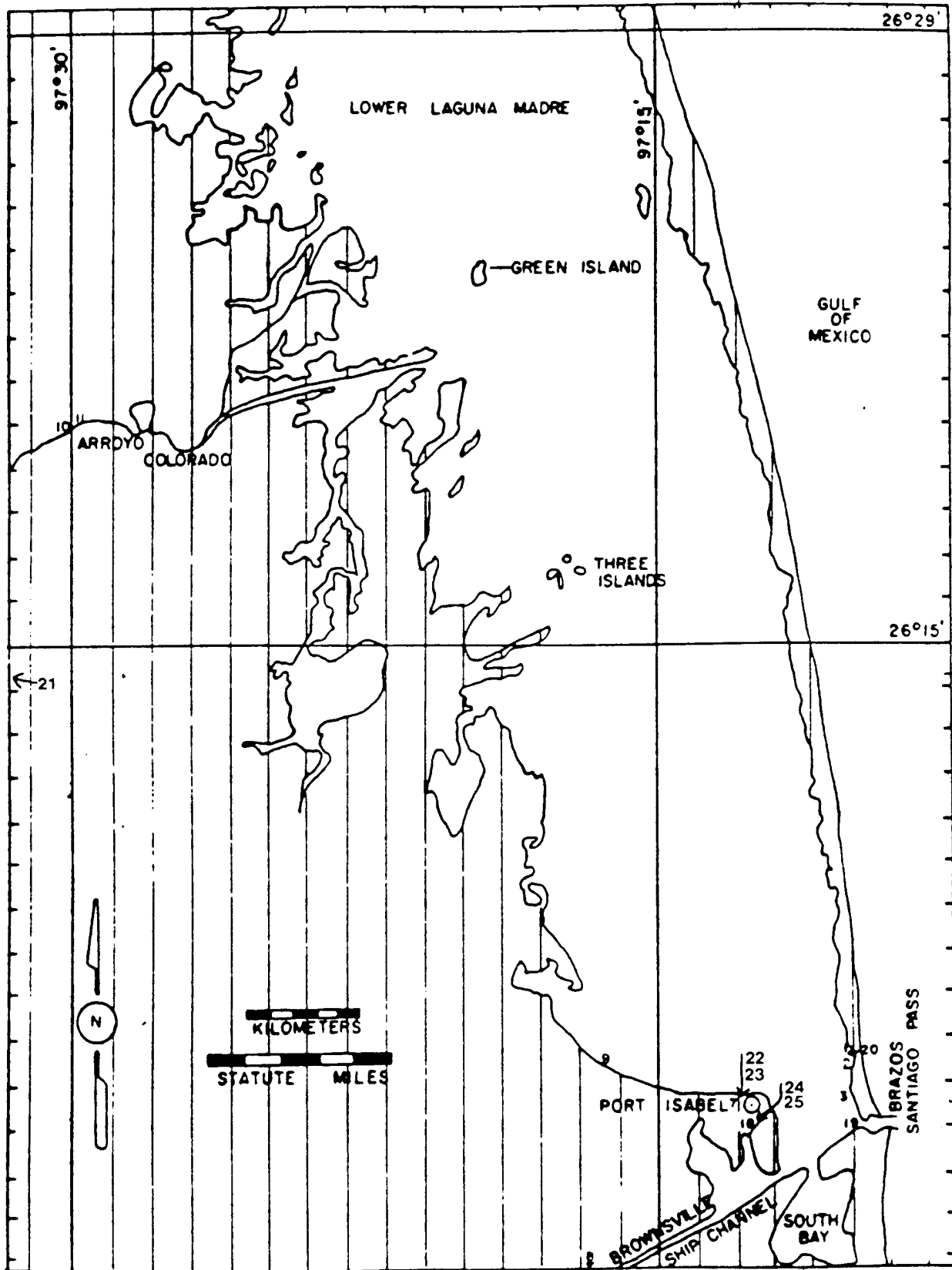


Table B.1. Boat-access sites in Texas bay systems (May 1974-May 1985). Bold type designates sites with wet slips or dry storage.

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston			(1)			(Cedar Bayou Outflow - Deleted 12/1/77)
	330	3	(2)	29°41'00"	94°52'00"	(Woodall's - Deleted 7/26/81)
	180	4		29°40'56"	94°56'09"	Crawleys Ramp - Members only
	330	5		29°43'20"	94°56'35"	Thompson's Ramp
	312	6		29°42'38"	95°00'24"	Roseland Park Ramp
	180	7		29°41'09"	94°59'03"	Tabb's Bay Ramp
	180	8		29°38'55"	95°00'42"	Morgan's Point Ramp
						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
	180	14		29°29'46"	94°54'36"	Eagle Point Camp Ramp
	180	15		29°28'19"	94°55'32"	April Fool Point lift (includes 35 wet slips)
	141	16		29°28'51"	94°56'10"	Marge's Bait Camp Ramp
				(17)		(Fiesta Marina-Deleted 11/20/82)
				(18)		(Lakeway Ramp and Simpson's Ramp - Deleted 5/15/84)
				(19)		(White Heron Resorts - Deleted 8/31/75)
				(20)		(Moses Lake Bait Camp - Deleted 11/21/82)
				(21)		(Mowles Camp Ramp - Deleted 5/15/84)
	180	22		29°23'28"	94°53'12"	C.C. Camp Ramp
				(23)		(Dollar Pt. Public Ramp - Deleted 8/31/75)
	180	24		29°23'20"	94°53'03"	Rilat's Ramp
						Dub's Ramp
	180	25		29°23'20"	94°53'01"	Curl's Ramp
	180	26		29°23'09"	94°52'21"	Public Ramp (Texas City Dike)
				(27)		(Public Ramp (Texas City Dike) - Deleted 5/15/84)
				(28)		(Public Ramp (Texas City Dike) - Deleted 5/15/84)
	180	29		29°22'00"	94°48'59"	Texas City Dike Marina Ramps
	201	30		29°18'23"	94°54'22"	Jones Lake State Boat Ramp
				(31)		(Infracoastal Inn - Deleted 9/1/78)
				(32)		(Terry's Lucky 7 - Deleted 10/1/79)
	201	33		29°19'50"	94°56'39"	Kelly's Ramp (includes rent boats)
201	34		29°19'54"	94°56'47"	Louis' Ramp (includes rent boats)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	191	35	(36)	29°17'06"	95°07'41"	Hall's Bayou Camp Ramp (Snug Harbor Marina - Deleted 12/1/78)
	100	37		29°15'11"	95°13'58"	Lute's Marina Boat Lift
	100	38		29°13'43"	95°12'31"	Chocolate Bay State Boat Ramp
	50	39		29°05'24"	95°16'39"	Marlin Marina Ramp
	50	40		29°05'37"	95°17'00"	State Ramp - Bastrop Bayou - (under bridge)
	50	41		29°04'53"	95°17'13"	Jack Booth's Ramp Bastrop Marina (includes boats in wet slips) (Shell Ramp (Christmas Bay) - Deleted 12/1/78)
	110	43	(42)	29°02'52"	95°09'56"	Sy's Bait Camp Ramp
						Galveston-Freepport Campground Ramp - (Deleted 11-21-84)
						(Public Launching - Shoreline - Deleted 9/1/80)
						(San Luis Pass Bait Camp - Deleted 5/15/82)
						Bay Harbor Ramps
350	47		29°07'45"	95°04'22"	Terramar Beach Ramp	
350	48		29°07'55"	95°03'49"	Sea Isle Ramps	
350	49		29°08'42"	95°02'48"	Jamaica Beach Marina Ramp	
350	50		29°12'00"	94°59'16"	Jamaica Beach Boat Ramp	
350	51		29°11'37"	94°58'56"	Boat Trailers at non-designated ramps	
350	52		29°12'13"	94°56'57"	Pirate's Beach Marina Ramp	
350	53		29°13'04"	94°56'34"	Pirate's Beach Boat Ramp	
350	54		29°15'38"	94°54'20"	Andy's Bait Camp Ramp	
350	55	(56)	29°17'03"	94°50'09"	(73rd Street County Park - Deleted 7/28/81)	
350	57	(58)			61st Street County Park Ramp	
					(Bayou Bay Marina - Deleted 9/1/79)	
					(Newell Marina Ramp - Deleted 5/15/84)	
					(M&M Camp - Deleted 9/1/79)	
350	61	(60)	29°17'14"	94°52'19"	Payco Marina Ramp (includes closest dock of wet slips, Dock B, 46 slips)	
350	62		29°17'18"	94°52'23"	Pleasure Island Ramp	
180	63		29°23'03"	94°46'05"	Jim Reid's Ramp	
180	64		29°23'04"	94°46'05"	Shirley's Cafeteria Ramp	
					(Johnson Road - Deleted 3/20/78)	
150	66	(65)	29°25'48"	94°42'37"	Bolivar Bait Camp Ramp (includes boats in 2 boat houses)	
50	67	(68)	29°05'10"	95°16'44"	2-J's Harbor (Demi-John) - Deleted 8/31/75; reopened 5/15/83 (B&P Camp - Deleted 7/15/81)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site Identification
		In use	Deleted			
Galveston	150	70	(69)	29°28'50"	94°36'16"	(Bob's Camp - Deleted 9/6/79) Stingaree Marina Ramp
	296	72	(71)	29°30'51"	94°30'45"	(Chocolate Bayou Marina - Deleted 8/31/75)
	330	73		29°32'09"	94°46'54"	Charles W. Lauderdale Public County Boat Ramp
	330	74		29°39'11"	94°41'35"	Smith Point Ramp (Van-to-Un and Robbin's Park)
	330	75		29°45'19"	94°41'29"	Oak Island County Ramp Fort Anahuac Park Ramp
	141	78	(76)	29°28'24"	94°57'17"	(Anahuac State Ramp - Deleted 12/1/78)
	063	79	(77)	29°48'17"	94°48'35"	(Will's - Deleted 11/21/82) Dickinson Bayou Public Ramp
	91	80		29°20'06"	94°45'07"	Cotton Lake Ramp
	91	81		29°20'02"	94°41'52"	South Jetty Ramp - Deleted 4/11/80; Reopened 10/3/81) Waddell's Ramp and Wilson's Ramp
	180	83	(82)	29°19'02"	94°46'32"	(North Galveston Jetty Ramp - Deleted 11/21/83) Galveston Yacht Basin Ramp
241	84		29°25'08"	94°55'34"	The Fish Spot Ramp	
123	85		29°33'51"	95°04'03"	Clear Lake Ramp	
142	86		29°25'19"	94°53'29"	Dollar Bay Ramp	
141	87		29°29'08"	94°55'58"	Cotton's Bait Camp Ramp	
172	88		28°59'53"	95°13'57"	Brazoria County Ramp 57 A (Third Street)	
150	89		29°35'41"	94°23'24"	High Island State Boat Ramp	
180	91	(90)	29°37'25"	95°00'34"	(San Jacinto Bay Bridge - Deleted 10/3/81) Shoreacres Ramp	
191	93	(92)	29°17'14"	95°08'01"	(Tiger Marina - Deleted 10/3/81) Hall's Bayou Bridge Ramp	
100	94		29°14'38"	95°13'59"	Horseshoe Bend Marina Ramp	
150	95		29°28'45"	94°36'16"	Charpiot Ramp - Opened 7/15/81	
201	96		29°19'49"	94°56'12"	Omega Bay Ramp - Opened 7/26/81	
50	97		29°04'56"	95°17'11"	Bastrop Bayou Private Ramp - Opened 7/26/81	
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		28°58'47"	95°16'05"	Brazoria County Ramp 57A (Bay Street, Freeport)	
172	102	(101)	28°57'22"	95°17'32"	(Bridge Harbor Marina Ramp (Freeport) - Deleted 5/15/84) State Ramp (Freeport) - (under ICWW bridge)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Galveston	560	103		28°52'30"	95°27'19"	Ducroz Ramp (Freeport)
	265	104		29°00'36"	95°19'34"	Oyster Creek Ramp (Freeport)
	570	105		28°57'42"	95°22'13"	City Ramp (in Freeport Municipal Park)(Freeport)
	266	106		28°57'21"	95°21'41"	City Ramp (by Community center/tennis courts) (Freeport)
	265	107		29°00'07"	95°18'26"	Turtle Cove Ramp (Freeport)
	560	108		28°52'35"	95°27'34"	Bennet's Motel Ramp
	560	109		28°52'11"	95°26'46"	Public Ramp (Freeport)
	91	110		29°20'02"	94°41'47"	Tugboat Eddies Ramp (Freeport)
	570	111		28°53'59"	95°23'03"	New Brazos River Ramp (at end of dike in Freeport)
	350	112		29°18'09"	94°53'58"	Harbor Cove Ramp - Deleted 5/15/84 - Reopened 11/21/84
	241	113		29°25'15"	94°55'34"	Ray Marine and Bait Camp Ramp
	123	114		29°33'00"	95°01'45"	Clear Lake Shores Ramp
	150	115		29°25'43"	94°42'07"	Boyt Road Boat Ramp
180	116		29°19'02"	94°46'32"	Galveston Yacht Basin Boat Barn (party boats)	
180	117		29°19'02"	94°46'32"	Galveston Yacht Basin Dock A (46 slips; party boats)	
180	118		29°19'02"	94°46'32"	Galveston Yacht Basin Dock B (116 slips; party boats)	
180	119		29°19'02"	94°46'32"	Galveston Yacht Basin Dock C (116 slips; party boats)	
180	120		29°19'02"	94°46'32"	Galveston Yacht Basin Dock D (116 slips; party boats)	
350	121		29°16'38"	94°50'48"	Pirates Cove Apts. Ramp	
350	122		29°15'47"	94°50'29"	Havre Lafitte Ramp	
530	123		29°04'33"	95°07'50"	Treasure Island Ramp	
					(124)	
					(125)	
265	126		29°00'08"	95°18'06"	(Turtle Cove North Shore Boat Shed - Deleted 5/15/84)	
172	127		29°00'28"	95°18'57"	(Turtle Cove South Shore Boat Shed-Deleted 5/15/84)	
50	128		29°05'48"	95°16'59"	Hide-A-Way on the Gulf Ramps	
50	129		29°05'24"	95°16'39"	Kirby Marina (72 wet slips)	
100	130		29°14'38"	95°13'59"	B&H Bait Camp Ramp	
321	131		29°34'27"	95°03'05"	Marlin Marina Boat Shed (14 wet slips)	
172	132		28°57'46"	95°17'34"	Horseshoe Bend Camp Boat Shed (22 wet slips)	
172	133		28°57'46"	95°17'34"	Timber Cove Subdivision Ramp (Taylor Lake)	
					Bridge Harbor Canal Front Slips (30 slips; party boats)	
					Bridge Harbor Canal Dock A (32 slips; party boats)	
					- Deleted 5/15/84 - Reopened 11/21/84	
172	134		28°57'46"	95°17'34"	Bridge Harbor Canal Dock B (32 slips; party boats)	
172	135		28°57'46"	95°17'34"	Bridge Harbor Canal Dock C (32 slips; party boats)	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification	
		In use	Deleted				
Galveston	172	136		28°57'46"	95°17'34"	Bridge Harbor Canal Dock D (36 slips; party boats)	
	172	137	(138) (139)	28°57'46"	95°17'34"	Bridge Harbor Canal Dock E (40 slips; party boats) (Harbor Cove Wet Slips (50 wet slips) - Deleted 5/15/84) (Payco Marina Boat Shed and Second Dock of Wet Slips) (Dock C (24 wet slips) - Deleted 11/21/84)	
	100	140		29°15'11"	95°13'58"	Lutes Marina Ramp and Boat House (40 wet slips; party boats)	
	172	141		28°57'31"	95°18'16"	Beach, Bait and Tackle Ramp	
	180	142		29°29'47"	94°54'58"	San Leon Marina Boat Sheds (2 boat sheds; party boats)	
	180	143		29°17'39"	94°51'23"	Bonno's Bait Camp Ramp	
	180	144		29°35'51"	94°59'10"	El Jardin Ramp	
	570	145		29°01'50"	95°11'51"	Freeport City Ramp (on New Brazos across from Municipal Park)	
	110	146		29°22'00"	94°48'59"	Key Largo	
	180	147		29°01'54"	95°01'48"	Texas City Dike Marina Lift	
	110	148		29°01'50"	95°11'52"	Public Ramp (just East of Cedar Cut)	
	110	149		28°57'46"	95°17'34"	Public Ramp (just West of Cedar Cut)	
	172	150				Bridge Harbor Pool Side Dock (26 slips across from fuel docks)	
	Matagorda	360	1		28°25'55"	96°26'04"	Doc's Dock Ramp
		360	2		28°26'23"	96°24'52"	Fishing Center Ramp
		360	3	(4)	28°26'12"	96°25'26"	Bobbie's Ramp (includes boats in wet slips and La Pesca party boats) (Indianola Fishing Center Ramp (includes boats in wet slips - Deleted 5/15/84)
		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"	Olivia Ramp (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 - Deleted 5/15/80 - Reopened 5/15/84	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Matagorda	320	16	(17)	28°42'20"	96°12'32"	East Bay Ramp (Grassy Point - Deleted 3/13/78)
	320	18		28°40'10"	96°11'00"	Palacios River Ramp
	590	19		28°40'14"	95°57'52"	River Bend Ramp
	590	20		28°38'22"	95°58'02"	Al's Ramp (Gilmer's - Deleted 8/17/79; Reopened 5/15/81; Deleted 6/15/82)
	590	22		28°37'04"	95°58'24"	Rawlings Ramp (UFO Ramp - Deleted 5/15/84)
	160	24		28°46'20"	95°38'04"	Plunks Bait Camp (includes boats in wet slips)
	160	25		28°46'16"	95°37'03"	Totsies' Marina Ramp (includes boats in wet slips) (Cherry's Ramp - Deleted 5/15/84) (Bulkhead Marina - Deleted 5/15/80)
	160	28		28°45'28"	95°46'23"	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)
	320	34		28°43'46"	96°11'10"	Collegeport Ramp
	210	35		28°41'15"	96°16'27"	Jensen's Point Ramp
	60	36		28°39'30"	96°24'54"	Port Alto Boat Shed (107 wet slips; 2 sheds, 54 and 53)
	220	37		28°39'38"	96°35'03"	East End of Port Lavaca Causeway (launching from shore)
	271	38	(39)	28°28'47"	96°33'05"	Powerhorn Bayou (launching from shore) (Fishing Center Boat Sheds (2 boat sheds with 26 wet slips; party boats included) - Deleted 5/15/84)
	360	41	(40)	28°26'16"	96°24'57"	Not previously assigned
	360	42		28°26'17"	96°25'00"	McKinney Boat Sheds (8 wet slips)
	360	43		28°26'12"	96°25'17"	Power's Boat Sheds (35 set slips)
	360	44		28°26'11"	96°25'18"	Alligator Head East Boat Sheds (20 wet slips)
	360	45		28°26'00"	96°25'48"	Alligator Head West Boat Sheds (49 wet slips) Weathersby's Boat Sheds (40 wet slips; 1 party boat)
	160	46		28°41'17"	95°57'56"	Bridgekeeper Ramp
	590	47		28°45'44"	96°00'04"	Selkirk Island Ramp
		52				Boat trailers at non-designated ramps

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
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
	170	13		28°26'16"	96°24'57"	McKinney Boat Sheds (8 wet slips)
	170	14		28°26'17"	96°25'00"	Power's Boat Sheds (35 wet slips; 1 party boat)
	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)
	52				Boat trailers at non-designated ramps	
Arkansas	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
	280	12		27°54'47"	97°08'00"	Arkansas Pass Boat Basin Ramp
	280	13		27°53'58"	97°08'14"	Louie's Bait Hut Ramp
	284	14		27°53'18"	97°06'42"	Fin & Feather Marina

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Latitude	Longitude	Site identification
		In use	Deleted			
Aransas	285	15		27°52'55"	97°05'57"	Redfish Bay Marina Ramp (includes rent boats and boats in wet slips)
	280	16		27°58'04"	97°05'21"	Palm Harbor Ramp (includes boats in wet slips)
	280	17		27°59'23"	97°04'42"	Cove Harbor Ramp
			(18)			(Port Bay - Deleted 11/20/82)
	20	19		28°01'28"	97°02'57"	Rockport Turning Basin Ramp (includes boats in boat basin wet slips)
	285	20		27°52'09"	97°05'51"	Bait Hut Ramp
	120	21		28°03'48"	97°06'40"	Pouzee's Ramp
	120	22		28°04'34"	97°13'10"	Bayside Public Ramp - Deleted 12/1/80; Reopened 11/20/82)
			(23)			(Hogan's Ramp - Deleted 5/15/84)
	20	24		28°04'23"	97°02'07"	Sand Dollar Ramp
			(25)			(Key Allegro Marina - Deleted 5/15/82)
			(26)			(Key Allegro North Ramp - Deleted 12/1/80)
			(27)			(Racquet Club - Deleted 5/15/82)
	284	28		27°53'22"	97°08'53"	Aransas 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)	
120	41		28°04'34"	97°06'00"	Kellers Marina Boat Ramp	
	52				Boat trailers at non-designated ramps	

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Longitude	Latitude	Site identification
		In use	Deleted			
Corpus Christi	260	1		97°22'52"	27°50'16"	South Nueces Causeway Ramp
	130	3	(2)	97°13'15"	27°50'16"	(North Nueces Causeway - Deleted 10/27/80)
	130	4		97°13'29"	27°49'52"	Ingleside Cove State Ramp
	130	5		97°12'58"	27°49'21"	Bahia Mar Ramp (includes wet slips) Channel View Ramp
	284	7	(6)	97°08'53"	27°53'22"	(Warrens - Deleted 5/15/79)
	284	8		97°06'42"	27°53'18"	Aransas Airport Ramp
	130	9		97°08'13"	27°44'14"	Fin & Feather Marina
	130	10		97°18'35"	27°42'39"	Wilsons Cut Ramp
	130	11		97°23'22"	27°47'24"	Oso Bridge Ramp - (Deleted 10/27/80; Reopened 6/1/82)
	96	12		97°04'00"	27°50'19"	L-Head Ramp
	96	13		97°03'44"	27°50'18"	Port Aransas Public Ramp
	284	14		97°08'44"	27°53'19"	Woody's Ramp
	284	15		97°10'07"	27°51'26"	Causeway Ramp (includes 6 wet slips)
	370	16		97°14'09"	27°38'02"	Sun Oil Co. - (Deleted 11/20/81; Reopened 11/20/82)
	370	17		97°15'31"	27°41'10"	Billings's Ramp
	285	18		97°05'57"	27°52'55"	Naval Ramp (includes boats in boat houses and in wet slips)
	260	19		97°21'30"	27°51'14"	Redfish Bay Marina Ramp (includes rent boat and boats in wet slips)
	260	20		97°21'04"	27°51'31"	Gunderland Marina Ramp
	280	21		97°08'14"	27°53'58"	Portland Shell Bank Ramp
	284	22		97°08'48"	27°53'22"	Louie's Bait Stand Ramp
	284	23		97°08'59"	27°53'22"	Harbor East with Marnot and Mac
	96	24		97°03'53"	27°50'21"	Harbor West
	96	25		97°03'50"	27°50'22"	West City Docks (2 docks with 53 net slips; party boats)
	96	26		97°03'59"	27°50'15"	East City Docks (2 docks and bulkhead with 88 wet slips; party boats)
	96	27		97°03'54"	27°50'17"	Deep Sea Headquarters (11 party boat wet slips)
	96	28		97°03'42"	27°50'18"	Dolphin Docks (6 party boat wet slips)
	96	29		97°03'40"	27°50'18"	Woody's West Docks (3 docks with 48 wet slips; party boats)
	96	30		97°03'37"	27°50'19"	Woody's East Docks (3 docks with 57 wet slips; party boats)
	96	31		97°03'37"	27°50'19"	Sportsmen Center South (1 dock with 40 wet slips; party boats)
	96	32		97°03'33"	27°50'21"	Sportsmen Center North (1 dock with 26 wet slips; party boats)
	93	33		97°03'11"	27°50'22"	Fisherman's Wharf (5 party boat wet slips)
	52				27°50'15"	U.T. Boat Basin (42 wet slips)
						Boat trailers at non-designated ramps

Table B.1. (Cont'd.)

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

Table B.1. (Cont'd.)

Bay system	Minor bay	Site number		Longitude	Latitude	Site identification
		In use	Deleted			
Lower Laguna Madre	230	7	(4)	97°12'07"	26°05'03"	(Jetties - Deleted 5/15/80)
	294	8	(5)	97°17'55"	26°00'07"	(Marchan's - Deleted 9/1/78)
	230	9	(6)	97°17'25"	26°06'12"	(Port Isabel - Deleted 9/1/76)
	262	10		97°27'15"	26°19'35"	White Sands Ramp (includes boats in wet slips)
	262	11		97°26'35"	26°20'10"	San Martin Ramp
	230	13	(12)	97°25'40"	26°33'10"	Laguna Vista Ramp (includes boats in wet slips)
	282	14	(15)	97°25'41"	26°33'20"	Arroyo Colorado Ramp
	230	17	(16)	97°25'40"	26°33'05"	Sanchez Ramp
	230	18		97°12'12"	26°04'42"	(Al's Place - Deleted 3/27/82)
	230	19		97°09'56"	26°04'36"	Willacy Navigation District Ramp
	230	20		97°10'04"	26°05'55"	Port Mansfield State Ramp
	262	21		97°35'00"	26°14'15"	(Redfish Motel Ramp (includes boats in wet slips - Deleted 5/15/84))
	230	22		97°12'55"	26°04'30"	(South Padre Marina - Deleted 3/27/82)
	230	23		07°12'54"	26°04'25"	Port Mansfield Boat Basin (includes boats in wet slips; party boats)
	230	24		97°12'35"	26°03'52"	Port Isabel Channel East Side (includes 45 wet slips in boat shed)
	230	25		97°12'33"	26°03'55"	Sea Ranch Motel (includes boat shed and wet slips)
	52					Palm Bay Pier Ramp (includes 15 wet slips)
						Rio Hondo State Ramp
						Port Isabel City Ramp
						Travelers Trailer Park Ramp
						Southpoint Marina Ramp
						Southpoint Wet Slips (30 wet slips)
						Boat trailers at non-designated ramps

Table B.2. Headboat sites for May 1984-May 1985.

Major area and type	Passenger capacity	Code in use	Code deleted	Minor bay	Headboat identification
Galveston (Bay)	76	86	(81)	180	Kemah Clipper (Deleted 3-24-84)
	80	95			Lafitte (Added 9-1-82)
	90	85			Judy Beth (Added 12-3-81) Old Buccaneer (Added 5-15-84)
Galveston (Gulf)	100	84		180	New Buccaneer
	90			180	Old Buccaneer (deleted 5-14-84)
	65	87		180	Texsun II
	30	88		266	Bear Cat
	40		(89)	266	Lady Lari (Deleted 3-24-84)
	60	90		266	Capt. Casey
	120	93		180	Ranger 5
	50		(94)	172	Miss Vicki (Deleted 3-12-84)
	25		(96)	172	Miss Tamara (Added 3-82; deleted 3-12-84)
	25	97		266	Cobia (Added 5-82)
			(98)	266	Blue Fin (Deleted 3-24-84)
			(99)	266	Nancy Ann (Deleted 3-24-84)
		40	100		266
	20	101		266	Nina Ruth (Added 6-6-84)
	85	102		266	Cavalry (Added 8-1-84)
Aransas/Corpus Christi (Bay)	50	81		20	Whooping Crane
			(82)	20	Mary Lou (Deleted 9-28-83)
	100	89		130	Capt. Clark
	89	91		130	Star Trek
	30	94		20	Pisces (Added 5-15-84)
Aransas/Corpus Christi (Gulf)	93	83		96	Wharf Cat
	20	84		96	Pelican
	30	87		96	Dolphin
	93	92		96	Scat Cat
	25	93		96	Dolphin Express (Added 3-28-84)
			(94)	96	Pisces (Deleted 3-28-84)
	30	95		96	Kingfisher
Lower Laguna Madre (Bay)	75	81		230	Laguna Queen
	30	83		230	Albatross
	48	84		230	Danny B
	74		(88)	230	Majestic (Deleted 5-15-84)
Lower Laguna Madre (Gulf)	48	82		230	Thunderbird III
	19	85		230	Risa Ann
	32	87		230	Miss Hospitality

Table B.3. Major area and minor bay codes for Texas marine waters (May 1974 - May 1985).

Major area Minor bay	Code
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.)	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.)	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.)	2
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	
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.)	
Corpus Christi Bay	130
Nueces Bay	260
Oso Bay	263
Redfish Bay (a line running from the ICWW at the southwest end end of the Dagger Island chain, along Dagger Island to the Southeast tip of South Ransom Island, then due East to Harbor Island)	274
Sunset Lake	314
Water Exchange Channel (area between junction with Corpus Christi Bay and Gulf of Mexico surfline)	680
Upper Laguna Madre System	7
Alazan Bay	10
Baffin Bay	40
Cayo Del Grulla Bay	80
Laguna Salada	211
Upper Laguna Madre	370
Corpus Christi Pass (area between junction with Upper Laguna Madre and Gulf of Mexico surfline)	690
Lower Laguna Madre System	8
Brownsville Ship Channel (area from Marker 30 to Port Brownsville Turning Basin)	41
Port Mansfield Channel (area between Marker 12 and end of jetties)	97
Brazos Santiago Channel (area between a line drawn from the Radio Beacon due south to Brazos Island to the end of the jetties)	99
El Realito Bay	151
Lower Laguna Madre	230
Arroyo Colorado (includes all waters downstream from Port Harlingen to the junction with the ICWW)	262
Redfish Bay (includes all water between the Port Mansfield Channel and the Land Cut)	282
San Martin Lake	294
South Bay	313
East Matagorda Bay System (used by resource monitoring project only)	9

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

Estimation of Weekday Pressure and Landings
for Private-Boat Fishermen

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

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

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

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

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

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

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

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

Species Season	Year	Bay system									
		Galveston	Matagorda	Antonio	San Antonio	Aransas	Christi	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 (1974-85). ND = no data.

Year Season	Bay System										Coastwide
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower		
			Galveston	Matagorda			Laguna Madre	Laguna Madre			
1974-75											
High use	7 (865)	ND	13 (1259)	7 (238)	ND	9 (459)	ND	36 (2821)			
Low use	11 (312)	ND	19 (471)	12 (199)	ND	12 (346)	ND	54 (1328)			
Annual	18 (1177)	ND	32 (1730)	19 (437)	ND	21 (805)	ND	90 (4149)			
1975-76											
High use	ND	5 (99)	ND	ND	5 (121)	ND	5 (181)	15 (401)			
Low use	ND	9 (130)	ND	ND	11 (202)	ND	10 (253)	30 (585)			
Annual	ND	14 (229)	ND	ND	16 (323)	ND	15 (434)	45 (986)			
1976-77											
High use	15 (541)	17 (264)	8 (344)	8 (306)	15 (492)	8 (290)	17 (732)	88 (2969)			
Low use	29 (235)	17 (109)	13 (184)	14 (168)	16 (305)	15 (147)	15 (373)	119 (1521)			
Annual	44 (776)	34 (373)	21 (528)	22 (474)	31 (797)	23 (437)	32 (1105)	207 (4490)			
1977-78											
High use	34 (1285)	16 (471)	18 (826)	17 (481)	16 (429)	16 (299)	16 (706)	133 (4497)			
Low use	31 (486)	15 (231)	14 (435)	16 (178)	15 (223)	15 (323)	16 (601)	122 (2477)			
Annual	65 (1771)	31 (702)	32 (1261)	33 (659)	31 (652)	31 (622)	32 (1307)	255 (6974)			
1978-79											
High use	32 (1817)	17 (596)	18 (962)	16 (380)	18 (500)	17 (596)	17 (700)	135 (5551)			
Low use	32 (532)	15 (106)	15 (448)	16 (164)	14 (183)	16 (338)	15 (311)	123 (2082)			
Annual	64 (2349)	32 (702)	33 (1410)	32 (544)	32 (683)	33 (934)	32 (1011)	258 (7633)			
1979-80											
High use	27 (913)	18 (433)	21 (1010)	17 (308)	18 (475)	15 (474)	17 (666)	133 (4279)			
Low use	15 (173)	12 (286)	21 (650)	14 (107)	15 (545)	16 (463)	15 (485)	108 (2709)			
Annual	42 (1086)	30 (719)	42 (1660)	31 (415)	33 (1020)	31 (937)	32 (1151)	241 (6988)			
1980-81											
High use	17 (870)	17 (535)	22 (1099)	17 (322)	17 (583)	18 (1076)	17 (690)	125 (5175)			
Low use	8 (96)	8 (71)	9 (231)	9 (91)	8 (302)	7 (256)	8 (342)	57 (1389)			
Annual	25 (966)	25 (606)	31 (1330)	26 (413)	25 (885)	25 (1332)	25 (1032)	182 (6564)			

Table D.1. (Cont'd.)

Year Season	Bay System											
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre		Coastwide	
			27	21			27	27	27	23		23
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)	10 (24)	12 (174)	12 (133)	12 (243)	83 (1047)				
Annual	44 (693)	44 (835)	38 (1581)	41 (897)	43 (1114)	43 (2789)	43 (2014)	296 (9923)				
1984-85												
High use	31 (1672)	31 (1399)	25 (1025)	31 (820)	31 (666)	31 (683)	31 (1660)	211 (7924)				
Low use	12 (161)	11 (407)	12 (265)	12 (198)	12 (298)	12 (326)	12 (410)	83 (2065)				
Annual	43 (1833)	42 (1806)	37 (1290)	43(1018)	43 (964)	43 (1009)	43 (2070)	294 (9989)				

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 (1974-1985). ND = no data.

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

Table D.2. (Cont'd.)

Year Season	Bay System															
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
1982-83																
High use	66	(811)	61	(468)	55	(719)	61	(439)	61	(738)	61	(810)	55	(1221)	420	(5206)
Low use	24	(183)	24	(91)	24	(341)	24	(155)	24	(150)	24	(183)	24	(684)	168	(1787)
Annual	90	(994)	85	(559)	79	(1060)	85	(594)	85	(888)	85	(993)	79	(1905)	588	(6993)
1983-84																
High use	63	(720)	62	(949)	45	(877)	64	(845)	64	(994)	66	(1390)	66	(1326)	430	(7101)
Low use	24	(130)	23	(100)	21	(74)	22	(114)	24	(104)	24	(54)	24	(180)	162	(756)
Annual	87	(850)	85	(1049)	66	(951)	86	(959)	88	(1098)	90	(1444)	90	(1506)	592	(7857)
1984-85																
High use	65	(965)	65	(659)	46	(416)	65	(586)	66	(724)	66	(372)	66	(981)	439	(4703)
Low use	24	(109)	24	(163)	22	(67)	22	(135)	23	(117)	24	(72)	24	(223)	165	(886)
Annual	89	(1074)	89	(822)	87	(483)	87	(721)	89	(841)	90	(444)	90	(1204)	604	(5584)

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 1985.

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
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
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

Table D.3. (Cont'd.)

Bay system	High-use season		Low-use season		Annual
	a		a		
	Weekend	Weekday	Weekend	Weekday	
Aransas					
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
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
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

Table D.3. (Cont'd.)

Bay system	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
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

^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) ± 1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1974-1985).

Species Year	Bay system													
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper		Lower	
											Laguna Madre	Laguna Madre	Coastwide ^a	
Atlantic croaker														
1974-76	699.1 ± 308.9	19.7 ± 9.5	6.0 ± 2.1	3.8 ± 2.2	12.5 ± 5.5	152.4 ± 86.5	11.9 ± 5.8	905.4 ± 220.2						
1976-77	536.0	26.6	1.2	6.4	21.2	33.9	17.5	642.8						
1977-78	875.2	24.1	1.0	4.1	16.2	34.9	11.3	966.8						
1978-79	481.8	25.0	2.8	1.2	16.8	67.8	9.0	604.4						
1979-80	250.5 ± 89.9	8.3 ± 3.1	2.0 ± 1.0	1.5 ± 0.8	11.8 ± 4.5	106.8 ± 57.6	2.3 ± 0.6	383.2 ± 106.9						
1980-81	372.2 ± 197.9	48.3 ± 24.2	1.6 ± 0.7	1.5 ± 0.5	149.1 ± 118.3	30.6 ± 8.1	7.4 ± 3.0	610.7 ± 232.0						
1981-82	192.8 ± 48.1	6.6 ± 2.2	0.6 ± 0.3	1.3 ± 0.5	41.9 ± 22.1	29.3 ± 8.7	3.0 ± 0.7	275.6 ± 53.8						
1982-83	179.5 ± 32.4	7.8 ± 2.2	1.2 ± 0.4	6.9 ± 3.9	20.2 ± 5.6	25.6 ± 13.5	8.0 ± 1.6	249.2 ± 35.8						
1983-84	159.4 ± 36.1	11.4 ± 3.8	1.4 ± 0.5	38.6 ± 14.6	38.3 ± 13.2	26.7 ± 5.2	4.6 ± 0.8	280.2 ± 41.6						
1984-85	214.0 ± 42.0	7.1 ± 2.0	0.3 ± 0.2	4.8 ± 1.8	8.1 ± 2.7	2.6 ± 0.9	4.1 ± 1.5	241.0 ± 42.2						
Black drum														
1974-76	35.2 ± 11.4	20.5 ± 12.2	2.9 ± 0.9	18.2 ± 14.7	13.9 ± 5.4	12.5 ± 6.2	25.1 ± 13.5	128.3 ± 14.7						
1976-77	67.0	15.6	37.0	7.2	5.9	16.3	9.9	159.0						
1977-78	111.9	26.2	8.1	5.2	5.6	8.3	12.8	178.1						
1978-79	94.8	20.4	5.6	1.8	2.8	6.2	18.0	149.6						
1979-80	37.2 ± 10.1	13.4 ± 6.3	2.0 ± 0.7	9.8 ± 5.8	3.6 ± 1.4	7.1 ± 5.7	4.3 ± 1.8	77.4 ± 14.6						
1980-81	87.1 ± 31.7	44.7 ± 15.5	2.5 ± 0.8	1.7 ± 0.8	8.3 ± 2.7	7.0 ± 2.5	6.4 ± 2.6	157.7 ± 35.6						
1981-82	59.9 ± 20.7	24.8 ± 4.9	9.0 ± 4.4	15.6 ± 5.0	8.6 ± 3.0	9.2 ± 3.7	5.5 ± 1.7	132.6 ± 22.9						
1982-83	105.8 ± 37.5	24.6 ± 5.7	4.2 ± 1.3	8.2 ± 3.0	11.5 ± 2.9	9.0 ± 2.1	7.9 ± 1.7	171.2 ± 38.3						
1983-84	26.7 ± 5.8	22.4 ± 5.0	3.4 ± 1.2	11.5 ± 3.2	8.0 ± 2.1	3.0 ± 1.0	6.2 ± 2.1	81.1 ± 9.0						
1984-85	24.2 ± 4.9	13.8 ± 3.6	1.7 ± 0.6	5.9 ± 5.4	3.8 ± 1.5	0.7 ± 0.4	5.1 ± 2.5	55.2 ± 8.7						
Gafftopsail catfish														
1974-76	42.8 ± 30.1	17.6 ± 10.3	4.2 ± 1.5	12.7 ± 8.4	3.3 ± 3.0	0.0	0.0	80.6 ± 21.7						
1976-77	17.6	43.0	6.2	3.8	6.9	0.0	<.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 ± 2.0	1.4 ± 0.7	1.1 ± 0.4	0.1 ± 0.1	4.1 ± 2.7	0.2 ± 0.2	0.0	10.2 ± 3.4						
1980-81	14.5 ± 8.6	1.5 ± 0.8	0.6 ± 0.3	0.6 ± 0.3	1.9 ± 0.9	<.1 ± <.1	0.1 ± 0.1	19.1 ± 8.7						
1981-82	4.2 ± 2.1	7.0 ± 3.0	0.9 ± 0.5	3.3 ± 1.8	16.5 ± 14.1	0.3 ± 0.2	<.1 ± <.1	32.2 ± 14.7						
1982-83	5.2 ± 2.4	3.8 ± 1.2	3.1 ± 0.9	1.8 ± 0.7	6.9 ± 2.2	<.1 ± <.1	0.1 ± 0.1	21.0 ± 3.7						
1983-84	3.3 ± 1.6	4.9 ± 2.2	1.8 ± 0.7	2.3 ± 0.7	6.5 ± 3.0	0.2 ± 0.1	0.1 ± 0.1	19.1 ± 4.1						
1984-85	2.3 ± 0.9	4.3 ± 1.2	2.2 ± 0.9	1.9 ± 0.7	0.8 ± 0.3	0.2 ± 0.2	0.1 ± 0.1	11.7 ± 1.9						

Table D.4. (Cont'd.)

Species Year	Bay system											Coastwide ^a	
	San Antonio					Corpus Christi			Upper		Lower		
	Galveston	Matagorda	Aransas	Aransas	Christi	Laguna	Madre	Laguna	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	46.8 ± 8.9	29.9 ± 5.4	34.2 ± 6.1	20.3 ± 4.6	13.3 ± 1.5	28.8 ± 3.7	198.5 ± 14.5					
1984-85	20.8 ± 5.2	9.2 ± 2.8	7.5 ± 3.0	17.1 ± 4.1	15.2 ± 4.1	3.8 ± 0.9	22.4 ± 3.9	96.0 ± 9.7					
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	34.9 ± 12.5	3.6 ± 0.9	29.1 ± 9.4	96.1 ± 24.4	12.1 ± 3.4	9.6 ± 2.7	349.9 ± 73.8					
1984-85	303.3 ± 81.5	13.9 ± 7.8	2.6 ± 1.1	23.7 ± 8.9	24.0 ± 7.6	10.6 ± 4.0	24.7 ± 9.8	402.7 ± 83.4					
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	20.1 ± 9.5	3.6 ± 0.8	16.0 ± 7.0	3.9 ± 1.0	2.2 ± 0.4	12.0 ± 5.0	87.1 ± 14.3					
1984-85	27.4 ± 7.6	15.7 ± 5.5	1.4 ± 0.5	40.1 ± 27.1	3.0 ± 1.4	0.4 ± 0.2	15.1 ± 6.0	103.2 ± 29.3					

Table D.4. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower		Laguna Madre	Coastwide ^a
			Galveston	Matagorda			Antonio	Laguna Madre	Laguna Madre			
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	23.7 ± 4.3	3.8 ± 0.8	19.7 ± 10.2	20.0 ± 7.5	8.4 ± 1.2	10.4 ± 2.0	156.4 ± 22.6				
1984-85	75.1 ± 18.2	14.6 ± 2.8	2.8 ± 0.8	10.4 ± 2.9	21.1 ± 5.0	4.0 ± 1.1	9.2 ± 2.7	137.3 ± 19.5				
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	162.4 ± 39.1	82.3 ± 18.1	128.1 ± 26.8	141.6 ± 31.4	190.5 ± 27.0	168.2 ± 18.0	1134.9 ± 84.7				
1984-85	94.9 ± 15.7	37.1 ± 14.6	4.8 ± 0.9	38.8 ± 22.0	37.0 ± 12.4	9.6 ± 3.4	97.1 ± 15.9	319.2 ± 36.9				
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	18.3	9.8	41.0	25.0	7.2	8.1	177.4				
1984-85	46.2	13.8	3.4	8.7	8.4	2.1	21.0	103.6				

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 ^b										
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	344.8 ± 51.0	139.5 ± 25.4	320.4 ± 53.0	359.7 ± 59.5	263.5 ± 30.2	248.0 ± 24.3	2484.6 ± 155.2		
1984-85	808.2 ± 119.9	129.6 ± 22.0	26.7 ± 4.0	151.3 ± 44.1	121.5 ± 20.6	33.9 ± 6.7	198.7 ± 27.4	1469.9 ± 134.3		

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

Table D.5. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekends by species and bay system (1974-1984).

Species Year	Bay system										Coastwide ^a		
	San					Upper						Lower	
	Galveston	Matagorda	Antonio	Aransas	Christi	Laguna Madre	Laguna Madre	Corpus Christi	Laguna Madre	Laguna Madre			
Atlantic croaker													
1974-75	199.9 \pm 87.0	13.9 \pm 8.5	2.6 \pm 1.1	2.9 \pm 2.0	3.7 \pm 2.3	27.7 \pm 11.3	8.0 \pm 5.3	258.7 \pm 62.0					
1976	265.2 \pm 97.2	10.5 \pm 7.2	0.3 \pm 0.3	3.2 \pm 2.5	6.9 \pm 2.4	16.1 \pm 4.7	5.1 \pm 1.3	307.3 \pm 97.7					
1977	434.3 \pm 159.1	11.4 \pm 5.9	0.5 \pm 0.3	2.1 \pm 0.8	7.5 \pm 3.8	16.1 \pm 9.5	5.2 \pm 0.9	447.1 \pm 159.5					
1978	238.3 \pm 63.9	12.5 \pm 6.4	1.4 \pm 1.0	0.6 \pm 0.3	8.4 \pm 2.3	33.9 \pm 20.3	4.3 \pm 1.7	299.4 \pm 67.4					
1979	231.9 \pm 88.9	4.2 \pm 2.2	1.3 \pm 0.9	1.3 \pm 0.8	3.9 \pm 1.6	6.4 \pm 3.3	2.0 \pm 0.6	251.0 \pm 89.1					
1980	108.5 \pm 33.6	13.4 \pm 6.1	0.4 \pm 0.2	0.7 \pm 0.4	13.0 \pm 7.0	15.1 \pm 5.1	1.4 \pm 0.7	152.6 \pm 35.2					
1981	95.6 \pm 42.0	4.0 \pm 1.9	0.3 \pm 0.3	0.1 \pm 0.1	26.3 \pm 21.4	18.6 \pm 8.0	1.8 \pm 0.6	146.7 \pm 47.9					
1982	81.6 \pm 21.0	3.5 \pm 1.7	0.9 \pm 0.3	3.5 \pm 3.1	4.3 \pm 1.1	21.3 \pm 13.4	3.5 \pm 0.2	118.5 \pm 25.2					
1983	74.1 \pm 24.1	6.3 \pm 3.1	0.8 \pm 0.5	11.5 \pm 5.0	17.5 \pm 11.1	21.1 \pm 5.1	2.4 \pm 0.6	133.7 \pm 27.7					
1984	117.0 \pm 34.0	2.2 \pm 0.9	0.3 \pm 0.2	1.8 \pm 1.0	0.8 \pm 0.4	1.3 \pm 0.5	1.4 \pm 0.7	124.7 \pm 34.1					
Black drum													
1974-75	12.1 \pm 7.0	5.4 \pm 3.8	1.3 \pm 0.5	0.4 \pm 0.3	4.6 \pm 3.5	1.0 \pm 0.4	3.4 \pm 3.4	28.2 \pm 5.9					
1976	27.7 \pm 9.7	3.0 \pm 1.4	14.3 \pm 10.3	2.3 \pm 0.9	1.7 \pm 0.6	6.2 \pm 4.2	1.2 \pm 0.4	56.4 \pm 14.9					
1977	41.8 \pm 10.9	9.5 \pm 4.0	1.0 \pm 0.4	1.2 \pm 0.5	1.2 \pm 0.5	1.1 \pm 0.6	1.4 \pm 0.5	57.3 \pm 11.7					
1978	20.8 \pm 6.7	8.4 \pm 3.4	1.4 \pm 1.3	0.4 \pm 0.3	0.8 \pm 0.3	0.8 \pm 0.3	1.0 \pm 0.4	33.5 \pm 7.7					
1979	32.9 \pm 9.9	2.9 \pm 1.4	0.6 \pm 0.5	9.6 \pm 5.8	1.0 \pm 0.5	0.5 \pm 0.5	0.1 \pm 0.1	47.8 \pm 11.6					
1980	14.3 \pm 5.2	23.2 \pm 12.9	0.7 \pm 0.4	0.1 \pm 0.1	3.1 \pm 1.8	2.9 \pm 1.1	3.7 \pm 2.3	48.0 \pm 14.2					
1981	4.3 \pm 1.2	11.3 \pm 3.6	0.6 \pm 0.3	1.1 \pm 0.3	1.4 \pm 0.6	0.7 \pm 0.2	0.9 \pm 0.7	20.3 \pm 3.9					
1982	33.1 \pm 9.8	6.9 \pm 2.4	0.4 \pm 0.1	0.8 \pm 0.4	4.9 \pm 1.9	5.0 \pm 1.9	0.7 \pm 0.2	51.7 \pm 10.4					
1983	5.3 \pm 2.0	8.6 \pm 2.7	2.1 \pm 1.1	6.5 \pm 2.3	2.9 \pm 1.1	1.1 \pm 0.3	0.7 \pm 0.2	27.2 \pm 4.4					
1984	11.5 \pm 3.2	1.6 \pm 1.0	0.2 \pm 0.1	0.1 \pm 0.1	1.2 \pm 0.5	0.1 \pm <.1	0.3 \pm 0.1	14.9 \pm 3.4					
Gafftopsail catfish													
1974-75	14.7 \pm 14.0	4.2 \pm 3.1	1.9 \pm 1.1	0.9 \pm 0.6	0.0	0.0	0.0	21.7 \pm 10.0					
1976	6.6 \pm 5.6	11.9 \pm 10.7	1.0 \pm 1.5	1.6 \pm 1.5	1.2 \pm 0.6	0.0	0.1 \pm <.1	22.2 \pm 12.2					
1977	2.3 \pm 1.3	13.6 \pm 8.8	2.6 \pm 1.2	0.2 \pm 0.1	0.6 \pm 0.4	0.0	0.0	19.3 \pm 9.0					
1978	3.5 \pm 1.6	13.6 \pm 6.9	1.5 \pm 0.5	1.0 \pm 0.5	2.2 \pm 1.1	<.1 \pm <.1	0.2 \pm 0.2	22.1 \pm 7.2					
1979	3.1 \pm 1.9	1.4 \pm 0.7	0.3 \pm 0.1	0.1 \pm 0.1	0.9 \pm 0.6	0.1 \pm 0.1	0.0	5.9 \pm 2.2					
1980	4.6 \pm 4.0	0.4 \pm 0.3	0.1 \pm <.1	0.4 \pm 0.2	0.7 \pm 0.3	<.1 \pm <.1	0.1 \pm 0.1	6.2 \pm 4.0					
1981	2.2 \pm 1.9	2.6 \pm 1.8	0.5 \pm 0.4	0.6 \pm 0.2	0.9 \pm 0.4	0.0	<.1 \pm <.1	6.8 \pm 2.6					
1982	0.9 \pm 0.4	2.2 \pm 1.0	0.7 \pm 0.3	0.8 \pm 0.5	1.0 \pm 0.3	<.1 \pm <.1	0.1 \pm <.1	5.8 \pm 1.3					
1983	0.9 \pm 0.7	3.8 \pm 2.1	0.5 \pm 0.3	1.0 \pm 0.4	2.6 \pm 1.3	0.1 \pm 0.1	0.0	9.0 \pm 2.6					
1984	0.8 \pm 0.3	1.5 \pm 0.5	1.0 \pm 0.6	0.8 \pm 0.5	0.2 \pm 0.2	<.1 \pm <.1	0.0	4.3 \pm 1.0					

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	San Antonio					Corpus Christi						
	Galveston	Matagorda	Aransas	Upper Laguna Madre	Lower Laguna Madre	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide ^a		
Red drum												
1974-75	21.6 ± 12.5	14.2 ± 6.7	20.2 ± 6.4	10.4 ± 3.8	7.2 ± 5.8	9.6 ± 3.5	13.0 ± 6.8	96.2 ± 11.1				
1976	9.5 ± 4.8	6.3 ± 2.6	17.7 ± 4.8	9.5 ± 3.6	4.2 ± 1.5	2.5 ± 0.9	6.4 ± 2.3	56.1 ± 8.6				
1977	29.3 ± 7.5	4.5 ± 1.5	4.0 ± 1.5	9.3 ± 3.5	1.9 ± 0.8	1.4 ± 0.5	5.6 ± 1.8	56.1 ± 8.8				
1978	12.2 ± 2.9	10.5 ± 4.5	2.2 ± 1.0	1.1 ± 0.5	2.2 ± 0.8	1.4 ± 0.7	2.9 ± 1.1	32.6 ± 5.7				
1979	8.9 ± 3.4	12.4 ± 6.2	5.4 ± 2.3	2.7 ± 1.8	2.0 ± 0.7	0.6 ± 0.2	1.4 ± 0.3	33.4 ± 7.7				
1980	6.1 ± 2.5	18.7 ± 7.1	3.5 ± 0.6	3.9 ± 2.5	3.4 ± 1.2	14.5 ± 3.9	4.6 ± 1.1	54.7 ± 9.1				
1981	11.6 ± 7.2	5.9 ± 1.6	2.8 ± 0.8	2.6 ± 0.8	2.8 ± 0.8	5.1 ± 1.6	1.7 ± 0.3	32.6 ± 7.7				
1982	15.2 ± 5.3	6.2 ± 3.0	6.8 ± 1.1	5.1 ± 2.0	5.4 ± 2.1	5.9 ± 1.5	6.8 ± 0.9	51.4 ± 7.0				
1983	6.8 ± 2.7	19.9 ± 4.9	12.4 ± 2.6	19.3 ± 4.9	8.8 ± 3.0	7.5 ± 1.1	11.1 ± 1.6	85.8 ± 8.6				
1984	6.2 ± 1.3	1.1 ± 0.4	0.9 ± 0.3	7.3 ± 2.9	4.1 ± 1.4	0.7 ± 0.2	8.9 ± 2.2	29.1 ± 4.2				
Sand seatrout												
1974-75	393.7 ± 371.6	29.0 ± 25.8	1.0 ± 0.6	5.9 ± 5.6	41.5 ± 17.8	3.4 ± 1.5	17.1 ± 11.0	491.6 ± 262.5				
1976	249.1 ± 148.2	12.5 ± 8.4	0.1 ± 0.1	24.7 ± 17.5	19.8 ± 6.3	9.6 ± 7.4	6.3 ± 2.9	322.2 ± 149.8				
1977	129.7 ± 38.4	11.6 ± 3.5	0.9 ± 0.6	5.5 ± 3.0	19.4 ± 5.6	1.9 ± 1.1	21.3 ± 6.5	190.2 ± 39.6				
1978	229.8 ± 131.3	10.8 ± 7.1	<1 ± <1	1.3 ± 0.8	13.9 ± 4.6	0.9 ± 0.4	2.3 ± 0.9	259.0 ± 131.5				
1979	119.2 ± 32.9	8.6 ± 4.1	2.0 ± 0.8	0.4 ± 0.2	13.4 ± 5.9	1.4 ± 0.6	0.9 ± 0.3	145.9 ± 33.7				
1980	74.1 ± 28.4	2.5 ± 1.8	0.3 ± 0.2	8.4 ± 3.4	22.4 ± 12.5	2.4 ± 1.0	4.4 ± 2.1	114.6 ± 31.3				
1981	30.5 ± 10.9	19.2 ± 16.3	1.6 ± 1.2	1.2 ± 0.5	25.6 ± 9.0	4.7 ± 2.5	10.6 ± 4.6	93.5 ± 22.3				
1982	158.1 ± 39.4	9.8 ± 4.5	3.6 ± 1.7	5.8 ± 2.4	37.1 ± 15.5	3.8 ± 1.8	9.6 ± 3.1	227.9 ± 42.8				
1983	51.9 ± 17.9	23.1 ± 11.6	2.3 ± 0.8	7.8 ± 3.0	45.8 ± 18.1	8.7 ± 3.3	6.3 ± 2.6	145.9 ± 28.5				
1984	156.6 ± 49.4	11.4 ± 7.7	0.9 ± 0.3	15.8 ± 8.3	12.5 ± 5.7	5.2 ± 2.5	5.5 ± 1.9	207.9 ± 51.0				
Sheepshead												
1974-75	0.2 ± 0.2	8.2 ± 7.5	1.2 ± 0.7	1.6 ± 0.9	2.0 ± 1.1	1.1 ± 0.7	0.6 ± 0.4	14.9 ± 2.4				
1976	8.8 ± 4.2	8.2 ± 5.9	1.0 ± 0.4	4.2 ± 2.8	1.9 ± 1.6	1.2 ± 0.5	2.8 ± 1.2	28.1 ± 8.1				
1977	73.2 ± 44.9	8.4 ± 4.6	1.6 ± 0.6	2.4 ± 0.9	1.4 ± 0.8	0.8 ± 0.5	1.1 ± 0.6	88.8 ± 45.2				
1978	13.6 ± 2.9	9.7 ± 5.0	0.3 ± 0.1	0.7 ± 0.3	2.3 ± 1.3	0.1 ± 0.1	1.1 ± 0.9	27.9 ± 6.0				
1979	14.1 ± 6.8	3.0 ± 1.1	1.2 ± 0.6	2.4 ± 1.3	1.7 ± 0.9	0.3 ± 0.1	1.4 ± 0.4	24.2 ± 7.1				
1980	7.9 ± 3.6	5.2 ± 2.9	0.5 ± 0.2	2.1 ± 1.6	0.5 ± 0.3	3.7 ± 2.8	2.4 ± 1.7	22.3 ± 5.9				
1981	8.8 ± 2.7	6.4 ± 3.5	1.5 ± 0.7	3.7 ± 2.7	1.3 ± 0.4	0.4 ± 0.2	0.4 ± 0.1	22.5 ± 5.2				
1982	18.3 ± 5.5	2.6 ± 1.0	0.5 ± 0.2	1.1 ± 0.5	2.2 ± 0.9	1.9 ± 0.5	1.1 ± 0.6	27.9 ± 5.8				
1983	11.4 ± 4.1	3.1 ± 0.9	1.7 ± 0.6	1.7 ± 0.6	1.1 ± 0.4	1.2 ± 0.4	1.0 ± 0.4	21.1 ± 4.3				
1984	13.5 ± 3.8	5.3 ± 2.8	0.6 ± 0.3	0.4 ± 0.2	0.1 ± 0.1	<1 ± <1	0.9 ± 0.4	20.9 ± 4.8				

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide ^a				
	San Antonio					Corpus Christi						Upper Laguna Madre		Lower Laguna Madre	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre
Southern flounder															
1974-75	18.8 ± 18.4	14.4 ± 8.8	6.1 ± 2.0	16.5 ± 10.7	0.6 ± 0.3	22.6 ± 21.1	2.6 ± 1.1	81.6 ± 21.3							
1976	15.0 ± 4.9	3.0 ± 1.3	4.3 ± 1.8	3.5 ± 1.6	2.9 ± 1.6	1.2 ± 0.4	1.9 ± 0.5	31.8 ± 5.9							
1977	17.7 ± 5.6	6.9 ± 2.6	3.9 ± 1.2	5.6 ± 2.3	1.7 ± 0.8	1.6 ± 0.7	3.8 ± 1.5	41.1 ± 6.9							
1978	16.8 ± 3.5	8.9 ± 4.3	2.1 ± 0.7	2.0 ± 1.1	7.6 ± 5.3	0.5 ± 0.2	4.2 ± 1.2	42.1 ± 7.9							
1979	15.0 ± 3.9	9.1 ± 4.7	1.3 ± 0.3	1.4 ± 0.8	4.7 ± 3.7	2.3 ± 1.3	4.5 ± 1.3	38.4 ± 7.4							
1980	9.4 ± 4.4	5.2 ± 2.4	5.2 ± 2.8	3.5 ± 2.1	1.3 ± 0.8	5.7 ± 2.0	3.8 ± 1.2	34.1 ± 6.6							
1981	9.7 ± 3.6	1.9 ± 0.7	1.3 ± 0.4	2.9 ± 1.7	2.0 ± 0.5	3.8 ± 1.2	3.0 ± 0.5	24.5 ± 4.3							
1982	49.7 ± 19.9	2.6 ± 0.7	3.6 ± 1.4	7.7 ± 6.5	2.2 ± 0.7	10.1 ± 3.0	9.7 ± 1.9	85.6 ± 21.3							
1983	34.3 ± 14.6	14.8 ± 3.6	2.3 ± 0.7	13.5 ± 10.0	6.7 ± 4.2	4.2 ± 0.8	4.9 ± 1.7	80.6 ± 18.6							
1984	26.0 ± 6.0	3.3 ± 1.0	1.9 ± 0.8	3.5 ± 1.7	3.3 ± 1.3	1.2 ± 0.6	0.9 ± 0.3	40.1 ± 6.5							
Spotted seatrout															
1974-75	330.3 ± 192.2	152.1 ± 84.0	123.8 ± 58.0	146.2 ± 86.1	27.5 ± 15.3	36.9 ± 9.9	77.6 ± 29.1	894.4 ± 156.8							
1976	38.4 ± 19.7	11.3 ± 3.6	52.4 ± 15.5	83.6 ± 24.1	33.7 ± 14.0	189.5 ± 154.8	78.0 ± 16.0	486.8 ± 161.4							
1977	96.4 ± 30.9	62.7 ± 19.1	28.0 ± 8.8	55.9 ± 22.4	38.1 ± 13.3	31.5 ± 7.6	85.9 ± 19.1	398.5 ± 50.0							
1978	107.6 ± 33.0	40.7 ± 14.0	12.6 ± 2.5	41.1 ± 16.7	29.0 ± 9.6	18.5 ± 3.9	67.7 ± 21.5	317.1 ± 46.3							
1979	70.4 ± 17.6	17.7 ± 6.5	31.1 ± 10.1	59.0 ± 23.8	20.9 ± 5.8	39.8 ± 14.7	46.9 ± 7.4	285.7 ± 36.3							
1980	33.8 ± 11.2	30.1 ± 8.9	28.8 ± 13.4	28.1 ± 8.4	18.5 ± 6.0	119.1 ± 19.1	56.7 ± 11.7	315.1 ± 31.6							
1981	67.6 ± 21.3	62.7 ± 17.0	23.2 ± 4.6	39.0 ± 10.0	44.2 ± 6.9	80.6 ± 22.9	65.0 ± 11.0	382.4 ± 39.5							
1982	115.8 ± 51.8	23.7 ± 6.6	29.3 ± 7.6	27.8 ± 8.2	36.6 ± 10.7	95.1 ± 15.2	88.6 ± 10.9	417.0 ± 57.6							
1983	85.6 ± 26.6	53.2 ± 12.8	32.9 ± 12.0	69.3 ± 21.9	66.0 ± 24.6	109.8 ± 23.8	60.7 ± 8.3	477.5 ± 52.3							
1984	29.9 ± 8.3	5.8 ± 1.7	2.4 ± 0.6	2.0 ± 0.8	3.4 ± 1.7	1.0 ± 0.3	20.3 ± 5.8	64.9 ± 10.4							
Other Species															
1974-75	11.1 ± 5.2	0.5 ± 0.5	3.6 ± 1.7	2.4 ± 0.9	4.5 ± 1.4	1.4 ± 0.7	1.8 ± 0.8	25.3 ± 4.0							
1976	13.4 ± 3.9	2.6 ± 1.8	2.7 ± 0.9	2.9 ± 1.3	3.0 ± 1.4	2.2 ± 1.1	2.2 ± 0.9	28.8 ± 5.0							
1977	9.1 ± 3.0	9.4 ± 4.9	1.8 ± 0.5	1.5 ± 0.5	1.2 ± 0.4	3.0 ± 2.3	1.5 ± 0.5	27.5 ± 6.3							
1978	24.0 ± 6.5	7.8 ± 2.4	1.2 ± 0.5	0.9 ± 0.5	1.0 ± 0.5	0.2 ± 0.1	1.0 ± 0.4	36.2 ± 7.0							
1979	45.7 ± 14.3	4.0 ± 1.6	0.8 ± 0.3	1.0 ± 0.6	3.6 ± 1.6	0.7 ± 0.5	0.8 ± 0.3	56.5 ± 14.5							
1980	39.6 ± 10.6	4.3 ± 2.1	1.1 ± 0.6	1.0 ± 0.7	7.3 ± 3.7	11.0 ± 9.3	0.2 ± 0.1	64.5 ± 14.8							
1981	20.1 ± 6.9	4.0 ± 1.9	1.1 ± 0.5	1.1 ± 0.4	5.4 ± 0.7	3.3 ± 1.2	2.3 ± 0.7	37.3 ± 7.4							
1982	36.4 ± 10.3	5.0 ± 1.7	2.6 ± 1.0	3.2 ± 0.8	8.6 ± 1.4	8.2 ± 5.9	3.9 ± 1.0	67.8 ± 12.2							
1983	9.0	10.4	6.3	13.7	14.9	3.7	3.5	61.5							
1984	30.7	2.9	2.2	3.9	0.7	1.1	3.5	45.1							

Table D.5. (Cont'd.)

Species Year	Bay system										Coastwide ^a					
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi			Upper		Lower		
												Laguna	Madre	Laguna	Madre	
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 ± 80.5								
1982	509.2 ± 88.7	62.4 ± 10.8	48.4 ± 8.1	55.9 ± 14.3	102.3 ± 20.4	151.4 ± 27.7	124.1 ± 14.4	1053.6 ± 98.2								
1983	279.2 ± 64.0	143.1 ± 25.8	61.3 ± 18.7	144.2 ± 38.1	166.3 ± 44.6	157.5 ± 26.4	90.5 ± 11.3	1042.2 ± 96.8								
1984	392.1 ± 84.5	35.2 ± 8.9	10.3 ± 1.8	35.5 ± 12.0	26.3 ± 6.8	10.8 ± 3.0	41.7 ± 8.9	552.0 ± 86.6								

^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 (1974-1984).

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower			
			Antonio	Padre			Laguna	Madre	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 1.1	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 5.5	6.0 \pm 2.6	0.8 \pm 0.2	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	5.1 \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	130.5 \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				
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 1.0	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	8.6 \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	28.4 \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				
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 0.5	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				

Table D.6. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper Laguna Madre		Lower Laguna Madre			
			Antonio	San Antonio			Madre	Madre				
Red drum												
1974-75	66.9 ± 65.9	7.5 ± 7.5	5.7 ± 2.0	3.1 ± 3.1	3.7 ± 3.7	2.0 ± 1.7	27.6 ± 16.1	116.5 ± 52.5				
1976	11.5	5.6	10.6	5.7	6.3	3.0	9.7	52.4				
1977	35.5	2.7	2.4	5.6	2.3	1.7	6.8	57.0				
1978	14.8	6.3	1.3	0.7	2.7	1.7	3.5	31.0				
1979	28.3 ± 19.0	0.0	5.1 ± 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	16.5 ± 5.3	11.1 ± 2.1	10.9 ± 2.8	8.0 ± 2.5	5.2 ± 1.0	11.9 ± 2.5	76.7 ± 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				
Sand seatrout												
1974-75	55.7 ± 29.0	37.3 ± 37.3	2.7 ± 2.4	0.8 ± 0.8	34.0 ± 19.1	45.9 ± 44.2	0.0	176.4 ± 42.8				
1976	338.0	18.2	0.1	33.5	40.8	13.0	13.1	456.7				
1977	176.0	15.7	1.2	7.5	26.3	2.6	28.9	258.1				
1978	311.8	14.7	<.1	1.8	18.9	1.2	3.1	351.4				
1979	168.9 ± 166.9	0.0	1.9 ± 1.9	0.0	65.4 ± 52.7	19.9 ± 15.4	9.9 ± 9.2	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	10.8 ± 4.4	1.3 ± 0.5	19.8 ± 8.8	49.4 ± 16.3	3.4 ± 0.9	2.6 ± 0.8	167.5 ± 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				
Sheepshead												
1974-75	9.2 ± 6.1	4.5 ± 4.5	0.7 ± 0.3	0.0	0.7 ± 0.7	3.3 ± 3.3	0.0	18.4 ± 5.5				
1976	12.0	12.1	1.4	5.7	2.7	1.6	4.8	40.1				
1977	99.6	11.4	2.2	3.3	1.9	1.1	1.5	120.8				
1978	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				

Table D.6. (Cont'd.)

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower		
			Galveston	Matagorda			Antonio	Laguna Madre	Laguna Madre	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	6.2 ± 1.7	1.1 ± 0.4	4.9 ± 1.7	13.1 ± 6.3	3.4 ± 0.8	5.3 ± 1.2	63.4 ± 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			
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	66.9	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	25.3 ± 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	68.0 ± 19.3	42.7 ± 13.0	48.9 ± 13.6	68.6 ± 18.8	76.1 ± 12.5	83.1 ± 14.1	492.6 ± 47.5			
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			
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	58.8			
1984	12.1	3.0	0.9	3.8	4.4	0.1	2.2	26.5			

Table D.6. (Cont'd.)

Species Year	Bay system										Coastwide ^a					
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi			Upper		Lower		
												Laguna	Madre	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	122.0 ± 24.4	61.9 ± 14.7	121.9 ± 23.2	177.4 ± 38.3	96.9 ± 14.0	110.0 ± 17.1	1050.4 ± 96.1								
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								

^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 (1974-1985).

Species Year	Bay system										Coastwide ^a
	Upper					Lower					
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide	
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	2.6 \pm 1.4	0.5 \pm 0.4	<.1 \pm <.1	5.0 \pm 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 \pm 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 \pm 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	13.1 \pm 13.1	0.0	0.0	0.0	14.4 \pm 13.1			
1984-85	5.8 \pm 4.6	1.5 \pm 1.1	0.0	0.0	1.0 \pm 0.8	0.6 \pm 0.5	1.7 \pm 1.3	10.6 \pm 5.0			
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 \pm 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	0.5 \pm 0.5	0.8 \pm 0.8	0.2 \pm 0.2	2.5 \pm 1.6	15.0 \pm 5.3			
1984-85	0.6 \pm 0.6	2.5 \pm 1.4	1.0 \pm 0.6	0.0	1.9 \pm 1.4	0.1 \pm 0.1	0.7 \pm 0.4	6.8 \pm 2.2			
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 \pm 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	0.9 \pm 0.6	0.2 \pm 0.2	0.0	0.1 \pm 0.1	0.0	0.0	1.2 \pm 0.7			

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 ± 10.4	15.3 ± 8.1	6.6 ± 2.8	2.0 ± 1.2	1.9 ± 1.3	7.5 ± 2.5	5.7 ± 2.8	52.2 ± 7.8					
1976-77	0.8 ± 0.6	1.9 ± 1.0	0.9 ± 0.4	1.5 ± 0.6	0.2 ± 0.1	1.6 ± 0.9	2.0 ± 0.9	8.9 ± 1.9					
1977-78	2.0 ± 1.0	2.7 ± 1.3	6.7 ± 1.9	5.0 ± 2.3	0.3 ± 0.1	0.7 ± 0.3	2.8 ± 1.1	20.0 ± 3.6					
1978-79	0.9 ± 0.6	3.9 ± 2.7	13.6 ± 6.2	1.6 ± 0.9	0.3 ± 0.2	0.2 ± 0.1	0.9 ± 0.3	21.4 ± 6.9					
1979-80	0.8 ± 0.7	6.9 ± 4.5	5.8 ± 4.4	2.7 ± 1.9	4.8 ± 2.9	6.5 ± 2.7	5.9 ± 2.7	33.3 ± 8.1					
1980-81	5.3 ± 3.4	1.6 ± 0.9	4.7 ± 2.6	0.7 ± 0.4	1.4 ± 0.8	3.2 ± 1.8	1.4 ± 0.9	18.3 ± 4.9					
1981-82	0.8 ± 0.5	6.0 ± 5.4	6.4 ± 3.8	4.9 ± 2.9	0.6 ± 0.3	3.3 ± 1.0	2.0 ± 1.1	23.9 ± 7.9					
1982-83	0.8 ± 0.6	1.5 ± 1.0	1.2 ± 0.5	5.3 ± 4.9	0.2 ± 0.2	1.5 ± 0.7	2.2 ± 0.6	12.8 ± 5.1					
1983-84	2.1 ± 0.9	5.0 ± 3.5	5.7 ± 4.1	1.2 ± 1.2	0.1 ± 0.1	0.1 ± 0.1	3.1 ± 1.3	17.4 ± 5.8					
1984-85	0.7 ± 0.6	3.9 ± 2.3	3.8 ± 2.8	1.9 ± 1.1	2.9 ± 1.3	0.9 ± 0.5	2.7 ± 0.8	16.9 ± 4.2					
Sand seatrout													
1974-76	57.5 ± 40.0	0.3 ± 0.3	0.6 ± 0.6	0.7 ± 0.6	7.9 ± 3.8	2.3 ± 1.4	2.4 ± 1.8	71.7 ± 25.7					
1976-77	1.0 ± 0.7	<.1 ± <.1	0.0	0.0	17.3 ± 11.5	0.0	0.4 ± 0.4	18.8 ± 11.6					
1977-78	13.4 ± 12.1	2.4 ± 2.4	0.4 ± 0.3	0.5 ± 0.4	1.6 ± 1.3	0.5 ± 0.5	1.5 ± 1.3	20.3 ± 12.5					
1978-79	57.6 ± 57.0	0.0	0.0	3.0 ± 2.1	1.0 ± 0.7	0.9 ± 0.9	0.5 ± 0.4	63.1 ± 57.1					
1979-80	15.5 ± 9.0	0.1 ± 0.1	0.0	<.1 ± <.1	2.8 ± 1.8	1.2 ± 0.8	1.3 ± 0.6	20.9 ± 9.2					
1980-81	0.3 ± 0.3	0.0	0.0	0.0	10.5 ± 7.2	0.1 ± 0.1	0.6 ± 0.6	11.4 ± 7.2					
1981-82	0.0	1.3 ± 1.3	<.1 ± <.1	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	<.1 ± <.1	1.1 ± 1.1	5.9 ± 2.9	0.2 ± 0.1	0.1 ± 0.1	7.3 ± 3.1					
1983-84	32.2 ± 32.2	<.1 ± <.1	<.1 ± <.1	1.2 ± 1.2	0.0	0.0	<.1 ± <.1	33.6 ± 32.2					
1984-85	0.4 ± 0.4	1.1 ± 1.1	0.6 ± 0.6	0.0	0.0	1.0 ± 1.0	12.8 ± 9.3	15.9 ± 9.4					
Sheepshead													
1974-76	4.9 ± 2.7	2.6 ± 1.6	1.1 ± 0.5	7.4 ± 7.1	2.6 ± 1.8	1.9 ± 0.8	1.4 ± 0.6	21.9 ± 5.0					
1976-77	1.1 ± 0.7	0.7 ± 0.5	<.1 ± <.1	1.1 ± 0.5	0.9 ± 0.5	0.5 ± 0.4	1.0 ± 0.6	5.3 ± 1.5					
1977-78	5.0 ± 2.3	2.1 ± 1.5	1.6 ± 1.2	3.0 ± 1.4	0.3 ± 0.3	1.3 ± 0.7	4.3 ± 2.4	17.7 ± 4.2					
1978-79	3.3 ± 2.3	3.4 ± 2.0	0.6 ± 0.3	1.6 ± 1.0	1.1 ± 0.6	1.3 ± 0.4	5.3 ± 3.9	16.7 ± 5.0					
1979-80	0.6 ± 0.6	2.8 ± 1.4	0.1 ± 0.1	0.0	3.5 ± 2.0	0.4 ± 0.1	12.5 ± 9.1	19.9 ± 9.4					
1980-81	2.5 ± 1.7	8.2 ± 7.6	0.5 ± 0.3	0.1 ± 0.1	17.2 ± 15.3	1.6 ± 0.6	2.6 ± 1.6	32.5 ± 17.3					
1981-82	0.8 ± 0.4	11.2 ± 8.7	1.9 ± 1.7	10.3 ± 8.9	0.7 ± 0.6	2.0 ± 0.9	0.9 ± 0.3	27.8 ± 12.6					
1982-83	3.8 ± 3.6	0.3 ± 0.3	1.0 ± 0.5	0.7 ± 0.5	23.5 ± 21.1	1.7 ± 0.8	1.8 ± 0.6	32.9 ± 21.5					
1983-84	2.0 ± 1.2	8.0 ± 7.1	0.4 ± 0.3	0.4 ± 0.4	0.1 ± 0.1	0.0	1.0 ± 0.9	11.7 ± 7.3					
1984-85	0.2 ± 0.2	2.1 ± 1.1	0.6 ± 0.4	1.7 ± 1.0	0.4 ± 0.4	0.1 ± 0.1	10.3 ± 5.7	15.4 ± 5.9					

Table D.7. (Cont'd.)

Species Year	Bay system										Coastwide ^a					
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi			Upper Laguna Madre		Lower Laguna Madre		
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	1.4 ±	0.7	10.2 ±	2.3
1978-79	2.5 ±	1.6	3.9 ±	3.6	0.1 ±	<.1	1.9 ±	1.6	0.8 ±	0.6	1.0 ±	0.4	0.8 ±	0.5	11.0 ±	4.3
1979-80	1.7 ±	0.9	2.0 ±	1.2	0.9 ±	0.8	0.4 ±	0.3	2.0 ±	1.0	1.2 ±	0.5	2.4 ±	0.6	10.7 ±	2.1
1980-81	4.2 ±	4.0	1.0 ±	0.9	0.1 ±	<.1	3.3 ±	3.0	0.4 ±	0.3	1.9 ±	1.1	1.1 ±	0.6	11.9 ±	5.2
1981-82	6.8 ±	5.5	0.8 ±	0.4	0.1 ±	<.1	0.8 ±	0.5	0.8 ±	0.2	2.7 ±	1.3	1.4 ±	0.7	13.3 ±	5.8
1982-83	9.5 ±	9.5	0.7 ±	0.4	<.1 ±	<.1	0.8 ±	0.5	1.0 ±	0.5	1.5 ±	0.5	2.7 ±	1.0	16.4 ±	9.6
1983-84	0.7 ±	0.4	0.5 ±	0.4	0.3 ±	0.2	0.1 ±	0.1	<.1 ±	<.1	0.0		0.1 ±	0.1	1.7 ±	0.6
1984-85	11.2 ±	11.0	2.4 ±	1.1	0.1 ±	0.1	1.7 ±	1.4	2.3 ±	1.7	1.8 ±	0.8	2.5 ±	1.1	22.0 ±	11.4
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 ±	28.7
1980-81	5.6 ±	2.9	3.5 ±	2.6	7.8 ±	3.3	8.7 ±	5.4	9.8 ±	4.2	61.5 ±	32.6	11.2 ±	8.1	108.0 ±	34.7
1981-82	10.4 ±	6.0	15.3 ±	12.0	7.1 ±	5.6	13.9 ±	11.8	11.6 ±	6.0	37.8 ±	16.2	18.6 ±	6.9	114.7 ±	26.4
1982-83	1.1 ±	0.9	1.9 ±	1.6	1.5 ±	0.9	4.3 ±	2.6	9.9 ±	5.3	21.7 ±	8.7	22.3 ±	5.7	62.9 ±	12.2
1983-84	13.4 ±	11.3	34.5 ±	31.2	5.9 ±	4.0	0.5 ±	0.5	0.1 ±	0.1	3.2 ±	3.2	5.1 ±	2.8	62.6 ±	33.7
1984-85	5.1 ±	4.7	18.6 ±	14.0	0.8 ±	0.4	2.7 ±	1.5	20.2 ±	10.9	4.6 ±	2.5	23.7 ±	7.8	75.7 ±	20.2
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 ±	0.6	7.2 ±	7.2	0.2		1.7		0.2		26.0	
1984-85	0.6 ±	0.6	7.9		0.3		0.6 ±	0.4	1.1		0.8		14.9		26.2	

Table D.7. (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	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	24.2 ± 21.6	1.2 ± 0.8	5.2 ± 3.5	12.0 ± 5.4	184.1 ± 55.5							
1984-85	24.6 ± 13.9	40.8 ± 16.9	7.5 ± 2.9	8.5 ± 3.6	29.9 ± 11.9	10.0 ± 4.2	69.4 ± 20.4	190.7 ± 32.8							

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

Table D.8. 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 weekdays by species and bay system (1974-1985).

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower		
			Galveston	Matagorda			Laguna Madre	Laguna Madre			
Atlantic croaker											
1974-76	34.6 \pm 33.5	0.0	0.1 \pm 0.1	0.0	0.0	1.5 \pm 1.5	84.2 \pm 84.2	0.9 \pm 0.9	121.3 \pm 57.1		
1976-77	2.8	2.8	0.3	0.0	0.0	0.9	0.8	1.0	8.7		
1977-78	3.3	0.7	<.1	0.0	0.0	0.6	1.3	0.4	6.3		
1978-79	2.6	0.0	0.0	0.0	0.0	0.0	<.1	0.2	2.8		
1979-80	2.2 \pm 2.2	1.5 \pm 1.5	0.1 \pm 0.1	0.2 \pm 0.2	0.8 \pm 0.7	0.8 \pm 0.7	0.0	0.0	4.8 \pm 2.8		
1980-81	0.6 \pm 0.3	0.5 \pm 0.5	0.0	0.0	0.1 \pm 0.1	0.1 \pm 0.1	0.4 \pm 0.4	2.7 \pm 2.7	4.4 \pm 2.8		
1981-82	1.4 \pm 0.9	0.0	0.0	0.0	0.6 \pm 0.3	0.6 \pm 0.3	0.8 \pm 0.5	0.1 \pm 0.1	3.0 \pm 1.1		
1982-83	1.7 \pm 1.2	0.5 \pm 0.4	0.0	2.3 \pm 2.2	4.4 \pm 2.6	4.4 \pm 2.6	1.0 \pm 0.6	1.2 \pm 0.6	11.2 \pm 3.8		
1983-84	1.6 \pm 1.6	0.0	0.0	0.0	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1	1.6 \pm 1.6		
1984-85	7.1 \pm 6.2	0.0	0.0	0.3 \pm 0.3	0.0	0.0	0.0	0.1 \pm 0.2	7.5 \pm 6.2		
Black drum											
1974-76	3.1 \pm 2.5	0.0	0.8 \pm 0.6	1.3 \pm 0.8	2.9 \pm 2.0	2.9 \pm 2.0	0.0	6.3 \pm 4.7	14.4 \pm 2.5		
1976-77	0.7	3.2	1.8	1.0	0.8	0.8	1.0	3.4	11.9		
1977-78	7.3	2.1	3.3	1.4	1.6	1.6	3.3	5.5	24.5		
1978-79	26.4	0.3	1.4	0.5	0.5	0.5	2.5	1.9	33.5		
1979-80	2.9 \pm 1.9	1.1 \pm 0.9	0.5 \pm 0.3	0.2 \pm 0.2	0.0	0.0	5.7 \pm 5.7	0.0	10.4 \pm 6.0		
1980-81	17.0 \pm 16.3	7.7 \pm 5.3	0.1 \pm 0.1	0.0	0.6 \pm 0.3	0.6 \pm 0.3	0.4 \pm 0.3	0.5 \pm 0.3	26.3 \pm 17.1		
1981-82	22.1 \pm 18.1	2.2 \pm 1.5	2.8 \pm 2.3	6.6 \pm 4.1	1.9 \pm 1.3	1.9 \pm 1.3	2.8 \pm 1.4	2.6 \pm 1.4	41.0 \pm 18.5		
1982-83	40.8 \pm 34.7	7.2 \pm 4.0	2.9 \pm 1.2	3.4 \pm 2.0	1.7 \pm 0.5	1.7 \pm 0.5	1.6 \pm 0.5	2.7 \pm 1.3	60.4 \pm 35.0		
1983-84	0.5 \pm 0.4	1.9 \pm 1.4	0.2 \pm 0.2	2.5 \pm 2.0	2.2 \pm 1.5	2.2 \pm 1.5	1.0 \pm 0.9	2.2 \pm 1.3	10.6 \pm 3.3		
1984-85	2.8 \pm 2.3	3.8 \pm 2.1	0.3 \pm 0.3	5.5 \pm 5.4	0.1 \pm 0.1	0.1 \pm 0.1	0.4 \pm 0.4	3.3 \pm 2.4	16.3 \pm 6.7		
Gafftopsail catfish											
1974-76	0.6 \pm 0.6	9.3 \pm 9.3	<.1 \pm <.1	5.6 \pm 5.6	0.0	0.0	0.0	0.0	15.5 \pm 4.9		
1976-77	2.6	0.8	2.6	0.3	1.7	1.7	0.0	0.0	8.0		
1977-78	1.5	2.9	0.6	1.1	0.1	0.1	0.0	0.0	6.2		
1978-79	14.4	0.3	0.5	2.3	1.5	1.5	0.0	0.0	19.0		
1979-80	0.0	0.0	0.3 \pm 0.3	0.0	2.5 \pm 2.5	2.5 \pm 2.5	0.2 \pm 0.2	0.0	3.0 \pm 2.5		
1980-81	9.2 \pm 7.6	0.6 \pm 0.6	0.0	0.0	0.7 \pm 0.7	0.7 \pm 0.7	0.0	0.0	10.5 \pm 7.7		
1981-82	0.0	1.9 \pm 1.9	0.0	1.8 \pm 1.8	14.5 \pm 14.1	14.5 \pm 14.1	0.1 \pm 0.1	0.0	18.3 \pm 14.3		
1982-83	0.1 \pm 0.1	0.6 \pm 0.5	1.2 \pm 0.7	0.0	1.8 \pm 1.2	1.8 \pm 1.2	0.0	0.0	3.7 \pm 1.5		
1983-84	0.0	0.4 \pm 0.4	0.0	0.5 \pm 0.2	0.0	0.0	0.0	0.0	0.9 \pm 0.5		
1984-85	0.6 \pm 0.6	0.0	0.0	0.3 \pm 0.3	0.2 \pm 0.2	0.2 \pm 0.2	0.0	0.1 \pm 0.1	1.2 \pm 0.7		

Table D.8. (Cont'd.)

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower				
						Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre			
Red drum												
1974-76	18.3 ± 7.7	0.9 ± 0.9	6.3 ± 2.4	7.7 ± 4.2	4.2 ± 3.0	1.3 ± 1.0	4.0 ± 2.1	42.7 ± 5.9				
1976-77	1.0	1.1	0.5	0.9	0.2	1.9	2.4	8.0				
1977-78	2.4	1.6	4.0	3.0	0.4	0.8	3.4	15.6				
1978-79	1.1	2.3	8.2	1.0	0.4	0.2	1.1	14.3				
1979-80	3.1 ± 3.1	0.9 ± 0.9	3.6 ± 1.9	4.4 ± 4.2	1.2 ± 0.8	4.3 ± 2.3	2.2 ± 2.2	19.7 ± 6.5				
1980-81	1.5 ± 1.0	1.1 ± 0.8	<.1 ± <.1	0.0	2.0 ± 1.7	1.9 ± 1.0	0.6 ± 0.3	7.1 ± 2.4				
1981-82	7.1 ± 4.5	0.4 ± 0.2	1.7 ± 0.8	2.5 ± 1.4	1.2 ± 0.5	1.6 ± 0.7	2.6 ± 1.4	17.1 ± 5.1				
1982-83	1.3 ± 1.3	0.5 ± 0.3	1.5 ± 0.5	3.1 ± 1.5	0.5 ± 0.2	0.8 ± 0.3	5.9 ± 2.4	13.6 ± 3.2				
1983-84	3.4 ± 1.9	5.3 ± 3.9	0.6 ± 0.5	2.8 ± 2.0	3.4 ± 2.4	0.4 ± 0.3	2.8 ± 1.8	18.7 ± 5.7				
1984-85	8.6 ± 4.8	1.8 ± 1.4	2.1 ± 0.8	2.4 ± 1.3	3.4 ± 3.3	0.4 ± 0.4	4.5 ± 2.8	23.2 ± 6.8				
Sand seatrout												
1974-76	215.7 ± 208.4	1.9 ± 1.9	3.4 ± 3.4	8.5 ± 8.2	6.7 ± 3.8	1.3 ± 1.3	0.0	237.5 ± 131.2				
1976-77	1.4	<.1	0.0	0.0	23.5	0.0	0.5	25.4				
1977-78	18.2	3.3	0.5	0.7	2.2	0.7	2.0	27.6				
1978-79	78.2	0.0	0.0	4.1	1.4	1.2	0.7	85.6				
1979-80	3.5 ± 2.3	0.0	0.0	0.0	3.9 ± 3.9	0.2 ± 0.1	0.0	7.7 ± 4.5				
1980-81	4.6 ± 2.6	0.0	0.0	0.0	3.8 ± 3.1	0.0	0.4 ± 0.4	8.8 ± 4.1				
1981-82	3.5 ± 2.7	1.5 ± 1.5	<.1 ± <.1	1.1 ± 1.0	10.7 ± 7.0	0.6 ± 0.4	2.7 ± 1.5	20.1 ± 7.9				
1982-83	0.7 ± 0.7	<.1 ± <.1	1.3 ± 0.7	4.7 ± 4.2	37.7 ± 16.2	0.2 ± 0.1	2.3 ± 1.4	46.9 ± 16.8				
1983-84	<.1 ± <.1	1.0 ± 1.0	0.0	0.3 ± 0.3	1.0 ± 1.0	0.0	0.6 ± 0.3	3.0 ± 1.5				
1984-85	13.6 ± 9.5	0.1 ± 0.1	0.0	0.0	0.2 ± 0.1	3.7 ± 2.9	0.2 ± 0.2	17.8 ± 10.0				
Sheepshead												
1974-76	13.4 ± 8.4	0.0	1.2 ± 0.6	39.6 ± 33.6	0.1 ± 0.1	5.1 ± 3.8	0.6 ± 0.6	60.0 ± 22.0				
1976-77	1.5	1.0	<.1	1.5	1.2	0.7	1.4	7.3				
1977-78	6.8	2.9	2.2	4.1	0.4	1.8	5.8	24.0				
1978-79	4.5	4.6	0.8	2.2	1.5	1.8	7.2	22.6				
1979-80	52.9 ± 47.3	0.0	0.3 ± 0.2	14.5 ± 14.5	2.2 ± 1.3	3.7 ± 2.4	16.3 ± 10.1	90.0 ± 50.6				
1980-81	8.9 ± 7.8	1.0 ± 0.9	<.1 ± <.1	13.8 ± 9.7	33.5 ± 19.2	2.5 ± 2.0	2.8 ± 1.5	62.5 ± 23.1				
1981-82	2.8 ± 1.9	4.5 ± 3.0	0.5 ± 0.3	3.7 ± 2.1	14.1 ± 8.0	0.9 ± 0.4	16.5 ± 9.3	43.0 ± 13.0				
1982-83	0.8 ± 0.5	5.6 ± 3.6	4.7 ± 1.6	14.2 ± 10.6	37.9 ± 21.8	1.0 ± 0.7	10.7 ± 6.5	74.9 ± 25.4				
1983-84	1.7 ± 1.7	6.3 ± 6.1	0.2 ± 0.2	11.6 ± 6.9	0.6 ± 0.4	0.2 ± 0.2	8.5 ± 4.9	29.2 ± 10.6				
1984-85	0.3 ± 0.3	2.0 ± 0.9	0.0	37.5 ± 27.1	0.9 ± 0.9	0.2 ± 0.2	2.6 ± 1.5	43.4 ± 27.1				

Table D.8. (Cont'd.)

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower		
			Antonio	Aransas			Laguna	Madre	Laguna	Madre	
Southern flounder											
1974-76	34.1 ± 16.6	11.6 ± 11.6	1.3 ± 0.7	5.9 ± 2.9	2.1 ± 1.3	9.0 ± 3.2	0.2 ± 0.2	64.2 ± 11.7			
1976-77	0.9	6.0	0.5	0.6	0.4	<.1	<.1	8.4			
1977-78	3.4	2.8	0.8	0.6	0.4	0.7	1.4	10.1			
1978-79	2.5	3.9	0.1	1.9	0.8	1.0	0.8	11.0			
1979-80	191.9 ± 191.5	1.0 ± 1.0	0.1 ± 0.1	0.0	1.4 ± 0.9	0.8 ± 0.4	0.9 ± 0.9	196.2 ± 191.5			
1980-81	0.3 ± 0.2	0.0	<.1 ± <.1	0.1 ± 0.1	9.7 ± 9.0	4.1 ± 3.0	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			
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			
1983-84	6.1 ± 3.2	2.2 ± 1.5	0.1 ± 0.1	1.2 ± 1.0	0.1 ± 0.1	0.8 ± 0.5	0.1 ± 0.1	10.7 ± 3.7			
1984-85	18.2 ± 12.4	0.4 ± 0.3	0.3 ± 0.2	0.5 ± 0.3	2.6 ± 1.6	0.1 ± 0.1	5.1 ± 2.5	27.3 ± 12.7			
Spotted seatrout											
1974-76	112.3 ± 66.0	16.7 ± 16.7	43.3 ± 16.5	89.5 ± 50.3	19.2 ± 8.1	74.0 ± 35.1	65.6 ± 33.6	420.6 ± 59.3			
1976-77	27.9	3.7	0.8	21.2	6.2	9.1	107.0	175.9			
1977-78	5.3	7.5	4.2	14.5	9.5	15.6	22.2	78.8			
1978-79	9.7	13.0	0.9	19.1	6.2	9.5	11.6	70.0			
1979-80	9.8 ± 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			
1980-81	83.4 ± 64.9	3.0 ± 2.5	2.1 ± 1.3	6.7 ± 4.9	16.8 ± 9.1	60.2 ± 31.5	18.7 ± 9.9	190.8 ± 73.6			
1981-82	20.3 ± 17.5	5.1 ± 4.1	4.5 ± 2.1	30.7 ± 9.5	34.6 ± 19.4	56.7 ± 31.9	26.2 ± 7.5	178.1 ± 43.2			
1982-83	6.4 ± 4.5	6.8 ± 4.7	5.2 ± 1.7	19.6 ± 8.5	13.0 ± 4.8	30.6 ± 9.4	35.8 ± 12.0	117.4 ± 19.3			
1983-84	57.7 ± 29.9	6.7 ± 4.1	0.8 ± 0.8	9.5 ± 7.3	6.9 ± 5.3	1.4 ± 1.0	19.2 ± 7.1	102.2 ± 32.3			
1984-85	10.7 ± 9.0	6.6 ± 3.0	0.7 ± 0.4	27.8 ± 21.9	5.3 ± 3.9	1.4 ± 0.8	24.4 ± 11.6	76.9 ± 26.8			
Other species											
1974-76	17.9 ± 14.0	1.9 ± 1.9	0.7 ± 0.5	0.0	0.2 ± 0.2	1.3 ± 1.3	0.0	22.0 ± 8.8			
1976-77	0.1	0.6	0.5	<.1	1.0	0.0	9.5	11.7			
1977-78	29.0	0.4	0.6	0.4	1.0	0.0	1.4	32.8			
1978-79	9.8	<.1	0.1	0.5	5.9	0.0	0.1	16.4			
1979-80	0.0	0.0	0.0	0.0	44.5 ± 44.5	0.2 ± 0.2	1.3 ± 1.3	46.0 ± 44.6			
1980-81	18.1 ± 12.2	<.1 ± <.1	<.1 ± <.1	0.0	3.0 ± 1.9	0.0	2.6 ± 2.1	23.8 ± 12.5			
1981-82	6.3 ± 2.6	0.9 ± 0.9	0.1 ± 0.1	0.9 ± 0.5	4.1 ± 1.8	<.1 ± <.1	0.8 ± 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			
1983-84	26.5 ± 26.5	0.5 ± 0.5	0.0	1.7	0.4	0.1 ± 0.1	2.0 ± 1.7	31.2			
1984-85	2.8	<.1 ± <.1	0.0	0.3 ± 0.3	2.2	<.1 ± <.1	0.4	5.8			

Table D.8. (Cont'd.)

Species Year	Bay system										Coastwide ^a						
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi			Upper		Lower			
												Laguna	Madre	Laguna	Madre		
All species combined ^b																	
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	2.0 ± 1.7	30.0 ± 18.6	14.7 ± 9.2	3.9 ± 2.8	35.4 ± 11.9	207.9 ± 49.1									
1984-85	64.8 ± 31.9	14.7 ± 5.8	3.5 ± 1.3	74.7 ± 41.5	14.8 ± 8.9	6.2 ± 3.2	40.7 ± 14.4	219.4 ± 55.4									

^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) ± 1 SE caught by private-boat fishermen in Texas bays and passes by species and bay system (1974-1985).

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
Atlantic croaker										
1974-76	0.24 ± 0.12	0.03 ± 0.02	0.02 ± 0.01	0.01 ± <.01	0.05 ± 0.02	0.21 ± 0.12	0.01 ± 0.01	0.14 ± 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 ± 0.06	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.02	0.22 ± 0.12	0.01 ± <.01	0.09 ± 0.03		
1980-81	0.17 ± 0.10	0.08 ± 0.04	0.01 ± <.01	0.01 ± <.01	0.20 ± 0.17	0.04 ± 0.01	0.02 ± 0.01	0.12 ± 0.05		
1981-82	0.10 ± 0.03	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.12 ± 0.06	0.03 ± 0.01	0.01 ± <.01	0.06 ± 0.01		
1982-83	0.12 ± 0.02	0.02 ± 0.01	<.01 ± <.01	0.02 ± 0.01	0.04 ± 0.01	0.03 ± 0.02	0.01 ± <.01	0.05 ± 0.01		
1983-84	0.08 ± 0.02	0.02 ± 0.01	<.01 ± <.01	0.06 ± 0.03	0.05 ± 0.02	0.04 ± 0.01	0.01 ± <.01	0.05 ± 0.01		
1984-85	0.14 ± 0.03	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.02 ± <.01	0.01 ± <.01	0.01 ± <.01	0.06 ± 0.01		
Black drum										
1974-76	0.01 ± <.01	0.03 ± 0.02	0.01 ± <.01	0.03 ± 0.03	0.05 ± 0.02	0.02 ± 0.01	0.03 ± 0.02	0.02 ± <.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 ± 0.01	0.03 ± 0.02	0.01 ± <.01	0.05 ± 0.03	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01		
1980-81	0.04 ± 0.02	0.07 ± 0.03	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.03 ± 0.01		
1981-82	0.03 ± 0.01	0.05 ± 0.01	0.05 ± 0.01	0.04 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.01		
1982-83	0.06 ± 0.02	0.06 ± 0.02	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.04 ± 0.01		
1983-84	0.01 ± <.01	0.03 ± 0.01	0.01 ± <.01	0.02 ± 0.02	0.01 ± <.04	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01		
1984-85	0.02 ± <.01	0.03 ± 0.01	0.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01		
Gafftopsail catfish										
1974-76	0.01 ± 0.01	0.03 ± 0.02	0.01 ± <.05	0.02 ± 0.02	0.01 ± 0.01	0.00	0.00	0.01 ± <.01		
1976-77	0.02	0.12	0.02	0.01	0.03	0.00	<.01	0.02		
1977-78	<.01	0.06	0.02	0.01	0.01	0.00	0.00	0.01		
1978-79	0.02	0.05	0.01	0.02	0.02	<.01	<.01	0.02		
1979-80	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.00	<.01 ± <.01		
1980-81	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.00	0.00	<.01 ± <.01		
1981-82	<.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± 0.01	0.05 ± 0.04	0.00	0.00	0.01 ± <.01		
1982-83	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.00	0.00	0.00	<.01 ± <.01		
1983-84	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	0.01 ± <.01	0.00	0.00	<.01 ± <.01		
1984-85	<.01 ± <.01	0.01 ± <.01	0.02 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.00	0.00	<.01 ± <.01		

Table D.9. (Cont'd.)

Species Year	Bay system									
	Upper					Lower				
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide	Laguna Madre	Coastwide
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	0.06 ± 0.03	0.05 ± 0.01
1976-77	0.03	0.05	0.10	0.04	0.06	0.02	0.03	0.04	0.03	0.04
1977-78	0.03	0.02	0.06	0.07	0.02	0.01	0.03	0.03	0.03	0.03
1978-79	0.02	0.04	0.09	0.01	0.02	0.01	0.02	0.02	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	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	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	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	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	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	0.04 ± 0.01	0.02 ± 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	0.02 ± 0.01	0.16 ± 0.07
1976-77	0.58	0.09	<0.1	0.14	0.53	0.05	0.04	0.25	0.04	0.25
1977-78	0.16	0.06	0.01	0.04	0.24	0.02	0.09	0.11	0.09	0.11
1978-79	0.34	0.04	<0.1	0.03	0.11	0.01	0.01	0.17	0.01	0.17
1979-80	0.15 ± 0.10	0.02 ± 0.01	0.02 ± 0.01	<0.1	0.19 ± 0.14	0.05 ± 0.03	0.03 ± 0.02	0.11 ± 0.05	0.03 ± 0.02	0.11 ± 0.05
1980-81	0.16 ± 0.05	0.04 ± 0.02	<0.1	0.04 ± 0.01	0.61 ± 0.52	0.01 ± 0.01	0.02 ± 0.01	0.16 ± 0.08	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	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 ± 0.01	0.03 ± 0.01	0.10 ± 0.01	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	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	0.04 ± 0.02	0.10 ± 0.02
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	<0.1	0.02 ± 0.01	<0.1	0.02 ± 0.01
1976-77	0.02	0.06	0.01	0.03	0.03	0.01	0.02	0.02	0.02	0.02
1977-78	0.08	0.05	0.02	0.04	0.02	0.01	0.02	0.06	0.02	0.06
1978-79	0.02	0.05	0.01	0.02	0.03	0.01	0.03	0.02	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	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	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	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	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	<0.1	<0.1	0.02 ± 0.01	0.02 ± 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	<0.1	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01

Table D.9. (Cont'd.)

Species Year	Bay system									
	Upper					Lower				
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide		
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	<0.01 ± <0.01	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 ± <0.01	0.03 ± 0.01	0.02 ± <0.01		
1982-83	0.06 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.02 ± <0.01	0.02 ± <0.01	0.05 ± 0.01	0.04 ± 0.01		
1983-84	0.03 ± 0.01	0.04 ± 0.01	0.01 ± <0.01	0.03 ± 0.02	0.03 ± 0.01	0.01 ± <0.01	0.02 ± <0.01	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 ± <0.01	0.02 ± <0.01	0.03 ± <0.01		
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		
Other species										
1974-76	0.03 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.01 ± <0.01	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	<0.01	<0.01	0.02		
1979-80	0.03 ± 0.02	0.02 ± 0.01	0.01 ± 0.01	0.01 ± <0.01	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 ± <0.01	0.01 ± <0.01	0.03 ± 0.01		
1982-83	0.05 ± 0.01	0.02 ± <0.01	0.02 ± <0.01	0.05 ± 0.01	0.10 ± 0.03	0.01 ± 0.01	0.02 ± <0.01	0.04 ± <0.05		
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		

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		1.08
1977-78	0.93	0.62	0.39	0.85	1.14	0.44	0.63	0.78		0.78
1978-79	0.93	0.49	0.25	0.64	0.67	0.40	0.48	0.69		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		

^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) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekends by species and bay system (1974-1984).

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

Table D.10. (Cont'd.)

Species Year	Bay system														
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide
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	0.06 ± 0.03	0.07 ± 0.06	0.07 ± 0.06	0.08 ± 0.03	0.04 ± 0.03	0.04 ± 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	0.06 ± 0.02	0.06 ± 0.03	0.06 ± 0.03	0.02 ± 0.01	0.04 ± 0.01	0.04 ± 0.01	0.04 ± 0.01	0.04 ± 0.01	
1977	0.03 ± 0.01	0.02 ± 0.01	0.04 ± 0.01	0.07 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	0.07 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	
1978	0.01 ± <.01	0.04 ± 0.02	0.02 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± <.01	
1979	0.01 ± 0.01	0.08 ± 0.04	0.07 ± 0.03	0.02 ± 0.01	0.02 ± 0.01	<.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.02 ± 0.01	
1980	0.01 ± 0.01	0.06 ± 0.30	0.04 ± 0.01	0.03 ± 0.02	0.04 ± 0.02	0.04 ± 0.01	0.03 ± 0.02	0.04 ± 0.02	0.04 ± 0.02	0.04 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	
1981	0.01 ± 0.01	0.03 ± 0.01	0.04 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.04 ± 0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.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	0.05 ± 0.01	0.04 ± 0.02	0.04 ± 0.01	0.04 ± 0.01	0.02 ± <.01	0.03 ± 0.01	0.03 ± 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	0.10 ± 0.03	0.05 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.02 ± <.01	0.06 ± 0.01	0.06 ± 0.01	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	0.04 ± 0.02	0.03 ± 0.01	0.03 ± 0.01	0.01 ± <.01	0.05 ± 0.01	0.05 ± 0.01	0.05 ± 0.01	0.02 ± <.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	0.03 ± 0.03	0.40 ± 0.22	0.40 ± 0.22	0.03 ± 0.01	0.06 ± 0.04	0.06 ± 0.04	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	<.01 ± <.01	0.15 ± 0.11	0.30 ± 0.11	0.30 ± 0.11	0.06 ± 0.04	0.04 ± 0.02	0.04 ± 0.02	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	0.01 ± 0.01	0.04 ± 0.02	0.23 ± 0.08	0.23 ± 0.08	0.02 ± 0.01	0.10 ± 0.04	0.10 ± 0.04	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	<.01 ± <.01	0.01 ± 0.01	0.12 ± 0.05	0.12 ± 0.05	0.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	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	0.03 ± 0.01	<.01 ± <.01	0.17 ± 0.08	0.17 ± 0.08	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.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	<.01 ± <.01	0.07 ± 0.03	0.27 ± 0.16	0.27 ± 0.16	0.01 ± <.01	0.03 ± 0.02	0.03 ± 0.02	0.03 ± 0.02	0.07 ± 0.02	
1981	0.04 ± 0.02	0.09 ± 0.08	0.02 ± 0.01	0.01 ± <.01	0.23 ± 0.09	0.02 ± 0.01	0.01 ± <.01	0.23 ± 0.09	0.23 ± 0.09	0.01 ± 0.01	0.08 ± 0.04	0.08 ± 0.04	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	0.03 ± 0.01	0.04 ± 0.02	0.25 ± 0.11	0.25 ± 0.11	0.01 ± <.01	0.05 ± 0.01	0.05 ± 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	0.02 ± 0.01	0.12 ± 0.07	0.12 ± 0.07	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 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	0.01 ± <.01	0.12 ± 0.06	0.09 ± 0.05	0.09 ± 0.05	0.05 ± 0.03	0.03 ± 0.01	0.03 ± 0.01	0.03 ± 0.01	0.13 ± 0.03	
Sheepshead															
1975	<.01 ± <.01	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.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	0.03 ± 0.02	0.03 ± 0.02	0.03 ± 0.02	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	
1977	0.07 ± 0.05	0.04 ± 0.02	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± 0.01	0.01 ± <.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	<.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.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	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.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 ± <.01	0.02 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 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	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	
1982	0.02 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	0.01 ± 0.01	<.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	
1983	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.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	0.01 ± <.01	<.01 ± <.01	<.01 ± 0.00	<.01 ± 0.00	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.01 ± <.01	

Table D.10. (Cont'd.)

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower		
			Antonio	Antonio			Laguna Madre	Laguna Madre			
Southern flounder											
1975	0.03 ± 0.03	0.04 ± 0.03	0.04 ± 0.02	0.10 ± 0.07	<.01 ± <.01	0.19 ± 0.18	0.01 ± 0.01	0.04 ± 0.02	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 ± <.01	0.01 ± <.01	0.02 ± <.01	0.01 ± <.01	0.02 ± <.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	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	<.01 ± <.01	0.02 ± 0.01	0.02 ± 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	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	0.03 ± 0.01	0.02 ± 0.01	
1981	0.01 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.01 ± <.01	0.02 ± <.01	0.01 ± <.01	0.02 ± <.01	0.01 ± <.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	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 ± <.01	0.02 ± 0.01	0.03 ± 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	<.01 ± <.01	0.02 ± <.01	<.01 ± <.01	0.02 ± <.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	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	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	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	0.28 ± 0.12	0.17 ± 0.03	
1979	0.10 ± 0.03	0.11 ± 0.05	0.38 ± 0.13	0.47 ± 0.21	0.26 ± 0.08	0.29 ± 0.12	0.41 ± 0.09	0.21 ± 0.03	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	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	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	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	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 ± <.01	0.10 ± 0.04	0.04 ± 0.01	0.10 ± 0.04	0.04 ± 0.01	
Other species											
1975	0.02 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.01 ± 0.01	0.04 ± 0.02	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.01	0.01 ± <.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 ± <.01	0.01 ± 0.01	0.02 ± <.01	
1977	0.01 ± <.01	0.05 ± 0.03	0.02 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.03 ± 0.02	0.01 ± <.01	0.01 ± 0.01	0.01 ± <.01	0.01 ± 0.01	
1978	0.03 ± 0.01	0.03 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01	<.01 ± <.01	0.02 ± <.01	<.01 ± <.01	0.02 ± <.01	
1979	0.07 ± 0.02	0.02 ± 0.01	0.01 ± <.01	0.01 ± 0.01	0.05 ± 0.02	0.01 ± <.01	0.01 ± <.01	0.04 ± 0.01	0.01 ± <.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	<.01 ± <.01	0.04 ± 0.01	<.01 ± <.01	0.04 ± 0.01	
1981	0.03 ± 0.01	0.03 ± 0.01	0.01 ± 0.01	0.01 ± <.01	0.05 ± 0.01	0.01 ± <.01	0.02 ± 0.01	0.02 ± 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	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	0.02	0.02	
1984	0.04	0.02	0.03	0.03	<.01 ± <.01	0.01	0.02	0.03	0.02	0.03	

Table D.10. (Cont'd.)

Species Year	Bay system														
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper		Lower		Coastwide
											Laguna	Madre	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							

^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 (1974-1984).

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			
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			
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	0.01	0.03	0.00	<.01	0.03			
1977	<.01	0.08	0.03	<.01	0.01	0.00	0.01	0.01			
1978	<.01	0.07	0.02	0.01	0.02	<.01	0.01	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	0.00	0.00	0.00	0.00	0.00			
1981	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm <.01	<.01 \pm <.01	0.01 \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	0.00	<.01 \pm <.01			
1984	<.01 \pm <.00	0.01 \pm 0.01	0.03 \pm 0.02	0.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	<.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 ± <.01	0.05 ± 0.01	0.06 ± 0.01	0.06 ± 0.02	0.03 ± 0.01	0.03 ± 0.01	0.04 ± 0.01	0.03 ± <.01		
1983	0.03 ± 0.01	0.08 ± 0.03	0.11 ± 0.03	0.07 ± 0.02	0.03 ± 0.01	0.02 ± <.01	0.07 ± 0.02	0.04 ± 0.01		
1984	0.01 ± <.01	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.03 ± 0.01	0.02 ± 0.01	0.05 ± 0.01	0.02 ± <.01		
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		
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 ± <.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		

Table D.11. (Cont'd.)

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

Table D.11. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
All species combined ^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		

^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) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the low-use season weekends by species and bay system (1974-1985).

Species Year	Bay system											
	San Antonio					Corpus Christi					Coastwide	
	Galveston	Matagorda	Aransas	Upper Laguna Madre	Lower Laguna Madre	Galveston	Matagorda	Aransas	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
Atlantic croaker												
1974-76	0.22 \pm 0.15	0.02 \pm 0.02	<.01 \pm <.01	0.11 \pm 0.09	0.01 \pm <.01	0.02 \pm 0.09	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	0.10 \pm 0.05	
1976-77	0.03 \pm 0.03	0.05 \pm 0.05	0.00	0.02 \pm 0.02	0.01 \pm 0.01	0.02 \pm 0.02	0.00	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.02 \pm 0.01	
1977-78	0.02 \pm 0.01	0.01 \pm 0.01	0.00	0.02 \pm 0.02	0.00	0.02 \pm 0.02	0.00	0.01 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	
1978-79	0.01 \pm 0.01	0.00	0.00	0.00	0.00	0.00	0.00	<.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	
1979-80	0.05 \pm 0.05	0.03 \pm 0.02	0.01 \pm 0.01	0.06 \pm 0.05	0.01 \pm 0.01	0.06 \pm 0.05	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.03 \pm 0.02	
1980-81	<.01 \pm <.01	0.01 \pm 0.01	0.00	0.01 \pm 0.01	0.00	0.01 \pm 0.01	0.00	0.01 \pm 0.01	0.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	
1981-82	<.01 \pm <.01	<.01 \pm <.01	0.00	0.01 \pm <.01	0.00	0.01 \pm <.01	0.00	0.03 \pm 0.02	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm <.01	
1982-83	0.02 \pm 0.01	0.04 \pm 0.03	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	
1983-84	<.01 \pm <.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03 \pm 0.02	
1984-85	0.04 \pm 0.03	0.01 \pm 0.01	0.00	<.01 \pm <.01	0.00	<.01 \pm <.01	0.00	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	
Black drum												
1974-76	0.03 \pm 0.02	0.03 \pm 0.03	<.01 \pm <.01	0.02 \pm 0.01	0.01 \pm 0.01	0.02 \pm 0.01	0.01 \pm 0.01	0.03 \pm 0.02	0.01 \pm 0.01	0.01 \pm 0.01	0.03 \pm 0.01	
1976-77	0.01 \pm <.01	0.04 \pm 0.03	0.03 \pm 0.02	0.02 \pm 0.01	0.01 \pm 0.01	0.02 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.02 \pm 0.01	0.02 \pm 0.01	0.02 \pm 0.01	
1977-78	0.03 \pm 0.01	0.02 \pm 0.01	0.05 \pm 0.03	0.04 \pm 0.04	0.02 \pm 0.01	0.04 \pm 0.04	0.02 \pm 0.01	0.02 \pm 0.01	0.03 \pm 0.01	0.03 \pm 0.01	0.03 \pm 0.01	
1978-79	0.10 \pm 0.08	<.01 \pm <.01	0.03 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.03 \pm 0.01	0.03 \pm 0.02	0.03 \pm 0.02	0.05 \pm 0.03	
1979-80	<.01 \pm <.01	0.06 \pm 0.06	0.02 \pm 0.01	0.03 \pm 0.02	0.01 \pm 0.01	0.03 \pm 0.02	0.00	0.01 \pm 0.01	0.03 \pm 0.01	0.03 \pm 0.01	0.02 \pm 0.01	
1980-81	0.10 \pm 0.09	0.09 \pm 0.09	0.01 \pm 0.01	0.02 \pm 0.01	0.01 \pm 0.01	0.02 \pm 0.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	0.01 \pm <.01	0.05 \pm 0.03	
1981-82	0.01 \pm <.01	0.05 \pm 0.03	0.05 \pm 0.04	0.01 \pm 0.01	0.05 \pm 0.04	0.01 \pm 0.01	0.03 \pm 0.02	0.04 \pm 0.03	0.03 \pm 0.02	0.03 \pm 0.02	0.02 \pm 0.01	
1982-83	0.03 \pm 0.03	0.02 \pm 0.01	0.03 \pm 0.02	0.02 \pm 0.01	0.03 \pm 0.02	0.02 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	0.03 \pm 0.01	0.03 \pm 0.01	0.02 \pm 0.01	
1983-84	0.03 \pm 0.02	0.03 \pm 0.02	0.02 \pm 0.01	0.03 \pm 0.03	0.02 \pm 0.01	0.03 \pm 0.03	0.03 \pm 0.03	<.01 \pm <.01	0.04 \pm 0.03	0.04 \pm 0.03	0.03 \pm 0.01	
1984-85	<.01 \pm <.01	0.02 \pm 0.01	0.04 \pm 0.02	0.01 \pm 0.01	0.04 \pm 0.02	0.01 \pm 0.01	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm <.01	
Gafftopsail catfish												
1974-76	<.01 \pm <.01	0.03 \pm 0.03	0.03 \pm 0.01	0.06 \pm 0.06	0.03 \pm 0.01	0.06 \pm 0.06	0.00	0.00	0.00	0.00	0.01 \pm <.01	
1976-77	0.02 \pm 0.02	0.01 \pm 0.01	0.04 \pm 0.03	0.03 \pm 0.02	0.04 \pm 0.03	0.03 \pm 0.02	<.01 \pm <.01	0.00	0.00	0.00	0.01 \pm 0.01	
1977-78	0.01 \pm <.01	0.03 \pm 0.02	0.01 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	0.00	0.00	0.00	0.01 \pm <.01	
1978-79	0.05 \pm 0.04	<.01 \pm <.01	0.01 \pm 0.01	0.04 \pm 0.03	0.01 \pm 0.01	0.02 \pm 0.01	0.04 \pm 0.03	0.00	0.00	0.00	0.03 \pm 0.01	
1979-80	0.00	0.00	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01	
1980-81	0.00	0.01 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	0.00	0.00	0.00	<.01 \pm <.01	
1981-82	0.00	<.01 \pm <.01	0.00	0.02 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01	
1982-83	0.00	0.00	0.03 \pm 0.03	0.02 \pm 0.01	0.03 \pm 0.03	0.02 \pm 0.01	<.01 \pm <.01	0.00	0.00	0.00	0.01 \pm <.01	
1983-84	<.01 \pm <.01	0.00	0.02 \pm 0.02	<.01 \pm <.01	0.02 \pm 0.02	<.01 \pm <.01	0.00	0.00	0.00	0.00	<.01 \pm <.01	
1984-85	0.00	0.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	<.01 \pm <.01	0.00	0.00	0.00	0.00	<.01 \pm <.01	

Table D.12. (Cont'd.)

Species Year	Bay system											
	San Antonio					Corpus Christi	Upper		Lower		Coastwide	
	Galveston	Matagorda	Aransas	Antonio	Aransas	Christi	Laguna	Madre	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 ± 0.01	0.03 ± 0.02	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 ± <0.01	0.03 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	
1977-78	0.01 ± 0.01	0.03 ± 0.02	0.13 ± 0.04	0.09 ± 0.05	0.01 ± 0.01	0.01 ± <0.01	0.01 ± <0.01	0.03 ± 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	<0.01 ± <0.01	<0.01 ± <0.01	0.02 ± 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 ± 0.04	0.06 ± 0.03	0.05 ± 0.03	0.05 ± 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	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	0.01 ± 0.01	0.03 ± 0.01	0.04 ± 0.02	0.04 ± 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	<0.01 ± <0.01	0.02 ± 0.01	0.03 ± 0.01	0.03 ± 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	<0.01 ± <0.01	0.06 ± 0.03	0.06 ± 0.03	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	0.02 ± 0.01	0.01 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 0.01	0.02 ± 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	0.01 ± 0.01	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	0.00	<0.01 ± <0.01	<0.01 ± <0.01	<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	0.01 ± 0.01	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	0.01 ± 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	0.01 ± 0.01	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	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	<0.01 ± <0.01	0.03 ± 0.02	0.03 ± 0.02	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	<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	0.06 ± 0.06	0.06 ± 0.06	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	0.01 ± 0.01	0.08 ± 0.06	0.08 ± 0.06	0.08 ± 0.06	0.02 ± 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	0.01 ± 0.01	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	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	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	0.01 ± 0.01	0.04 ± 0.02	0.04 ± 0.02	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	0.02 ± 0.01	0.11 ± 0.08	0.11 ± 0.08	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	<0.01 ± <0.01	0.12 ± 0.09	0.12 ± 0.09	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	0.01 ± 0.01	0.03 ± 0.02	0.03 ± 0.02	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	0.02 ± 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	0.02 ± 0.01	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	<0.01 ± <0.01	0.00	0.02 ± 0.02	0.02 ± 0.02	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	<0.01 ± <0.01	<0.01 ± <0.01	0.06 ± 0.04	0.06 ± 0.04	0.06 ± 0.04	0.02 ± 0.01	

Table D.12. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide
						Laguna Madre	Laguna Madre	Laguna Madre	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	0.01 ± <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	0.00	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	0.01 ± 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	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	0.01 ± 0.01	0.01 ± 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	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	0.03 ± 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 ± 0.01	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	<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	0.02 ± 0.01	0.03 ± 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	0.22 ± 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	0.54 ± 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	0.14 ± 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	0.17 ± 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	0.33 ± 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 ± 0.10	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	0.38 ± 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	0.28 ± 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	0.09 ± 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	0.14 ± 0.06	0.09 ± 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	0.01 ± 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	0.05 ± 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	0.01 ± 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	<0.01 ± <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	0.01 ± <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	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	<0.01 ± <0.01	0.06 ± 0.04	
1982-83	0.04 ± 0.03	0.00	0.02 ± 0.01	0.01 ± 0.01	0.12 ± 0.06	0.01 ± 0.01	<0.01 ± <0.01	<0.01 ± <0.01	0.04 ± 0.02	
1983-84	0.04	0.04 ± 0.03	0.02 ± 0.02	0.41 ± 0.41	0.01	0.04	<0.01	<0.01	0.05	
1984-85	<0.01 ± <0.01	0.06	0.01	0.01 ± 0.01	0.01	0.01	0.09	0.09	0.03	

Table D.12. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
All species combined ^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		

^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 (1974-1985).

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide
						Laguna	Madre	Laguna	Madre	
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	0.01 \pm 0.01	0.10 \pm 0.08	
1976-77	0.04	0.06	0.01	0.00	0.03	0.02	0.01	0.01	0.02	
1977-78	0.02	0.01	<.01	0.00	0.03	0.02	<.01	<.01	0.01	
1978-79	0.02	0.00	0.00	0.00	0.00	<.01	<.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	0.00	0.01 \pm 0.01	
1980-81	<.01 \pm <.01	0.01 \pm 0.01	0.00	0.00	<.01 \pm <.01	0.01 \pm <.01	0.04 \pm 0.04	0.04 \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	<.01 \pm <.01	0.01 \pm <.10	
1982-83	0.01 \pm 0.01	0.01 \pm 0.01	0.00	0.03 \pm 0.03	0.06 \pm 0.04	0.01 \pm 0.01	0.01 \pm 0.01	0.01 \pm 0.01	0.02 \pm 0.01	
1983-84	<.01 \pm <.01	0.00	0.00	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	
1984-85	0.05 \pm 0.04	0.00	0.00	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01	0.01 \pm 0.01	
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	0.04 \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	0.03	
1977-78	0.05	0.03	0.08	0.03	0.07	0.04	0.06	0.06	0.05	
1978-79	0.17	0.01	0.05	0.01	0.01	0.05	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	0.00	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	0.01 \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	0.04 \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	0.03 \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	0.03 \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 0.02	0.03 \pm 0.01	
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	0.00	0.02 \pm 0.02	
1976-77	0.04	0.02	0.07	0.01	0.05	0.00	0.00	0.00	0.02	
1977-78	0.01	0.05	0.01	0.02	<.01	0.00	0.00	0.00	0.01	
1978-79	0.09	0.01	0.02	0.07	0.03	0.00	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	0.00	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	0.00	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	0.00	0.04 \pm 0.03	
1982-83	0.01 \pm <.01	0.02 \pm 0.01	0.03 \pm 0.02	0.00	0.02 \pm 0.02	0.00	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	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	<.01 \pm <.01	

Table D.13. (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	0.04 ± 0.04	0.14 ± 0.07	0.05 ± 0.03	0.06 ± 0.04	0.01 ± 0.01	0.02 ± 0.02	0.04 ± 0.01
1976-77	0.01	0.03	0.01	0.02	0.01	0.04	0.02	0.02
1977-78	0.02	0.03	0.09	0.07	0.02	0.01	0.04	0.03
1978-79	0.01	0.04	0.28	0.03	0.01	<.01	0.03	0.03
1979-80	0.01 ± 0.01	0.03 ± 0.03	0.14 ± 0.09	0.22 ± 0.21	0.03 ± 0.02	0.05 ± 0.03	0.03 ± 0.03	0.03 ± 0.01
1980-81	0.01 ± 0.01	0.03 ± 0.02	0.01 ± 0.01	0.00	0.02 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01
1981-82	0.06 ± 0.04	0.01 ± 0.01	0.09 ± 0.05	0.03 ± 0.02	0.02 ± 0.01	0.02 ± 0.01	0.04 ± 0.02	0.03 ± 0.01
1982-83	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.02	0.05 ± 0.00	0.01 ± <.01	0.01 ± <.01	0.07 ± 0.03	0.03 ± 0.01
1983-84	0.01 ± 0.01	0.14 ± 0.11	0.04 ± 0.03	0.06 ± 0.05	0.08 ± 0.06	0.02 ± 0.01	0.03 ± 0.02	0.03 ± 0.02
1984-85	0.06 ± 0.04	0.03 ± 0.02	0.26 ± 0.12	0.03 ± 0.02	0.06 ± 0.06	<.01 ± <.01	0.04 ± 0.03	0.04 ± 0.02
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	0.20 ± 0.18
1976-77	0.02	<.01	0.00	0.00	0.76	0.00	<.01	0.06
1977-78	0.13	0.05	0.01	0.02	0.10	0.00	0.02	0.06
1978-79	0.51	0.00	0.00	0.12	0.03	0.02	0.02	0.20
1979-80	0.01 ± 0.01	0.00	0.00	0.00	0.10 ± 0.10	<.01 ± <.01	0.00	0.01 ± 0.01
1980-81	0.03 ± 0.02	0.00	0.00	0.00	0.04 ± 0.04	0.00	0.01 ± 0.01	0.02 ± 0.01
1981-82	0.03 ± 0.02	0.05 ± 0.05	<.01 ± <.01	0.01 ± 0.01	0.14 ± 0.10	0.01 ± 0.01	0.04 ± 0.02	0.04 ± 0.02
1982-83	0.01 ± 0.01	<.01 ± <.01	0.03 ± 0.02	0.07 ± 0.06	0.50 ± 0.24	<.01 ± <.01	0.03 ± 0.02	0.09 ± 0.03
1983-84	0.00	0.03 ± 0.03	0.00	0.01 ± 0.01	0.02 ± 0.02	0.00	0.01 ± <.01	<.01 ± <.01
1984-85	0.09 ± 0.07	<.01 ± <.01	0.00	0.00	<.01 ± <.01	0.04 ± 0.04	<.01 ± <.01	0.03 ± 0.02
Sheepshead								
1974-76	0.03 ± 0.02	0.00	0.03 ± 0.01	0.28 ± 0.24	<.01 ± <.01	0.05 ± 0.04	<.01 ± <.01	0.05 ± 0.03
1976-77	0.02	0.02	<.01	0.03	0.04	0.01	0.01	0.02
1977-78	0.05	0.05	0.05	0.09	0.02	0.02	0.06	0.05
1978-79	0.03	0.08	0.03	0.06	0.03	0.03	0.18	0.05
1979-80	0.13 ± 0.12	0.00	0.01 ± 0.01	0.73 ± 0.73	0.06 ± 0.04	0.05 ± 0.03	0.24 ± 0.19	0.13 ± 0.09
1980-81	0.05 ± 0.04	0.02 ± 0.02	<.01 ± <.01	0.81 ± 0.62	0.38 ± 0.25	0.02 ± 0.01	0.04 ± 0.03	0.11 ± 0.05
1981-82	0.02 ± 0.02	0.13 ± 0.09	0.03 ± 0.02	0.05 ± 0.03	0.19 ± 0.11	0.01 ± 0.01	0.23 ± 0.13	0.08 ± 0.03
1982-83	0.01 ± <.01	0.17 ± 0.11	0.11 ± 0.05	0.21 ± 0.16	0.51 ± 0.31	0.01 ± 0.04	0.12 ± 0.08	0.15 ± 0.05
1983-84	0.01 ± <.01	0.16 ± 0.16	0.01 ± 0.01	0.26 ± 0.18	0.02 ± 0.01	0.01 ± 0.01	0.10 ± 0.06	0.05 ± 0.02
1984-85	<.01 ± <.01	0.03 ± 0.02	0.00	0.51 ± 0.40	0.02 ± 0.02	<.01 ± <.01	0.02 ± 0.02	0.08 ± 0.05

Table D.13. (Cont'd.)

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

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	0.30 ± 0.21	0.51 ± 0.33	1.21 ± 0.81	0.79 ± 0.45	0.47 ± 0.32	0.44 ± 0.21	0.63 ± 0.21		
1981-82	0.54 ± 0.40	0.51 ± 0.28	0.59 ± 0.27	0.61 ± 0.22	1.10 ± 0.38	0.64 ± 0.46	0.74 ± 0.25	0.68 ± 0.17		
1982-83	0.55 ± 0.35	0.66 ± 0.32	0.44 ± 0.14	0.76 ± 0.34	1.43 ± 0.57	0.47 ± 0.17	0.75 ± 0.25	0.73 ± 0.15		
1983-84	0.26 ± 0.20	0.64 ± 0.43	0.12 ± 0.10	0.66 ± 0.47	0.35 ± 0.24	0.18 ± 0.14	0.43 ± 0.19	0.33 ± 0.16		
1984-85	0.44 ± 0.29	0.24 ± 0.14	0.43 ± 0.20	1.02 ± 0.67	0.25 ± 0.19	0.07 ± 0.05	0.36 ± 0.16	0.40 ± 0.13		

^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 (1974-1985). Blank = no fish weighed.

Species Year	Bay system											
	San					Upper					Lower	
	Galveston	Matagorda	Antonio	Aransas	Christi	Laguna	Madre	Laguna	Madre	Coastwide		
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	0.30 \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	0.48 \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	0.23 \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	0.25 \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	0.22 \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	0.21 \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	0.28 \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	0.27 \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	0.37 \pm 0.12	0.37 \pm 0.12	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	0.17 \pm 0.01	0.18 \pm 0.02			
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	2.56 \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	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	4.88 \pm 5.02	2.03 \pm 1.22			
1978-79	4.22 \pm 10.20	1.65 \pm 1.30	5.94 \pm 5.92	0.44 \pm 0.16	1.77 \pm 1.14	2.50 \pm 1.71	7.24 \pm 8.50	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	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	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	1.29 \pm 0.85	0.67 \pm 0.18			
1982-83	1.63 \pm 1.67	0.42 \pm 0.16	3.57 \pm 3.57	0.46 \pm 0.14	0.81 \pm 2.28	1.05 \pm 0.37	0.99 \pm 0.51	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	1.12 \pm 0.32	1.12 \pm 0.32	1.39 \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	1.51 \pm 0.65	1.59 \pm 0.44			
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				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			0.22 \pm <.01	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	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 0.35	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 0.02	0.23 \pm <.01	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	1.13 \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	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	0.13 \pm 0.05	1.10 \pm 0.14			

Table D.14. (Cont'd.)

Species Year	Bay system											
	San					Upper					Lower	
	Galveston	Matagorda	Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide			
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	0.66 ± 0.30	0.62 ± 0.09				
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				
Spotted seatrout												
1974-76	0.66 ± 0.28	0.41 ± 0.36	0.42 ± 0.14	0.32 ± 0.14	0.38 ± 0.17	0.54 ± 0.13	0.54 ± 0.22	0.44 ± 0.10				
1976-77	0.60 ± 0.22	0.24 ± 0.05	0.49 ± 0.13	0.34 ± 0.22	0.49 ± 0.33	0.56 ± 0.38	0.48 ± 0.16	0.49 ± 0.17				
1977-78	0.36 ± 0.11	0.25 ± 0.05	0.46 ± 0.20	0.32 ± 0.17	0.44 ± 0.23	0.45 ± 0.12	0.54 ± 0.18	0.48 ± 0.12				
1978-79	0.71 ± 0.31	0.42 ± 0.18	0.40 ± 0.15	0.33 ± 0.26	0.45 ± 0.15	0.56 ± 0.20	0.48 ± 0.47	0.49 ± 0.14				
1979-80	0.45 ± 0.13	0.46 ± 0.41	0.45 ± 0.10	0.38 ± 0.10	0.52 ± 0.15	0.51 ± 0.17	0.45 ± 0.18	0.47 ± 0.07				
1980-81	0.66 ± 0.29	0.43 ± 0.08	0.47 ± 0.14	0.41 ± 0.06	0.51 ± 0.25	0.44 ± 0.11	0.49 ± 0.16	0.50 ± 0.10				
1981-82	0.62 ± 0.20	0.45 ± 0.09	0.51 ± 0.07	0.41 ± 0.07	0.55 ± 0.14	0.46 ± 0.06	0.31 ± 0.05	0.51 ± 0.05				
1982-83	0.76 ± 0.28	0.52 ± 0.12	0.55 ± 0.10	0.48 ± 0.14	0.54 ± 0.08	0.50 ± 0.11	0.61 ± 0.12	0.56 ± 0.06				
1983-84	0.84 ± 0.05	0.66 ± 0.03	0.59 ± 0.02	0.51 ± 0.02	0.61 ± 0.03	0.67 ± 0.02	0.98 ± 0.18	0.72 ± 0.05				
1984-85	0.92 ± 0.04	0.74 ± 0.05	0.72 ± 0.04	0.76 ± 0.58	0.73 ± 0.05	0.62 ± 0.02	0.67 ± 0.02	0.74 ± 0.10				
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 ± 3.50	0.39 ± 0.29	0.50 ± 0.46	0.56 ± 0.55	0.62 ± 1.03	0.57 ± 0.38				
1977-78	0.43 ± 0.72	0.62 ± 0.65	0.62 ± 0.36	0.44 ± 0.43	0.56 ± 1.04	0.50 ± 0.24	0.77 ± 1.34	0.54 ± 0.40				
1978-79	0.76 ± 4.54	0.58 ± 0.39	0.72 ± 0.89	0.42 ± 0.38	0.49 ± 0.27	0.59 ± 0.43	0.81 ± 2.63	0.68 ± 1.35				
1979-80	0.28 ± 0.17	0.54 ± 0.36	0.64 ± 0.65	0.44 ± 0.14	0.77 ± 1.36	0.53 ± 0.20	0.51 ± 0.32	0.52 ± 0.28				
1980-81	0.61 ± 1.46	0.50 ± 0.40	0.61 ± 0.25	0.50 ± 0.16	0.52 ± 0.22	0.46 ± 0.15	0.54 ± 0.19	0.55 ± 0.27				
1981-82	0.51 ± 0.25	0.50 ± 0.18	0.62 ± 0.27	0.49 ± 0.13	0.51 ± 0.20	0.49 ± 0.12	0.64 ± 0.25	0.54 ± 0.09				
1982-83	0.58 ± 0.45	0.55 ± 0.20	0.86 ± 0.57	0.58 ± 0.18	0.52 ± 0.43	0.56 ± 0.17	0.67 ± 0.16	0.61 ± 0.14				
1983-84	0.72 ± 0.06	0.80 ± 0.05	0.80 ± 0.03	0.57 ± 0.05	0.53 ± 0.04	0.69 ± 0.02	0.99 ± 0.32	0.75 ± 0.09				
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				

^aIncludes "other" species.

Table D.15. Mean weights of fishes (kg/fish) \pm 1 SE caught by private-boat fishermen in Texas bays and passes during the high-use season weekends by species and bay system (1974-1984). Blank = no fish weighed.

Species Year	Bay system							Coastwide
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Atlantic croaker								
1974-75								
1976	0.20 \pm 0.12	0.19 \pm <.01	0.27 \pm 0.09	0.15 \pm <.01	0.32 \pm 0.21	0.35 \pm 0.19	0.33 \pm 0.18	0.26 \pm 0.14
1977	0.23 \pm 0.08	0.15 \pm 0.04	0.24 \pm 0.06	0.22 \pm 0.07	0.26 \pm 0.10	0.25 \pm 0.12	0.28 \pm 0.11	0.24 \pm 0.05
1978	0.22 \pm 0.10	0.13 \pm 0.07	0.39 \pm 0.14	0.27 \pm 0.14	0.21 \pm 0.11	0.28 \pm 0.06	0.23 \pm 0.05	0.22 \pm 0.06
1979	0.18 \pm 0.16	0.18 \pm 0.14	0.23 \pm 0.03	0.12 \pm 0.03	0.26 \pm 0.10	0.35 \pm 0.19	0.25 \pm 0.10	0.22 \pm 0.15
1980	0.21 \pm 0.12	0.28 \pm 0.12	0.30 \pm 0.09	0.10 \pm 0.08	0.24 \pm 0.09	0.25 \pm 0.08	0.22 \pm 0.06	0.22 \pm 0.06
1981	0.19 \pm 0.08	0.16 \pm 0.03	0.21 \pm 0.16	0.31 \pm 0.11	0.30 \pm 0.16	0.27 \pm 0.13	0.22 \pm 0.16	0.23 \pm 0.09
1982	0.17 \pm 0.10	0.15 \pm 0.23	0.12 \pm <.01	0.34 \pm <.01	0.28 \pm 0.08	0.28 \pm 0.04	0.21 \pm 0.04	0.24 \pm 0.09
1983	0.22 \pm 0.05	0.16 \pm 0.04	0.20 \pm 0.05	0.27 \pm 0.08	0.30 \pm 0.09	0.30 \pm 0.10	0.39 \pm 0.06	0.25 \pm 0.04
1984	0.21 \pm 0.04	0.16 \pm 0.01	0.17 \pm 0.02	0.33 \pm 0.03	0.21 \pm 0.01	0.33 \pm 0.01	0.26 \pm 0.02	0.24 \pm 0.03
	0.16 \pm 0.01	0.13 \pm 0.02	0.14 \pm 0.03	0.23 \pm 0.01	0.17 \pm 0.01	0.21 \pm 0.05	0.19 \pm 0.02	0.16 \pm 0.01
Black drum								
1974-75								
1976	1.26 \pm 0.90	1.18 \pm 0.29	1.22 \pm 0.54	0.45 \pm <.01	0.60 \pm 0.20	4.29 \pm 2.76	1.06 \pm <.01	1.09 \pm 0.60
1977	0.78 \pm 0.61	0.42 \pm 0.14	0.54 \pm 0.45	0.74 \pm 0.19	0.74 \pm 0.12	0.77 \pm 0.33	0.88 \pm 0.46	0.72 \pm 0.16
1978	0.91 \pm 0.48	0.47 \pm 0.16	0.79 \pm 0.18	0.34 \pm 0.18	0.77 \pm 0.44	1.22 \pm 0.51	0.79 \pm 0.40	0.81 \pm 0.23
1979	1.22 \pm 0.63	1.67 \pm 1.37	1.03 \pm 0.40	0.22 \pm 0.08	1.26 \pm 0.88	2.88 \pm 2.25	1.27 \pm 0.50	1.35 \pm 0.38
1980	0.40 \pm 0.10	0.46 \pm 0.52	0.39 \pm 0.06	0.50 \pm 0.12	0.65 \pm 0.28	0.52 \pm 0.30	1.12 \pm <.01	0.46 \pm 0.10
1981	0.48 \pm 0.42	0.42 \pm 0.38	0.40 \pm 0.16	0.38 \pm 0.04	0.80 \pm 0.46	0.68 \pm 0.25	0.40 \pm 0.07	0.54 \pm 0.23
1982	0.67 \pm 0.24	0.41 \pm 0.09	0.53 \pm 0.04	0.54 \pm 0.09	0.59 \pm 0.34	0.56 \pm 0.09	2.39 \pm 0.72	0.74 \pm 0.50
1983	1.33 \pm 2.16	0.39 \pm 0.17	0.84 \pm 0.31	0.35 \pm 0.05	0.46 \pm 0.17	0.77 \pm 0.33	1.55 \pm 2.00	0.89 \pm 0.70
1984	0.99 \pm 0.24	0.55 \pm 0.06	0.84 \pm 0.06	0.84 \pm 0.14	0.67 \pm 0.03	1.16 \pm 0.19	1.89 \pm 0.64	0.80 \pm 0.13
	1.12 \pm 0.22	0.60 \pm 0.09	0.88 \pm 0.18	0.96 \pm 0.96	0.97 \pm 0.05	0.38 \pm 0.09	1.43 \pm 0.28	1.05 \pm 0.19
Gafftopsail catfish								
1974-75								
1976	1.47 \pm 0.07	0.59 \pm <.01	1.39 \pm 0.11	1.29 \pm 0.25				1.27 \pm 0.06
1977	2.06 \pm 0.77	1.24 \pm 0.09	1.08 \pm 0.16	1.52 \pm 0.37	1.52 \pm 0.30		0.22 \pm <.01	1.62 \pm 0.41
1978	0.88 \pm 0.15	1.39 \pm 0.24	1.43 \pm 0.13	1.90 \pm 1.05	1.27 \pm 0.30			1.33 \pm 0.16
1979	1.28 \pm 0.49	1.45 \pm 0.53	0.88 \pm 0.47	1.51 \pm 0.82	1.24 \pm 0.34	2.42 \pm 0.87	0.83 \pm 0.71	1.27 \pm 0.27
1980	0.72 \pm 0.23	1.21 \pm 0.52	1.51 \pm 0.32		1.62 \pm 0.08	1.02 \pm <.01		1.32 \pm 0.28
1981	1.24 \pm 0.19	1.28 \pm 0.45	0.67 \pm 0.27	1.37 \pm 0.27	1.17 \pm 0.75	0.35 \pm <.01		1.19 \pm 0.21
1982	0.81 \pm 0.31	1.37 \pm 0.44	1.79 \pm 0.05	1.09 \pm 0.30	1.33 \pm 0.13		1.40 \pm 1.00	1.28 \pm 0.17
1983	0.72 \pm 0.40	0.96 \pm 0.22	1.72 \pm 0.16	0.87 \pm 0.38	0.77 \pm 0.34	0.20 \pm 0.05		0.92 \pm 0.16
1984	0.38 \pm 0.38	1.03 \pm 0.13	1.04 \pm 0.05	1.00 \pm 0.05	1.36 \pm 0.10	1.10 \pm 0.18		1.06 \pm 0.13
	1.07 \pm 0.22	1.16 \pm 0.14	1.24 \pm 0.13	0.58 \pm 0.29	1.70 \pm 0.13	0.24 \pm 0.24		1.07 \pm 0.18

Table D.15. (Cont'd.)

Species Year	Bay system									
	Upper					Lower				
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Laguna Madre	Coastwide	
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	2.38 ± 0.63	1.56 ± 0.18		
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		
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	0.02 ± 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	0.44 ± 0.17	0.29 ± 0.03		
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		
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		

Table D.15. (Cont'd.)

Species Year	Bay system										Coastwide				
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi			Upper Laguna Madre		Lower Laguna Madre	
Southern flounder															
1974-75	0.45 ± 0.28	0.98 ± 0.01	0.60 ± 0.07	0.57 ± 0.10	0.81 ± 0.32	0.73 ± 0.12	0.92 ± 0.40	0.69 ± 0.07							
1976	0.68 ± 0.20	0.43 ± 0.07	0.69 ± 0.25	0.41 ± 0.09	0.74 ± 0.41	0.59 ± 0.12	0.78 ± 0.14	0.66 ± 0.12							
1977	0.69 ± 0.16	0.55 ± 0.25	0.63 ± 0.13	0.51 ± 0.27	0.74 ± 0.08	0.78 ± 0.10	0.88 ± 0.21	0.67 ± 0.10							
1978	0.68 ± 0.27	0.54 ± 0.19	0.59 ± 0.27	0.43 ± 0.12	0.55 ± 0.22	0.81 ± 0.15	0.52 ± 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	0.64 ± 0.02	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							
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 ± 0.33	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	0.88 ± 0.14	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							
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 ± 0.48	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	1.08 ± 0.24	0.71 ± 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							

^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 (1974-1984). Blank = no fish weighed.

Species Year	Bay system										
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide	
						Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
Atlantic croaker											
1974-75	0.19 \pm 0.04	0.35 \pm <.01	0.22 \pm 0.22	0.22 \pm <.01	0.46 \pm <.01	0.36 \pm 0.15	0.39 \pm <.01	0.26 \pm 0.11			0.26 \pm 0.11
1976											
1977											
1978											
1979	0.15 \pm <.01		0.42 \pm 0.08		0.10 \pm <.01	0.26 \pm 0.13		0.24 \pm 0.08			0.24 \pm 0.08
1980	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			0.24 \pm 0.08
1981	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			0.29 \pm 0.16
1982	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			0.26 \pm 0.08
1983	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	0.63 \pm 0.41	0.27 \pm 0.03			0.27 \pm 0.03
1984	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			0.22 \pm 0.03
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	0.47 \pm 0.07	0.64 \pm 0.38	1.10 \pm 0.36	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	0.32 \pm 0.16	0.64 \pm 0.42	0.80 \pm 0.25	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	0.90 \pm 0.08	0.89 \pm 0.14	0.76 \pm 0.10	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	0.94 \pm 0.22	0.55 \pm 0.12	0.71 \pm 0.22	0.90 \pm 0.37	1.31 \pm 0.21			
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		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	1.14 \pm 0.59	1.48 \pm 0.44	0.39 \pm 0.09	1.43 \pm 0.56	0.19 \pm <.01	0.23 \pm <.01	1.28 \pm 0.31			
1982	1.52 \pm 0.48	1.50 \pm 0.40	1.03 \pm 0.13	0.95 \pm 0.19	1.06 \pm 0.48	0.20 \pm 0.00	0.60 \pm 0.00	1.14 \pm 0.27			
1983	0.73 \pm 0.10	0.84 \pm 0.08	1.14 \pm 0.19	1.13 \pm 0.18	1.44 \pm 0.12	1.68 \pm 1.68	0.78 \pm 0.11	1.19 \pm 0.13			
1984	0.99 \pm 0.15	1.36 \pm 0.23	0.71 \pm 0.02	1.20 \pm 0.23	1.36 \pm 0.13	0.37 \pm 0.37	0.18 \pm 0.18	1.10 \pm 0.18			

Table D.16. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio		Aransas	Corpus Christi	Upper		Lower	
			Galveston	Matagorda			Laguna	Madre	Laguna	Madre
Southern flounder										
1974-75	0.45 ± 0.28	0.36 ± <.01	0.62 ± 0.13	1.14 ± <.01			0.70 ± 0.28			0.62 ± 0.10
1976										
1977										
1978										
1979	0.70 ± 0.06		0.76 ± 0.48				0.68 ± 0.46		0.83 ± 0.01	0.75 ± 0.27
1980	0.63 ± 0.21	0.64 ± 0.15	0.62 ± 0.06	0.76 ± 0.14	0.62 ± 0.24	0.59 ± 0.08	0.66 ± 0.11		0.59 ± 0.08	0.64 ± 0.10
1981	0.62 ± 0.16	0.47 ± 0.06	0.72 ± 0.07	0.52 ± 0.12	0.55 ± 0.24	0.79 ± 0.07	0.65 ± 0.13		0.79 ± 0.07	0.61 ± 0.10
1982	0.66 ± 0.13	0.53 ± 0.12	0.66 ± 0.13	0.47 ± 0.07	0.48 ± 0.06	0.63 ± 0.07	0.69 ± 0.10		0.63 ± 0.07	0.61 ± 0.05
1983	0.55 ± 0.05	0.51 ± 0.03	0.68 ± 0.05	0.49 ± 0.02	0.58 ± 0.04	0.68 ± 0.07	0.71 ± 0.04		0.68 ± 0.07	0.61 ± 0.03
1984	0.57 ± 0.04	0.60 ± 0.05	0.63 ± 0.04	0.53 ± 0.04	0.52 ± 0.04	0.53 ± 0.08	0.78 ± 0.12		0.53 ± 0.08	0.56 ± 0.04
Spotted seatrout										
1974-75	0.59 ± 0.67	0.29 ± <.01	0.45 ± 0.19	0.25 ± 0.08	0.53 ± <.01	0.49 ± 0.64	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	0.46 ± 0.35	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	0.45 ± 0.12	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	0.54 ± 0.12	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	0.57 ± 0.13	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	0.59 ± 0.03	0.69 ± 0.02		0.59 ± 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	0.64 ± 0.02	0.70 ± 0.06		0.64 ± 0.02	0.74 ± 0.06
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	0.61 ± 1.02	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	0.46 ± 0.03	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	0.51 ± 0.27	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	0.62 ± 0.24	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	0.63 ± 0.16	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	0.81 ± 0.25	0.73 ± 0.04		0.81 ± 0.25	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	0.76 ± 0.07	0.96 ± 0.15		0.76 ± 0.07	0.78 ± 0.09

^aIncludes "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 (1974-1985). Blank = no fish weighed.

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower		
			Antonio	Antonio			Laguna Madre	Laguna Madre			
Atlantic croaker											
1974-76	0.16 \pm 0.06			0.34 \pm <.01	0.14 \pm <.01	0.25 \pm 0.07	0.31 \pm 0.05	0.21 \pm 0.03	0.21 \pm 0.03	0.18 \pm 0.04	
1976-77	0.26 \pm 0.12	0.16 \pm <.01		0.28 \pm 0.03		0.22 \pm 0.02	0.18 \pm 0.01	0.30 \pm 0.11	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 <.01		0.29 \pm 0.05	0.34 \pm 0.14	0.26 \pm 0.08	0.26 \pm 0.08	0.28 \pm 0.03	
1978-79	0.15 \pm 0.07						0.22 \pm <.01	0.19 \pm 0.09	0.19 \pm 0.09	0.16 \pm 0.05	
1979-80	0.10 \pm <.01	0.13 \pm <.01		0.11 \pm <.01		0.18 \pm 0.01	0.29 \pm 0.03	0.21 \pm <.01	0.21 \pm <.01	0.14 \pm 0.09	
1980-81	1.00 \pm <.01	0.07 \pm <.01				0.26 \pm 0.05	0.23 \pm 0.12	0.21 \pm 0.06	0.21 \pm 0.06	0.23 \pm 0.09	
1981-82	0.25 \pm 0.14	0.14 \pm <.01				0.21 \pm 0.11	0.30 \pm 0.02	0.38 \pm 0.18	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	0.13 \pm 0.12	0.20 \pm 0.09	
1983-84	0.09 \pm 0.04	0.20 \pm 0.08			0.31 \pm 0.31					0.29 \pm 0.29	
1984-85	0.13 \pm 0.00	0.11 \pm 0.01				0.23 \pm 0.23	0.17 \pm 0.03	0.17 \pm 0.01	0.17 \pm 0.01	0.14 \pm 0.03	
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	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	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	5.95 \pm 6.65	3.27 \pm 2.45	
1978-79	6.84 \pm 14.25	0.45 \pm <.01		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	9.67 \pm 10.55	6.54 \pm 5.54	
1979-80	0.60 \pm <.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	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 0.08	0.66 \pm <.01	0.93 \pm 0.21	0.57 \pm 0.05	0.67 \pm 0.02	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	0.88 \pm 0.51	0.85 \pm 0.38	
1982-83	0.62 \pm 0.00	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	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 \pm 0.40	1.34 \pm 1.34		0.77 \pm 0.53	0.77 \pm 0.53	3.76 \pm 1.67	
1984-85	3.97 \pm 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	5.18 \pm 3.70	3.39 \pm 1.47	
Gafftopsail catfish											
1974-76	1.78 \pm 0.81	1.79 \pm <.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 <.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 <.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 <.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 <.01	1.59 \pm 0.07				1.43 \pm 0.46	
1980-81		0.70 \pm <.01		1.08 \pm 0.34	2.21 \pm <.01	1.34 \pm <.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 \pm 0.00	1.84 \pm 1.84		1.57 \pm 0.05		1.44 \pm 1.44				1.29 \pm 0.11	
1984-85		0.91 \pm 0.19		0.89 \pm 0.89		0.88 \pm 0.88				0.90 \pm 0.37	

Table D.17. (Cont'd.)

Species Year	Bay system									
	Upper					Lower				
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide		
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 ± <0.1	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 ± 1.52	1.93 ± 0.67	2.42 ± 0.53	1.52 ± 0.23	1.82 ± 0.29		
1984-85	2.75 ± 2.75	2.01 ± 0.22	1.26 ± 0.09	1.99 ± 0.31	1.23 ± 0.33	1.36 ± 0.15	1.47 ± 0.20	1.61 ± 0.32		
Sand seatrout										
1974-76	0.33 ± 0.15		0.34 ± 0.02	0.31 ± <0.1	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 ± <0.1		0.26 ± 0.03	0.76 ± 0.31	0.80 ± <0.1	0.29 ± 0.01	0.38 ± 0.34		
1978-79	0.30 ± 0.08			0.25 ± 0.17	0.48 ± 0.14	0.38 ± <0.1	0.34 ± <0.1	0.30 ± 0.04		
1979-80	0.30 ± <0.1	0.20 ± <0.1		0.40 ± <0.1	0.26 ± 0.05	0.50 ± 0.12	0.33 ± 0.23	0.28 ± 0.06		
1980-81	0.30 ± <0.1	0.36 ± <0.1			0.32 ± 0.11	0.40 ± <0.1	0.20 ± <0.1	0.30 ± 0.08		
1981-82			0.22 ± <0.1	0.28 ± <0.1	0.31 ± 0.07	0.39 ± 0.08	0.40 ± 0.04	0.32 ± 0.04		
1982-83		0.49 ± 0.00	0.15 ± 0.00		0.35 ± 0.13	0.30 ± 0.10	0.45 ± 0.00	0.35 ± 0.09		
1983-84	0.12 ± 0.12	0.36 ± 0.07	0.38 ± 0.38	0.50 ± 0.50			0.40 ± 0.40	0.14 ± 0.14		
1984-85			0.44 ± 0.01			0.47 ± 0.47	0.27 ± 0.01	0.29 ± 0.04		
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	0.91 ± 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 ± <0.1	0.85 ± 0.26	0.74 ± 0.48		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 ± <0.1	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 ± 0.00	1.12 ± 0.72	0.94 ± 0.00	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 ± 1.75	0.66 ± 0.66		0.88 ± 0.00	0.86 ± 0.14		
1984-85	1.13 ± 1.13	0.86 ± 0.07	1.27 ± 0.05	1.11 ± 0.12	1.47 ± 1.47	1.06 ± 1.06	0.69 ± 0.09	0.81 ± 0.15		

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 ± <.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 ± <.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 ± 0.00	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 ± 0.59	0.51 ± 0.51		0.72 ± 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			
Spotted seatrout											
1974-76	0.60 ± 0.36	0.56 ± 0.45	0.40 ± 0.20	0.38 ± 0.21	0.33 ± 0.25	0.54 ± 0.24	0.53 ± 0.40	0.45 ± 0.19			
1976-77	0.64 ± 0.33	0.58 ± 0.06	0.63 ± 0.10	0.40 ± 0.16	0.56 ± 0.15	0.53 ± 0.17	0.55 ± 0.43	0.55 ± 0.16			
1977-78	0.80 ± 0.08	0.65 ± 0.85	0.48 ± 0.19	0.48 ± 0.37	0.49 ± 0.46	0.48 ± 0.14	0.50 ± 0.11	0.51 ± 0.12			
1978-79	0.76 ± 0.96	0.42 ± 0.01	0.58 ± 0.31	0.48 ± 0.16	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 ± 0.45	0.53 ± 0.53	0.76 ± 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			
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			

^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 (1974-1985). Blank = no fish weighed.

Species Year	Bay system										
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide	
						Laguna Madre	Laguna Madre	Laguna Madre	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											
1978-79											
1979-80		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	
1980-81	0.20 \pm 0.12				0.29 \pm 0.08					0.19 \pm 0.06	
1981-82	0.25 \pm 0.06				0.15 \pm 0.10	0.24 \pm 0.02	0.34 \pm 0.08			0.22 \pm 0.04	
1982-83	0.17 \pm 0.02	0.15 \pm 0.16		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	
1983-84	0.08 \pm 0.08					0.31 \pm 0.31	0.29 \pm 0.29			0.09 \pm 0.09	
1984-85	0.14 \pm 0.00			0.33 \pm 0.33			0.20 \pm 0.12			0.14 \pm 0.01	
Black drum											
1974-76	0.49 \pm 0.48		0.51 \pm 0.79	1.00 \pm 9.09	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			1.79 \pm <.01				1.58 \pm 1.46	
1980-81	7.26 \pm 5.63	0.46 \pm 0.37	15.58 \pm <.01		0.84 \pm 0.21	0.20 \pm <.01	0.76 \pm 0.44			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	0.54 \pm 0.41	0.80 \pm 0.50	0.87 \pm 0.84			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	2.45 \pm 2.22	1.32 \pm 0.42	0.63 \pm 0.52			2.83 \pm 2.59	
1983-84	1.83 \pm 0.75	1.89 \pm 1.48	0.83 \pm 0.18	1.36 \pm 0.44	1.24 \pm 0.38	1.76 \pm 0.05	0.67 \pm 0.20			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 \pm 0.54	0.87 \pm 0.87	0.85 \pm 0.78			1.73 \pm 0.47	
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					1.72 \pm <.01	
1981-82		1.09 \pm <.01		1.69 \pm 0.04	1.15 \pm <.01	0.15 \pm <.01				1.46 \pm 0.93	
1982-83	2.05 \pm 0.00	2.23 \pm 0.16	0.96 \pm 0.32		1.18 \pm 0.87					1.34 \pm 0.45	
1983-84		1.10 \pm 1.10		1.01 \pm 0.03	1.38 \pm 1.10					1.30 \pm 0.71	
1984-85	0.53 \pm 0.53			1.83 \pm 1.83	0.88 \pm 0.88		0.08 \pm 0.08			1.05 \pm 0.53	

Table D.18. (Cont'd.)

Species Year	Bay system													
	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper		Lower	
											Laguna Madre	Laguna Madre		Coastwide
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	2.65 ± <.01	1.16 ± 0.46	0.70 ± 0.18	0.91 ± 0.21	1.00 ± 0.21						
1981-82	0.98 ± 0.08	2.79 ± 1.37	0.57 ± 0.21	0.52 ± 0.21	1.23 ± 0.36	1.06 ± 0.19	0.91 ± 0.31	1.02 ± 0.19						
1982-83	0.85 ± 0.00	1.61 ± 0.17	1.49 ± 0.20	2.35 ± 1.15	1.61 ± 0.38	1.23 ± 0.34	0.85 ± 0.50	1.20 ± 0.39						
1983-84	1.86 ± 0.61	1.90 ± 0.09	1.35 ± 0.20	1.68 ± 0.05	1.74 ± 0.18	2.01 ± 0.38	1.74 ± 0.14	1.78 ± 0.25						
1984-85	1.60 ± 0.27	1.78 ± 0.42	1.53 ± 0.18	1.83 ± 0.10	1.10 ± 0.35	1.28 ± 1.28	1.78 ± 0.16	1.59 ± 0.26						
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				0.33 ± 0.05		0.31 ± 0.04	0.33 ± 0.03						
1981-82	0.34 ± 0.03	0.19 ± <.01	0.25 ± 0.00	0.29 ± 0.03	0.30 ± 0.08	0.34 ± 0.16	0.31 ± 0.04	0.30 ± 0.04						
1982-83	0.39 ± 0.00	0.50 ± 0.00	0.22 ± 0.02	0.25 ± 0.00	0.28 ± 0.10	0.85 ± 0.05	0.31 ± 0.03	0.27 ± 0.06						
1983-84	0.43 ± 0.43	0.36 ± 0.36		0.19 ± 0.03	0.51 ± 0.51	0.40 ± 0.02	0.34 ± 0.04	0.39 ± 0.31						
1984-85	0.31 ± 0.04	0.24 ± 0.24			0.55 ± 0.13		0.22 ± 0.06	0.33 ± 0.04						
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		0.58 ± 0.14	0.74 ± 0.26	1.33 ± 0.24	1.00 ± 0.17	0.77 ± 0.24						
1981-82	1.21 ± 0.14	0.98 ± 0.46	0.25 ± <.01	0.80 ± 0.19	0.62 ± 0.27	1.43 ± 0.58	0.67 ± 0.30	0.68 ± 0.16						
1982-83	1.20 ± 0.65	0.50 ± 0.18	0.85 ± 0.31	0.85 ± 0.34	1.00 ± 0.24	1.34 ± 0.11	0.59 ± 0.47	0.86 ± 0.36						
1983-84	1.01 ± 1.01	0.49 ± 0.03	1.06 ± 0.03	1.12 ± 0.04	0.91 ± 0.34	1.52 ± 0.23	0.63 ± 0.03	0.83 ± 0.10						
1984-85	0.23 ± 0.23	0.86 ± 0.10		1.05 ± 0.02	1.00 ± 1.00	1.01 ± 1.01	0.82 ± 0.11	1.02 ± 0.05						

Table D.18. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide
						Laguna Madre	Laguna Madre	Laguna Madre	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	0.42 ± <.01		0.72 ± 0.07		0.43 ± 0.14	0.93 ± 0.19	0.62 ± <.01	0.53 ± 0.12		
1980-81	0.55 ± 0.24		0.45 ± <.01	0.38 ± 0.12	0.67 ± 0.20	0.81 ± 0.01	0.49 ± 0.07	0.62 ± 0.10		
1981-82	0.59 ± 0.06	0.50 ± 0.22	0.54 ± 0.08	0.48 ± 0.08	0.65 ± 0.15	0.48 ± 0.05	0.55 ± 0.16	0.55 ± 0.06		
1982-83	0.37 ± 0.19	0.37 ± 0.10	0.89 ± 0.19	0.52 ± 0.08	0.41 ± 0.08	0.77 ± 0.12	0.64 ± 0.19	0.69 ± 0.15		
1983-84	0.56 ± 0.10	0.45 ± 0.08	0.59 ± 0.12	0.35 ± 0.01	0.26 ± 0.01	0.99 ± 0.17	0.60 ± 0.05	0.55 ± 0.09		
1984-85	0.54 ± 0.04	0.46 ± 0.14	0.38 ± 0.06	0.35 ± 0.05	0.58 ± 0.07	0.47 ± 0.47	0.32 ± 0.02	0.50 ± 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	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		
1980-81	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		
1981-82	0.02 ± 0.18	0.60 ± 0.70	0.57 ± 0.21	0.52 ± 0.21	0.53 ± 0.30	0.49 ± 0.09	0.60 ± 0.26	0.54 ± 0.10		
1982-83	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		
1983-84	1.00 ± 0.15	0.52 ± 0.13	0.56 ± 0.56	0.46 ± 0.01	0.67 ± 0.06	0.82 ± 0.17	0.61 ± 0.05	0.81 ± 0.11		
1984-85	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		
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	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		
1980-81	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		
1981-82	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		
1982-83	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		
1983-84	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		
1984-85	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		

^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 (1983-1985). Blank = no fish measured.

Species Year	Bay system										Coastwide
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower		
			Antonio	Antonio			Laguna Madre	Laguna Madre			
Atlantic croaker											
1983-84	254 \pm 9	234 \pm 4	231 \pm 6	295 \pm 6	281 \pm 5	289 \pm 3	265 \pm 6	266 \pm 7			
1984-85	235 \pm 5	216 \pm 7	219 \pm 16	258 \pm 8	249 \pm 7	242 \pm 15	235 \pm 6	240 \pm 5			
Black drum											
1983-84	454 \pm 53	362 \pm 18	378 \pm 8	382 \pm 13	383 \pm 12	408 \pm 17	365 \pm 32	384 \pm 27			
1984-85	459 \pm 27	430 \pm 57	295 \pm 19	354 \pm 18	372 \pm 12	353 \pm 20	370 \pm 50	420 \pm 32			
Gafftopsail catfish											
1983-84	416 \pm 23	471 \pm 18	499 \pm 17	472 \pm 15	517 \pm 9	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	338 \pm 5	247 \pm 33	470 \pm 23			
Red drum											
1983-84	536 \pm 22	513 \pm 7	501 \pm 7	497 \pm 7	490 \pm 9	516 \pm 7	510 \pm 7	509 \pm 8			
1984-85	555 \pm 13	572 \pm 10	533 \pm 11	528 \pm 11	524 \pm 10	537 \pm 13	563 \pm 6	546 \pm 8			
Sand seatrout											
1983-84	281 \pm 4	287 \pm 10	291 \pm 11	287 \pm 8	304 \pm 7	317 \pm 4	298 \pm 6	290 \pm 6			
1984-85	272 \pm 8	284 \pm 5	296 \pm 13	281 \pm 4	276 \pm 5	292 \pm 5	288 \pm 4	275 \pm 7			
Sheepshead											
1983-84	346 \pm 4	344 \pm 9	384 \pm 6	378 \pm 12	356 \pm 10	391 \pm 7	343 \pm 6	354 \pm 7			
1984-85	354 \pm 4	357 \pm 5	390 \pm 7	387 \pm 4	390 \pm 8	411 \pm 14	348 \pm 8	368 \pm 4			
Southern flounder											
1983-84	350 \pm 5	364 \pm 8	372 \pm 8	345 \pm 6	350 \pm 5	387 \pm 6	385 \pm 6	356 \pm 6			
1984-85	356 \pm 5	360 \pm 6	373 \pm 6	341 \pm 6	348 \pm 7	361 \pm 17	326 \pm 10	353 \pm 6			
Spotted seatrout											
1983-84	435 \pm 8	397 \pm 6	388 \pm 4	369 \pm 4	390 \pm 5	399 \pm 3	401 \pm 4	402 \pm 4			
1984-85	449 \pm 6	418 \pm 7	417 \pm 6	432 \pm 11	418 \pm 8	399 \pm 3	405 \pm 3	425 \pm 4			
All species combined^a											
1983-84	370 \pm 8	400 \pm 6	411 \pm 5	350 \pm 8	348 \pm 8	391 \pm 4	407 \pm 5	377 \pm 6			
1984-85	316 \pm 10	406 \pm 10	428 \pm 12	362 \pm 13	370 \pm 9	354 \pm 13	409 \pm 7	349 \pm 9			

^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 (1983-1984). Blank = no fish measured.

Species Year	Bay system															
	Day type	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide
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	259 \pm 6	286 \pm 5	259 \pm 6	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	288 \pm 4	286 \pm 5	259 \pm 6	268 \pm 8	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	234 \pm 7	241 \pm 22	244 \pm 9	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	251 \pm 8	245 \pm 6	213 \pm 9	213 \pm 9	247 \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	354 \pm 5	409 \pm 19	435 \pm 18	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	385 \pm 24	372 \pm 15	391 \pm 49	391 \pm 49	374 \pm 24		
1984																
	Weekend	396 \pm 27	340 \pm 14	349 \pm 28	405 \pm 405	396 \pm 6	298 \pm 24	443 \pm 30	390 \pm 25	396 \pm 6	298 \pm 24	443 \pm 30	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	327 \pm 20	363 \pm 40	344 \pm 64	344 \pm 64	414 \pm 24		
Gafftopsail catfish																
1983																
	Weekend	338 \pm 338	465 \pm 19	473 \pm 8	460 \pm 11	574 \pm 12	480 \pm 23	467 \pm 46	467 \pm 46	574 \pm 12	480 \pm 23	439 \pm 19	439 \pm 19	467 \pm 46		
	Weekday	421 \pm 22	446 \pm 16	487 \pm 27	484 \pm 29	523 \pm 15	560 \pm 560	489 \pm 20	489 \pm 20	523 \pm 15	560 \pm 560	439 \pm 19	439 \pm 19	489 \pm 20		
1984																
	Weekend	471 \pm 33	483 \pm 17	499 \pm 20	352 \pm 74	559 \pm 13	305 \pm 305	462 \pm 32	462 \pm 32	559 \pm 13	305 \pm 305	279 \pm 270	279 \pm 270	462 \pm 32		
	Weekday	455 \pm 26	510 \pm 31	423 \pm 5	484 \pm 34	513 \pm 11	341 \pm 341	472 \pm 37	472 \pm 37	513 \pm 11	341 \pm 341	279 \pm 270	279 \pm 270	472 \pm 37		
Red drum																
1983																
	Weekend	582 \pm 38	493 \pm 10	485 \pm 7	489 \pm 8	463 \pm 8	511 \pm 8	508 \pm 11	498 \pm 10	463 \pm 8	511 \pm 8	508 \pm 11	508 \pm 11	498 \pm 10		
	Weekday	498 \pm 19	512 \pm 12	506 \pm 8	501 \pm 12	501 \pm 12	522 \pm 10	513 \pm 8	507 \pm 10	501 \pm 12	522 \pm 10	513 \pm 8	513 \pm 8	507 \pm 10		
1984																
	Weekend	520 \pm 17	592 \pm 9	578 \pm 17	512 \pm 18	549 \pm 12	549 \pm 17	566 \pm 8	541 \pm 10	549 \pm 12	549 \pm 17	566 \pm 8	566 \pm 8	541 \pm 10		
	Weekday	588 \pm 15	574 \pm 12	567 \pm 9	541 \pm 16	523 \pm 10	544 \pm 21	573 \pm 11	558 \pm 11	523 \pm 10	544 \pm 21	573 \pm 11	573 \pm 11	558 \pm 11		

Table D.20. (Cont'd.)

Species Year	Bay system															
	Day type	Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide
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							
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							
Southern flounder																
1983																
	Weekend	346 ± 6	377 ± 10	368 ± 12	361 ± 11	341 ± 14	390 ± 9	382 ± 5	359 ± 8							
	Weekday	354 ± 9	341 ± 7	383 ± 10	338 ± 3	353 ± 6	380 ± 8	390 ± 13	356 ± 7							
1984																
	Weekend	359 ± 7	359 ± 6	379 ± 6	340 ± 8	368 ± 12	368 ± 35	357 ± 19	359 ± 8							
	Weekday	355 ± 9	363 ± 10	375 ± 8	349 ± 10	344 ± 8	392 ± 19	342 ± 19	353 ± 10							
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							

Table D.20. (Cont'd.)

Species Year	Bay system										
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		Coastwide
							Laguna	Madre	Laguna	Madre	
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			

^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 (1983-1985). Blank = no fish measured.

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
Atlantic croaker										
1983-84										
Weekend	192 \pm 24			285						276 \pm 137
Weekday	186					288		282		191 \pm 186
1984-85										
Weekend	216 \pm 2	208 \pm 7			260	235 \pm 11		238 \pm 4		224 \pm 24
Weekday	221 \pm 0			294				238 \pm 53		224 \pm 12
Black drum										
1983-84										
Weekend	693 \pm 122	400 \pm 73	369 \pm 12	297	449			309 \pm 44		576 \pm 100
Weekday	488 \pm 79	422 \pm 78	383 \pm 26	426 \pm 28	405 \pm 21	497 \pm 5		351 \pm 41		414 \pm 32
1984-85										
Weekend	638	669 \pm 108	272 \pm 28		379 \pm 23	287 \pm 14		553 \pm 211		509 \pm 119
Weekday	715 \pm 57	396 \pm 77	297 \pm 36	340 \pm 12	337	382		300 \pm 51		410 \pm 45
Gafftopsail catfish										
1983-84										
Weekend	490 \pm 1	575	541 \pm 6		533					511 \pm 31
Weekday		490		468 \pm 5						478 \pm 151
1984-85										
Weekend		449 \pm 28	450		457					450 \pm 125
Weekday	388			575	455			214		433 \pm 404
Red drum										
1983-84										
Weekend	542 \pm 28	552 \pm 12	552 \pm 18	514	558 \pm 66	603 \pm 46		505 \pm 27		540 \pm 46
Weekday	534 \pm 58	556 \pm 7	497 \pm 18	540 \pm 5	539 \pm 17	567 \pm 35		532 \pm 16		541 \pm 17
1984-85										
Weekend	617	550 \pm 20	480 \pm 10	555 \pm 33	470 \pm 44	494 \pm 15		494 \pm 27		512 \pm 43
Weekday	523 \pm 27	537 \pm 39	515 \pm 18	554 \pm 9	460 \pm 31	494		530 \pm 14		518 \pm 27

Table D.21. (Cont'd.)

Species Year	Bay system											Coastwide	
											Lower		
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Laguna Madre				
Sand seatrout													
1983-84												230	
Weekend	225	357 ± 1	327	359							335	316 ± 11	326 ± 202
Weekday	342	317		262 ± 15	360								
1984-85													
Weekend		320 ± 17	338 ± 3		369 ± 28	352						289 ± 2	297 ± 13
Weekday	307 ± 15	283				332 ± 5						276 ± 22	312 ± 14
Sheepshead													
1983-84													
Weekend	369 ± 5	353 ± 16	360 ± 23	471	335							361 ± 1	360 ± 26
Weekday	376	298 ± 6	393 ± 4	397 ± 5	363 ± 54	446 ± 26						323 ± 6	353 ± 22
1984-85													
Weekend	395	364 ± 9	416 ± 5	390 ± 20	442	394						332 ± 14	350 ± 19
Weekday	231	362 ± 14		388 ± 3	383	386						358 ± 15	384 ± 14
Southern flounder													
1983-84													
Weekend	348 ± 29	383 ± 66	355 ± 8	371	354							390	363 ± 83
Weekday	360 ± 22	336 ± 17	367 ± 27	314 ± 3	287 ± 1	427 ± 28						372 ± 9	354 ± 18
1984-85													
Weekend	326 ± 4	331 ± 22	353 ± 22	332 ± 11	340 ± 5	326 ± 10						331 ± 8	329 ± 7
Weekday	355 ± 7	331 ± 35	316 ± 13	309 ± 15	363 ± 13	344						299 ± 4	344 ± 7
Spotted seatrout													
1983-84													
Weekend	407 ± 14	420 ± 13	395 ± 11	361	386	418						451 ± 5	417 ± 33
Weekday	458 ± 26	374 ± 31	388	362 ± 3	410 ± 10	430 ± 23						391 ± 11	427 ± 19
1984-85													
Weekend	463 ± 60	436 ± 13	433 ± 20	443 ± 16	405 ± 6	398 ± 2						420 ± 9	422 ± 9
Weekday	441 ± 4	438 ± 8	439 ± 5	414 ± 3	398 ± 5	396 ± 5						411 ± 6	418 ± 4

Table D.21. (Cont'd.)

Species Year	Bay system									
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
All species combined ^a										
1983-84										
Weekend	463 ± 75	436 ± 17	452 ± 13	321 ± 43	432 ± 25	418 ± 26	424 ± 31	431 ± 41		
Weekday	416 ± 28	384 ± 37	429 ± 6	385 ± 8	432 ± 19	457 ± 16	384 ± 15	404 ± 20		
1984-85										
Weekend	489 ± 53	434 ± 38	413 ± 18	418 ± 12	402 ± 12	376 ± 17	388 ± 21	415 ± 20		
Weekday	381 ± 25	412 ± 26	447 ± 22	404 ± 5	366 ± 25	362 ± 10	384 ± 19	391 ± 14		

^aIncludes "other" species.

Table D.22 Percent composition of "other" species caught by private-boat fishermen in Texas bays and passes by bay system, season and day type (1983 - 1985).

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide	
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
1983-84	High use	Weekend	African pompano	<u>Alectis alaiis</u>	0.33								0.06
			Alligator gar	<u>Lepisosteus spatula</u>							16.16		2.01
			Atlantic cutlassfish	<u>Trichiurus lepturus</u>					2.55				0.44
			Atlantic spadefish	<u>Chaetodipterus faber</u>	5.94								1.13
			Bighead searobin	<u>Prionotus tribulus</u>			0.27						0.06
			Blue catfish	<u>Ictalurus furcatus</u>			16.00						3.76
			Bluefish	<u>Pomatomus saltatrix</u>	9.90		1.07		1.82				2.51
			Blue runner	<u>Caranx crysos</u>					0.36				0.13
			Bony fishes	<u>Class Osteichthyes</u>			0.27						0.06
			Channel catfish	<u>Ictalurus punctatus</u>			0.80						0.19
			Cobia	<u>Rachycentrum canadum</u>			0.27						0.06
			Common carp	<u>Cyprinus carpio</u>		1.30	3.20		0.72			1.01	0.13
			Crevalle Jack	<u>Caranx hippos</u>			1.87			0.87		2.02	1.25
			Florida pompano	<u>Trachinotus carolinus</u>	0.99					1.31		1.01	0.94
			Gray triggerfish	<u>Balistes capriscus</u>			0.80		0.72				0.25
			Gulf flounder	<u>Paralichthys albigutta</u>			0.27		11.51		4.74	3.06	2.70
			Gulf kingfish	<u>Menticirrhus littoralis</u>	6.93		23.38		2.88		0.73		5.71
			Gulf toadfish	<u>Opsanus beta</u>	0.33						0.36		0.13
			Hardhead catfish	<u>Arius felis</u>	16.17		1.30		9.60		6.20	4.55	7.08
			Jacks sp.	Family Carangidae	0.33								0.06
			King mackerel	<u>Scomberomorus cavalla</u>			0.27			0.36		2.53	0.44
			Ladyfish	<u>Elops saurus</u>						1.09	2.18		0.63
			Needlefish sp.	Family Belontiidae	0.66				0.72				0.13
			Atlantic needlefish	<u>Strongylura marina</u>					0.72				0.13
			Permit	<u>Trachinotus falcatus</u>	0.33								0.06
			Pigfish	<u>Orthopristis chrysoptera</u>	12.87		0.53		7.19		23.36	30.57	11.60
			Pinfish	<u>Lagodon rhomboides</u>	0.99		4.27		6.47		23.72	23.58	9.22
			Sawfishes sp.	Family Pristidae								0.44	0.06
			Sharks sp.										
			Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	0.66		1.87			1.09			0.75

Table D.22. (Cont'd.)

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

Table D.22. (Cont'd.)

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

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system							Coastwide	
					Galveston	Matagorda	San Antonio	Aransas	Christi	Upper Laguna Madre	Lower Laguna Madre		
			Snappers sp.	Family Lutjanidae	0.98								0.17
			Dog snapper	<u>Lutjanus jocu</u>					0.27				0.06
			Gray snapper	<u>Lutjanus griseus</u>			0.26		1.60		0.63		0.46
			Red snapper	<u>Lutjanus campechanus</u>			0.26		1.07				0.29
			Snook	<u>Centropomus undecimalis</u>					0.27		1.90		0.23
			Southern kingfish	<u>Menticirrhus americanus</u>	19.61	16.95	47.14	25.45	9.60	3.33	37.97		25.07
			Spanish mackerel	<u>Scomberomorus maculatus</u>	8.50	6.78	8.00	0.26	1.07		0.63		3.71
			Spot	<u>Leiostomus xanthurus</u>		5.08		0.77					0.35
			Stringray sp.	Family Dasyatidae									
			Atlantic stingray	<u>Disyatis sabina</u>	2.29								0.41
			Striped burrfish	<u>Chilomycterus schoepfi</u>			0.29						0.06
			Striped mullet	<u>Mugil cephalus</u>				21.85					4.92
			Tarpon	<u>Megalops atlanticus</u>			0.29						0.06
			Three-eyed flounder	<u>Ancylopsetta dilecta</u>				0.26					0.06
			Tripletail	<u>Lobotes surinamensis</u>	0.33								0.06
			White mullet	<u>Mugil cephalus</u>			0.29						0.06
Low use													
	Weekend		Gulf kingfish	<u>Menticirrhus littoralis</u>			1.92						0.90
			Hardhead catfish	<u>Arius felis</u>	50.00				33.33	86.67			22.81
			Pigfish	<u>Orthopristis chrysoptera</u>	8.33								1.80
			Silver perch	<u>Bairdiella chrysura</u>	4.17								0.90
			Southern kingfish	<u>Menticirrhus americanus</u>	35.50		98.08		66.67	13.33	100.00		72.73
Weekday													
			Gulf flounder	<u>Paralichthys albigutta</u>							4.76		1.75
			Gulf kingfish	<u>Menticirrhus littoralis</u>							9.52		3.51
			Hardhead catfish	<u>Arius felis</u>		100.00			16.00				14.04
			Ladyfish	<u>Elops saurus</u>							4.76		1.75
			Sharks sp.										
			Bonnethead	<u>Sphyrna tiburo</u>			100.00		84.00				1.75
			Southern kingfish	<u>Menticirrhus americanus</u>				100.00			80.95		77.19

Table D.22. (Cont'd.)

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

Table D.22. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Bay system								
					Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide	
			Bonnethead	<u>Sphyrna tiburo</u>	11.36		10.99					4.85	4.80
			Finetooth shark	<u>Carcharhinus isodon</u>	7.95		3.66						1.92
			Great hammerhead	<u>Sphyrna mokarran</u>		0.26							0.08
			Requiem sharks	Family <u>Carcharhinidae</u>			0.37						0.08
			Sandbar shark	<u>Carcharhinus plumbeus</u>		0.57	0.37						0.16
			Scalloped hammerhead	<u>Sphyrna lewini</u>			0.37					0.49	0.16
			Smalleye hammerhead	<u>Sphyrna tudes</u>			0.37						0.08
			Spinner shark	<u>Carcharhinus brevipinna</u>			2.56						0.56
			Silver perch	<u>Bairdiella chrysur</u>	1.70				9.09	3.77	1.46		5.28
			Silver seatrout	<u>Cynoscion nothus</u>		14.04							0.24
			Snapper sp.			0.78							
			Red snapper	<u>Lutjanus campechanus</u>			0.37						1.68
			Southern kingfish	<u>Meuticirrhus americanus</u>	5.68		24.54		6.02				17.84
			Spanish mackerel	<u>Scomberomorus maculatus</u>	33.52		0.37		5.26				1.36
			Spot	<u>Leiostomus xanthurus</u>	1.14				9.77				0.08
			Stringray sp.	Family <u>Dasyalidae</u>		0.26							0.08
			Atlantic stingray	<u>Dasyatis sabina</u>			0.73						0.16
			Southern stingray	<u>Dasyatis americana</u>	1.70								0.24
			Striped mullet	<u>Mugil cephalus</u>		0.26	9.16		2.26				2.48
			Tarpon	<u>Megalops atlanticus</u>	0.57					4.55			0.16
			Tripletail	<u>Lobotes surinamensis</u>	1.14		0.37			2.27			0.24
Weekday			Alligator gar	<u>Lepisosteus spatula</u>								0.94	0.30
			Atlantic cutlassfish	<u>Trichiurus lepturus</u>		4.65							1.18
			Atlantic spadefish	<u>Chaetodipterus faber</u>						2.14			0.44
			Bighead searobin	<u>Prionotus tribulus</u>									0.15
			Blue caffish	<u>Ictalurus furcatus</u>		7.35							0.74
			Bluefish	<u>Pomatomus saltatrix</u>			0.67						0.15
			Blue runner	<u>Caranx crysos</u>									1.03
			Cobia	<u>Rachycentrum canadum</u>	1.47		0.67		2.78			6.60	3.25
			Crevalle jack	<u>Caranx hippos</u>		3.49							0.30
			Florida pompano	<u>Trachinotus carolinus</u>		1.16							0.89
			Gray triggerfish	<u>Balistes capricus</u>		1.16							3.55
			Gulf flounder	<u>Paralichthys albigutta</u>			2.00		2.78				3.84
							10.00		60.00			8.49	

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			
Low use												
Weekend	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>										0.19
	Blue catfish	<u>Ictalurus furcatus</u>	6.45									4.21
	Channel catfish	<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						0.38
	Gulf kingfish	<u>Menticirrhus littoralis</u>	2.31		12.64							2.68
	Hardhead catfish	<u>Arius felis</u>	5.38		4.76							6.88
	Molly miller	<u>Scartella cristata</u>										1.15
	Pigfish	<u>Orthopristis chrysoptera</u>										8.22
	Pinfish	<u>Lagodon rhomboides</u>										0.19
	Seabasses sp.											
	Comb grouper	<u>Mycteroperca rubra</u>										0.38
	Gag	<u>Mycteroperca microlepis</u>										0.19
	Searobin sp.	Family Triglidae				3.23						0.19
	Bighead searobin	<u>Prionotus tribulus</u>										0.19
	Sharks sp.											
	Atlantic sharpnose shark	<u>Rhizoprionodon terranovae</u>										0.19
	Bonnethead	<u>Sphyrna tiburo</u>										3.06
	Requiem sharks	Family Carcharhinidae								6.06		2.49
	Silver perch	<u>Bairdiella chrysura</u>										9.94
	Smallmouth buffalo	<u>Ictiobus bubalus</u>	6.45									0.19
	Snappers sp.											
	Red snapper	<u>Lutjanus campechanus</u>										7.46
	Southern hake	<u>Urophycis floridanus</u>										0.19
	Southern kingfish	<u>Menticirrhus americanus</u>										43.98

Table D.23. Percent composition of the annual residential origin of private-boat fishermen in Texas bays and passes by bay system (1974-85).

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
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
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
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

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
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
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
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

^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 in Texas bays and passes during the high-use season by bay system and day type (1974-1985). Blank = no fishermen interviewed.

Bay system 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								
1974-75	77	13	0	9	69	25	0	6
1976	89	8	0	3				
1977	95	5	0	0				
1978	97	0	0	2				
1979	95	2	0	3	96	1	3	0
1980	97	1	0	2	97	1	2	0
1981	86	11	0	3	87	10	3	0
1982	94	3	0	2	91	4	4	0
1983	86	4	0	9	87	3	9	1
1984	91	3	1	5	91	5	3	0
Matagorda								
1974-75	52	48	0	0	32	52	16	0
1976	50	39	1	10				
1977	45	30	1	24				
1978	37	35	0	28				
1979	42	30	0	28	43	24	32	0
1980	42	30	0	28	36	26	37	1
1981	55	25	0	20	43	30	26	1
1982	47	28	0	26	44	30	24	2
1983	31	30	0	40	32	30	37	1
1984	46	26	1	28	45	23	31	2
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				
1979	45	24	1	30	41	29	30	0
1980	48	30	0	22	49	19	29	3
1981	47	24	0	29	55	23	20	1
1982	50	32	0	19	51	30	16	3
1983	32	30	1	37	42	20	35	4
1984	34	32	1	33	45	32	21	1

Table D.24. (Cont'd.).

Bay system ^a Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-adjacent coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Other states/countries
Arkansas								
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				
1979	38	14	2	46	29	0	71	0
1980	31	13	3	53	28	4	47	21
1981	22	19	5	54	28	7	44	21
1982	27	15	4	54	25	10	57	7
1983	10	29	5	56	10	16	56	18
1984	18	27	9	46	18	20	51	12
Corpus Christi								
1974-75	91	2	2	5	76	0	24	0
1976	71	4	2	23				
1977	74	4	1	20				
1978	70	4	3	23				
1979	59	5	4	31	26	0	63	11
1980	67	1	3	29	22	2	39	38
1981	72	3	2	22	49	3	35	13
1982	64	6	3	27	42	4	43	10
1983	59	6	1	35	43	6	35	16
1984	57	9	2	32	43	5	36	16
Upper Laguna Madre								
1974-75	84	1	0	15	61	3	31	5
1976	64	8	0	27				
1977	76	5	1	18				
1978	56	8	0	36				
1979	61	9	2	28	88	0	12	0
1980	59	9	1	31	68	13	15	4
1981	72	8	0	20	63	13	22	3
1982	75	7	0	18	65	10	25	0
1983	66	7	1	26	62	9	27	3
1984	72	6	1	20	63	9	24	3

Table D.24. (Cont'd.).

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

^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 in Texas bay and passes during the low-use season by bay system and day type (1974-1985). Blank = no fishermen interviewed.

Bay system ^a Year	Weekend				Weekday			
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Non-adjacent coastal counties	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Other states/countries
Galveston								
1974-76	97	0	1	2	96	0	4	0
1976-77	96	2	0	2				
1977-78	95	3	0	2				
1978-79	95	1	1	3				
1979-80	99	0	0	1	100	0	0	0
1980-81	100	0	0	0	99	0	1	0
1981-82	90	1	0	9	94	0	6	0
1982-83	100	0	0	0	99	0	1	0
1983-84	100	0	0	0	88	0	12	0
1984-85	94	0	1	5	96	0	4	0
Matagorda								
1974-76	40	49	0	11	40	30	30	0
1976-77	48	38	0	15				
1977-78	34	39	0	27				
1978-79	34	30	0	36				
1979-80	44	27	0	29	51	13	36	0
1980-81	62	18	0	19	66	17	17	0
1981-82	63	18	0	19	47	14	39	0
1982-83	59	22	0	19	55	24	22	0
1983-84	35	24	1	40	44	16	38	2
1984-85	54	25	1	20	53	36	10	1
San Antonio								
1974-76	41	33	0	26	50	29	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	28	0
1980-81	46	29	0	26	28	28	43	0
1981-82	45	32	1	22	51	23	23	4
1982-83	47	27	0	25	51	26	22	1
1983-84	56	17	0	27	38	1	61	0
1984-85	55	27	0	18	72	15	13	0

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
Aransas								
1974-76	26	9	28	37	23	2	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	39	36
1980-81	47	3	17	33	13	6	24	58
1981-82	53	16	8	23	26	6	26	43
1982-83	36	31	4	30	23	4	16	57
1983-84	50	21	0	29	14	32	33	21
1984-85	16	20	19	45	20	6	16	58
Corpus Christi								
1974-76	67	5	13	15	68	0	13	19
1976-77	60	1	18	20				
1977-78	67	4	6	23				
1978-79	63	0	14	23				
1979-80	74	2	5	19	35	4	40	22
1980-81	84	1	4	11	57	0	13	31
1981-82	70	3	9	17	58	0	19	24
1982-83	60	4	9	27	59	1	24	16
1983-84	68	2	5	26	54	1	28	17
1984-85	72	4	2	22	54	2	17	27
Upper Laguna Madre								
1974-76	76	5	0	19	76	0	14	10
1976-77	71	8	3	18				
1977-78	67	5	3	25				
1978-79	68	5	1	26				
1979-80	77	4	2	17	79	3	8	10
1980-81	79	5	2	14	66	2	29	3
1981-82	75	12	3	10	69	4	14	14
1982-83	72	12	1	15	48	5	30	17
1983-84	75	3	0	22	61	4	20	15
1984-85	78	6	2	14	62	1	14	22

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	
Lower Laguna Madre									
1974-76	94	2	2	2	58	9	2	19	14
1976-77	80	3	5	12					
1977-78	78	2	15	5					
1978-79	88	1	7	3					
1979-80	91	0	3	6	32	8	14	12	48
1980-81	76	5	5	14	50	0	10	10	40
1981-82	89	1	7	3	65	1	10	10	24
1982-83	86	2	3	9	63	2	10	10	25
1983-84	70	4	22	5	44	3	26	26	28
1984-85	76	3	10	10	57	10	5	5	27
Coastwide									
1974-76	62	15	18	5	61	9	5	17	13
1976-77	64	10	18	8					
1977-78	61	14	22	3					
1978-79	64	11	22	4					
1979-80	64	11	22	2	53	10	2	25	12
1980-81	71	9	14	6	62	4	6	15	19
1981-82	70	12	15	3	53	10	3	19	18
1982-83	68	10	17	5	56	9	5	17	19
1983-84	65	10	24	2	49	8	2	29	13
1984-85	64	13	18	5	57	12	5	11	21

^aPrior 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 (1974-1985).

Bay system Year	Mean fishing-party size			Mean trip length		
	High-use season		Low-use season	High-use season		Low-use season
	Weekend	Weekday	Weekend	Weekend	Weekday	Annual
Galveston						
1974-76	2.7	2.2	2.6	2.3	2.5	2.5
1976-77	2.5		2.4		2.5	2.5
1977-78	2.6		2.7		2.6	2.6
1978-79	2.6		2.7		2.6	2.6
1979-80	2.7	2.5	2.9	1.9	2.7	2.7
1980-81	2.7	2.1	2.3	2.1	2.4	2.4
1981-82	2.7	2.3	2.3	2.2	2.4	2.4
1982-83	2.7	2.5	2.0	2.1	2.6	2.6
1983-84	2.6	2.3	2.6	1.7	2.4	2.4
1984-85	2.6	2.4	2.8	1.9	2.5	2.5
Matagorda						
1974-76	2.5	1.9	2.5	2.0	2.4	2.4
1976-77	2.9		2.6		2.8	2.8
1977-78	2.7		2.9		2.8	2.8
1978-79	3.0		2.8		3.0	3.0
1979-80	3.0	1.9	2.8	2.3	2.9	2.9
1980-81	2.9	2.4	2.5	2.1	2.7	2.7
1981-82	2.8	2.4	2.6	2.4	2.6	2.6
1982-83	2.8	2.5	2.7	2.5	2.7	2.7
1983-84	2.7	2.4	2.6	2.2	2.6	2.6
1984-85	3.0	2.4	2.9	2.1	2.7	2.7
San Antonio						
1974-76	2.6	2.5	2.5	2.1	2.5	2.5
1976-77	2.7		2.5		2.6	2.6
1977-78	2.7		2.7		2.7	2.7
1978-79	2.8		2.7		2.8	2.8
1979-80	2.7	2.1	2.8	2.5	2.7	2.7
1980-81	2.8	2.2	2.6	2.3	2.6	2.6
1981-82	2.6	2.4	2.5	2.2	2.5	2.5
1982-83	2.6	2.4	2.8	2.3	2.5	2.5
1983-84	2.7	2.3	2.6	2.4	2.5	2.5
1984-85	2.8	2.3	2.7	1.9	2.6	2.6

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			
Aransas											
1974-76	3.1	2.8	2.5	2.2	2.7	2.7	5.0	3.5	3.7	3.8	4.1
1976-77	2.7		2.8		2.7	2.7	5.8		4.7		5.4
1977-78	2.7		2.6		2.7	2.7	5.9		5.9		5.9
1978-79	2.9		2.6		2.8	2.8	5.4		5.7		5.5
1979-80	2.8	2.8	2.4	2.5	2.7	2.7	6.7	4.2	4.0	4.5	5.8
1980-81	2.7	2.2	2.4	2.0	2.4	2.4	5.5	4.6	4.1	5.0	5.0
1981-82	2.8	2.3	2.5	2.2	2.5	2.5	5.8	4.5	4.5	4.7	5.0
1982-83	2.7	2.5	2.5	2.3	2.5	2.5	5.9	5.2	6.5	4.0	5.4
1983-84	2.8	2.6	2.3	2.2	2.7	2.7	5.8	4.8	4.3	4.1	5.2
1984-85	2.6	2.3	2.6	2.0	2.5	2.5	4.8	4.6	4.9	3.8	4.6
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	5.2	4.3	4.4	4.3
1980-81	2.5	2.3	2.7	2.2	2.4	2.4	4.5	4.4	4.0	3.9	4.3
1981-82	2.5	2.3	2.6	2.2	2.4	2.4	4.6	4.5	4.0	4.2	4.5
1982-83	2.7	2.4	2.6	2.1	2.5	2.5	4.9	4.8	4.4	3.9	4.7
1983-84	2.8	2.4	2.8	2.1	2.6	2.6	4.8	4.7	3.2	4.0	4.6
1984-85	2.6	2.4	2.7	2.3	2.5	2.5	4.6	4.4	4.9	3.9	4.5
Upper Laguna Madre											
1974-76	2.6	2.4	2.5	2.1	2.5	2.5	3.7	4.2	10.3	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	4.6	7.0	5.0	6.7
1980-81	2.9	2.4	2.7	2.4	2.7	2.7	13.8	9.1	11.2	10.4	12.4
1981-82	2.9	2.5	2.7	2.3	2.7	2.7	13.5	10.2	8.5	6.9	11.5
1982-83	2.8	2.5	2.5	2.2	2.6	2.6	10.6	10.8	6.9	8.5	10.1
1983-84	2.7	2.5	2.8	2.1	2.6	2.6	10.9	11.3	8.1	7.0	10.9
1984-85	2.7	2.6	2.8	2.6	2.7	2.7	9.0	8.7	5.6	8.2	8.1

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

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 (1955-1985). FY 1958 was the first year a fishing license was required to fish in saltwater 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

^aResident, nonresident and temporary (5 and 14-days) nonresident licenses included in total.

Table E.2. Total number of sport oyster dredge licenses, sport shrimp trawl licenses, fish guide and boat registrations sold in Texas by fiscal year (1958-1985).

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

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 (1983-1985). 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		
1983-84																		
High use																		
WE	32	(7)	31	(28)	26	(11)	31	(37)	10	(0)	12	(0)	31	(10)	12	(0)	31	(108)
WD	63	(20)	62	(14)	45	(7)	64	(63)	22	(0)	24	(5)	64	(20)	24	(2)	66	(232)
Low use																		
WE	12	(0)	13	(0)	12	(0)	10	(0)	127	(100)	131	(35)	12	(0)	12	(0)	12	(17)
WD	24	(0)	23	(0)	21	(0)	22	(0)	129	(42)	104	(18)	24	(5)	24	(2)	24	(37)
Annual	131	(27)	129	(42)	104	(18)	127	(100)	131	(35)	133	(6)	133	(394)	133	(394)	133	(394)
1984-85																		
High use																		
WE	31	(0)	31	(4)	25	(3)	31	(13)	12	(3)	12	(0)	31	(35)	12	(0)	31	(83)
WD	65	(23)	65	(5)	46	(7)	65	(10)	22	(6)	23	(0)	66	(9)	24	(29)	66	(180)
Low use																		
WE	12	(0)	11	(0)	12	(0)	12	(3)	130	(32)	132	(44)	12	(0)	12	(0)	12	(42)
WD	24	(0)	24	(0)	24	(0)	22	(6)	107	(10)	107	(10)	24	(29)	24	(29)	24	(29)
Annual	132	(23)	131	(9)	107	(10)	130	(32)	132	(44)	133	(2)	133	(334)	133	(334)	133	(334)

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 (1983-1985).

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
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
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
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
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
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
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
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

^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 (1983-1985).

Species Year	Bay system										Coastwide ^a	
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower			
			Antonio	Laguna Madre			Laguna Madre	Laguna Madre				
Atlantic croaker												
1983-84	0.1 \pm 0.1	0.0	0.0	6.9 \pm 6.9	11.6 \pm 10.9	0.0	0.0	0.2 \pm 0.1	18.8 \pm 12.9			
1984-85	<.1 \pm <.1	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.1 \pm 0.1	0.2 \pm 0.1			
Black drum												
1983-84	<.1 \pm <.1	0.0	0.0	0.1 \pm 0.1	2.5 \pm 1.8	0.0	0.0	2.5 \pm 1.5	5.1 \pm 2.4			
1984-85	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1	0.1 \pm 0.1	0.2 \pm 0.2	0.0	0.0	0.5 \pm 0.4	0.8 \pm 0.5			
Gafftopsail catfish												
1983-84	0.0	0.3 \pm 0.3	0.0	0.0	2.5 \pm 2.3	0.0	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			
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	0.0	0.0	5.6 \pm 1.5	12.1 \pm 3.0			
1984-85	0.3 \pm 0.2	0.2 \pm 0.1	0.0	4.8 \pm 2.7	2.6 \pm 1.3	0.0	0.0	5.9 \pm 1.6	13.7 \pm 3.4			
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	0.0	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			
Sheepshead												
1983-84	0.0	0.0	0.0	0.4 \pm 0.4	1.8 \pm 1.3	0.0	0.0	0.6 \pm 0.3	2.8 \pm 1.3			
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3 \pm 0.2	0.3 \pm 0.2			
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	0.0	0.0	2.5 \pm 0.8	4.2 \pm 1.2			
1984-85	0.0	0.0	0.0	0.2 \pm 0.2	0.3 \pm 0.2	<.1 \pm <.1	<.1 \pm <.1	0.6 \pm 0.3	1.2 \pm 0.4			
Spotted seatrout												
1983-84	13.6 \pm 6.8	10.5 \pm 5.2	8.4 \pm 7.3	45.1 \pm 20.8	41.0 \pm 37.4	0.0	0.0	74.9 \pm 13.8	193.5 \pm 46.4			
1984-85	4.0 \pm 2.6	<.1 \pm <.1	0.4 \pm 0.4	0.7 \pm 0.4	2.6 \pm 1.3	0.0	0.0	42.2 \pm 12.9	50.0 \pm 13.2			
Other species												
1983-84	0.0	0.3	<.1	0.8	1.0	0.0	0.0	0.6	2.8			
1984-85	0.1	0.0	<.1	0.0	0.0	0.0	0.0	<.1	0.2			

Table F.3. (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								
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 ± <.1	49.6 ± 14.1	67.6 ± 15.0

^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 (1983-1984).

Species Year Day type	Bay system									
	Upper					Lower				
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Laguna Madre	Laguna Madre	Coastwide		
Atlantic croaker										
1983										
Weekend	0.0	0.0	0.0	6.9 \pm 6.9	11.6 \pm 10.9	0.0	0.0	0.0	0.2 \pm 0.1	18.5 \pm 12.9
Weekday	0.1 \pm 0.1	0.0	0.0	<.1 \pm <.1	0.0	0.0	0.0	0.0	0.2 \pm 0.1	0.3 \pm 0.2
1984										
Weekend	0.0	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.0	<.1 \pm <.1	0.1 \pm 0.1
Weekday	<.1 \pm <.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.1 \pm <.1	0.1 \pm 0.1
Black drum										
1983										
Weekend	0.0	0.0	0.0	0.1 \pm 0.1	0.0	0.0	0.0	0.0	0.1 \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	0.0	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	0.0	0.0	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	0.0	0.4 \pm 0.4	0.6 \pm 0.4
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
Weekday	0.0	0.0	0.0	0.0	2.2 \pm 2.2	0.0	0.0	0.0	<.1 \pm <.1	2.3 \pm 2.2
1984										
Weekend	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	0.0	0.0	0.0	0.0	0.1 \pm 0.1
Red drum										
1983										
Weekend	0.0	0.4 \pm 0.2	0.3 \pm 0.2	0.1 \pm 0.1	0.0	0.0	0.0	0.0	0.6 \pm 0.3	1.4 \pm 0.5
Weekday	0.2 \pm 0.2	2.2 \pm 1.8	0.2 \pm 0.2	1.3 \pm 1.0	1.8 \pm 1.5	0.0	0.0	0.0	4.0 \pm 1.2	9.7 \pm 2.8
1984										
Weekend	0.0	<.1 \pm <.1	0.0	2.1 \pm 1.7	2.1 \pm 1.3	0.0	0.0	0.0	1.0 \pm 0.4	5.2 \pm 2.2
Weekday	0.3 \pm 0.2	0.1 \pm 0.1	0.0	0.6 \pm 0.6	0.5 \pm 0.3	0.0	0.0	0.0	2.8 \pm 1.1	4.3 \pm 1.3

Table F.4. (Cont'd.)

Species Year	Bay system											Coastwide ^a
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower			
							Laguna Madre	Laguna Madre	Laguna Madre	Laguna Madre		
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	0.0	0.0	9.1 ± 7.0
Weekday	<.1 ± <.1	0.0	0.0	2.9 ± 1.9	7.5 ± 7.5	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	10.5 ± 7.7
1984												
Weekend	0.0	0.0	0.0	0.0	0.4 ± 0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4 ± 0.4
Weekday	<.1 ± <.1	<.1 ± <.1	0.5 ± 0.5	0.0	<.1 ± <.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6 ± 0.5
Sheepshead												
1983												
Weekend	0.0	0.0	0.0	0.4 ± 0.4	0.0	0.0	0.0	0.0	0.1 ± 0.1	0.0	0.0	0.5 ± 0.4
Weekday	0.0	0.0	0.0	0.0	1.8 ± 1.3	0.0	0.0	0.0	0.4 ± 0.2	0.0	0.0	2.2 ± 1.3
1984												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.2 ± 0.1	0.0	0.0	0.2 ± 0.1
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	0.0	0.0	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	0.0	0.0	3.1 ± 1.1
1984												
Weekend	0.0	0.0	0.0	<.1 ± <.1	0.1 ± 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2 ± 0.1
Weekday	0.0	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2	0.0	0.0	<.1 ± <.1	0.3 ± 0.2	0.0	0.0	0.7 ± 0.3
Spotted seatrout												
1983												
Weekend	7.2 ± 6.0	4.6 ± 2.5	0.7 ± 0.5	13.0 ± 7.6	0.1 ± 0.1	0.0	0.0	0.0	14.3 ± 3.8	0.0	0.0	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	0.0	0.0	135.4 ± 44.2
1984												
Weekend	0.0	<.1 ± <.1	0.0	0.1 ± 0.1	1.1 ± 0.6	0.0	0.0	0.0	8.7 ± 4.9	0.0	0.0	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	0.0	0.0	12.4 ± 4.2	0.0	0.0	19.0 ± 5.1

Table F.4. (Cont'd.)

Species Year	Bay system										Coastwide ^a			
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre							
Day type														
Other species														
1983														
Weekend	0.0	0.2	<.1	0.4	0.7	0.0	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	0.0	0.0	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	0.0	<.1		
Weekday	0.1	0.0	<.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2		
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	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	49.0 ±	10.3	167.3 ±	56.9
1984														
Weekend	0.0	0.1 ±	0.1	0.1	<.1	<.1	2.3 ±	1.7	4.0 ±	2.2	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	16.2 ±	5.4	25.7 ±	6.4

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

Table F.5. Estimated landings of fishes (No. X 1000) \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 (1983-1985).

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
Atlantic croaker											
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
Weekday	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	0.1 \pm 0.1	0.1 \pm 0.1	0.1 \pm 0.1	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
Black drum											
1983-84											
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7 \pm 1.5	1.7 \pm 1.5	1.7 \pm 1.5	0.0
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5 \pm 0.4	0.5 \pm 0.4	0.5 \pm 0.4	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	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
Gafftopsail catfish											
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
Weekday	0.0	0.0	0.0	0.0	0.3 \pm 0.3	0.0	0.0	0.0	0.0	0.0	0.3 \pm 0.3
1984-85											
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	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	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	1.0 \pm 0.9	1.0 \pm 0.9	1.0 \pm 0.9	0.0
1984-85											
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7 \pm 0.4	0.7 \pm 0.4	0.7 \pm 0.4	0.0
Weekday	0.0	0.0	0.0	2.1 \pm 2.1	0.0	0.0	0.0	1.4 \pm 1.0	1.4 \pm 1.0	3.5 \pm 2.3	0.0

Table F.5. (Cont'd.)

Species Year	Bay system											Coastwide ^a
	Day type	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower		
				Antonio	Aransas			Laguna Madre	Laguna Madre			
Sand seatrout												
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	0.0	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
Sheepshead												
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	0.1 ±	0.1	0.1 ±	0.1
1984-85												
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 ±	0.1	0.1 ±	0.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.1 ±	0.1	0.1 ±	0.1
Weekday	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2 ±	0.2	0.2 ±	0.2
Spotted seatrout												
1983-84												
Weekend	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	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	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	12.2 ±	8.5	12.2 ±	8.5

Table F.5. (Cont'd.)

Species Year	Bay system										Coastwide ^a
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
Other species											
1983-84											
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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
1984-85											
Weekend	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<.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
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 ±	2.1	0.0	0.0	13.9 ±	9.5	16.0 ±	9.7

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

Table F.6. (Cont'd.)

Species Year	Bay system							
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide
All species combined ^a								
1983-84	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

^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 (1983-1984). Blank = no fishermen interviewed.

Species	Year	Day type	Bay system														
			Galveston		Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide
Atlantic croaker																	
1983																	
		Weekend	0.00	0.00	0.00	0.53 \pm 0.53	2.53 \pm 2.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
1984																	
		Weekend	0.00	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01
		Weekday	<.01 \pm <.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
Black drum																	
1983																	
		Weekend	0.00	0.00	0.00	<.01 \pm <.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 \pm 0.01
		Weekday	<.01 \pm <.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01
1984																	
		Weekend	0.00	0.04 \pm 0.04	0.07 \pm 0.07	0.00	0.01 \pm 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 \pm 0.01
		Weekday	<.01 \pm <.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 \pm 0.01
Gafftopsail catfish																	
1983																	
		Weekend	0.00	0.03 \pm 0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 \pm 0.01
		Weekday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 \pm 0.01
1984																	
		Weekend	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Weekday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<.01 \pm <.01
Red drum																	
1983																	
		Weekend	0.00	0.03 \pm 0.02	0.24 \pm 0.19	0.01 \pm 0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 \pm 0.02
		Weekday	0.01 \pm 0.01	0.24 \pm 0.21	0.02 \pm 0.02	0.05 \pm 0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09 \pm 0.03
1984																	
		Weekend	0.00	0.31 \pm 0.31	0.00	0.60 \pm 0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07 \pm 0.04
		Weekday	0.03 \pm 0.03	0.18 \pm 0.17	0.00	0.06 \pm 0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09 \pm 0.05

Table F.7. (Cont'd.)

Species Year	Bay system										
	Day type	San			Aransas	Corpus Christi	Upper		Lower		Coastwide
		Galveston	Matagorda	Antonio			Laguna Madre	Laguna Madre			
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	
Weekday	<.01 ± <.01	0.00	0.00	0.12 ± 0.08	0.14 ± 0.14	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	0.07 ± 0.05	
1984											
Weekend	0.00	0.00	0.00	0.00	0.02 ± 0.02	0.00	0.00	0.00	0.00	0.01 ± 0.01	
Weekday	<.01 ± <.01	0.01 ± 0.01	0.97 ± 0.97	0.00	<.01 ± <.01	0.00	0.00	0.00	0.00	0.01 ± 0.01	
Sheepshead											
1983											
Weekend	0.00	0.00	0.00	0.03 ± 0.03	0.00	0.00	0.00	0.00	0.01 ± 0.01	0.01 ± 0.01	
Weekday	0.00	0.00	0.00	0.00	0.03 ± 0.03	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	
1984											
Weekend	0.00	0.00	0.00	0.00	0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01	
Weekday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01 ± 0.01	<.01 ± <.01	
Southern flounder											
1983											
Weekend	0.00	0.01 ± 0.01	0.06 ± 0.06	0.00	0.00	0.00	0.00	0.00	0.06 ± 0.03	0.02 ± 0.01	
Weekday	0.01 ± 0.01	<.01 ± <.01	0.00	0.01 ± 0.01	0.02 ± 0.02	0.04 ± 0.02	0.04 ± 0.02	0.04 ± 0.02	0.04 ± 0.02	0.02 ± 0.01	
1984											
Weekend	0.00	0.00	0.00	0.01 ± 0.01	0.01 ± <.01	0.01 ± <.01	0.06 ± 0.06	0.00	0.01 ± 0.01	<.01 ± <.01	
Weekday	0.00	0.00	0.00	0.02 ± 0.02	0.05 ± 0.05	0.05 ± 0.05	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 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	0.00	0.00	0.00	1.02 ± 0.37	0.77 ± 0.26	
Weekday	0.44 ± 0.33	0.64 ± 0.56	1.07 ± 1.03	1.26 ± 0.88	0.79 ± 0.77	0.94 ± 0.31	0.94 ± 0.31	0.94 ± 0.31	0.94 ± 0.31	0.88 ± 0.39	
1984											
Weekend	0.00	0.23 ± 0.23	0.00	0.03 ± 0.03	0.06 ± 0.04	0.67 ± 0.43	0.67 ± 0.43	0.67 ± 0.43	0.67 ± 0.43	0.28 ± 0.16	
Weekday	0.39 ± 0.30	0.00	0.84 ± 0.84	0.07 ± 0.06	0.39 ± 0.37	0.42 ± 0.19	0.42 ± 0.19	0.42 ± 0.19	0.42 ± 0.19	0.35 ± 0.13	

Table F.7. (Cont'd.)

Species Year	Bay system																
	Galveston			Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Coastwide	
	Day type					Antonio				Christi	Madre	Laguna	Madre	Madre	Coastwide		
Other species																	
1983																	
Weekend	0.00	0.02	0.01	0.03	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	
Weekday	0.00	<.01	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	<.01	0.01	0.01	0.01	
1984																	
Weekend	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Weekday	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<.01	<.01
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	0.89 ± 0.69	1.63 ± 1.08	1.63 ± 1.08	1.63 ± 1.08	3.14 ± 2.78	0.89 ± 0.69	1.63 ± 1.08	1.63 ± 1.08	1.63 ± 1.08	1.39 ± 0.47	1.39 ± 0.47	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	1.09 ± 1.05	1.46 ± 0.97	1.46 ± 0.97	1.46 ± 0.97	1.12 ± 1.08	1.09 ± 1.05	1.46 ± 0.97	1.46 ± 0.97	1.46 ± 0.97	1.09 ± 0.49	1.09 ± 0.49	1.09 ± 0.49
1984																	
Weekend	0.00	0.58 ± 0.58	0.15 ± 0.15	0.64 ± 0.57	0.22 ± 0.16	0.15 ± 0.15	0.64 ± 0.57	0.64 ± 0.57	0.64 ± 0.57	0.22 ± 0.16	0.15 ± 0.15	0.64 ± 0.57	0.64 ± 0.57	0.64 ± 0.57	0.46 ± 0.21	0.46 ± 0.21	0.46 ± 0.21
Weekday	0.44 ± 0.34	0.19 ± 0.18	1.87 ± 1.87	0.18 ± 0.16	0.57 ± 0.53	1.87 ± 1.87	0.18 ± 0.16	0.18 ± 0.16	0.18 ± 0.16	0.57 ± 0.53	1.87 ± 1.87	0.18 ± 0.16	0.18 ± 0.16	0.18 ± 0.16	0.47 ± 0.16	0.47 ± 0.16	0.47 ± 0.16

^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 (1983-1985). Blank = no fishermen interviewed.

Species	Year	Day type	Bay system							
			Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Coastwide
								Laguna	Madre	
Atlantic croaker										
1983-84										
		Weekend							0.00	0.00
		Weekday							0.00	0.00
1984-85										
		Weekend			0.00				<.01 \pm <.01	<.01 \pm <.01
		Weekday			0.00				0.00	0.00
Black drum										
1983-84										
		Weekend							0.16 \pm 0.15	0.16 \pm 0.15
		Weekday							0.02 \pm 0.02	0.01 \pm 0.01
1984-85										
		Weekend							0.00	0.00
		Weekday							0.00	0.00
Gafftopsail catfish										
1983-84										
		Weekend							0.00	0.00
		Weekday							0.00	0.00
1984-85										
		Weekend						0.05 \pm 0.05	0.00	0.01 \pm 0.01
		Weekday							0.00	0.00
Red drum										
1983-84										
		Weekend							0.00	0.00
		Weekday							0.04 \pm 0.03	0.03 \pm 0.03
1984-85										
		Weekend							0.04 \pm 0.03	0.04 \pm 0.03
		Weekday							0.08 \pm 0.07	0.16 \pm 0.13
					0.48 \pm 0.48					

Table F.8. (Cont'd.)

Species Year	Bay system									
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
Sand seatrout										
1983-84										
Weekend							0.00		0.00	0.00
Weekday						0.00			0.00	0.00
1984-85										
Weekend				0.00					0.00	0.00
Weekday				0.00					0.00	0.00
Sheepshead										
1983-84										
Weekend							0.00		0.00	0.00
Weekday						0.00	<.01 ± <.01		<.01 ± <.01	<.01 ± <.01
1984-85										
Weekend				0.00			0.01 ± <.01		0.01 ± <.01	0.01 ± <.01
Weekday				0.00			0.00		0.00	0.00
Southern flounder										
1983-84										
Weekend							0.00		0.00	0.00
Weekday							0.00		0.00	0.00
1984-85										
Weekend				0.00			<.01 ± <.01		<.01 ± <.01	<.01 ± <.01
Weekday				0.00			0.01 ± 0.01		0.01 ± 0.01	0.01 ± 0.01
Spotted seatrout										
1983-84										
Weekend							1.07 ± 0.89		1.07 ± 0.89	1.07 ± 0.89
Weekday							0.26 ± 0.21		0.26 ± 0.21	0.21 ± 0.16
1984-85										
Weekend				0.00			0.56 ± 0.50		0.56 ± 0.50	0.53 ± 0.47
Weekday				0.00			0.72 ± 0.60		0.72 ± 0.60	0.57 ± 0.46

Table F.8. (Cont'd.)

Species Year	Bay system										Coastwide
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		
							Laguna	Madre	Laguna	Madre	
Other species											
1983-84											
Weekend									0.04		0.04
Weekday					0.00		0.00		0.00		0.00
1984-85											
Weekend					0.00				<.01		<.01
Weekday					0.00				0.00		0.00
All species combined^a											
1983-84											
Weekend									1.27 ± 0.99		1.27 ± 0.99
Weekday					0.05 ± 0.05		0.00		0.31 ± 0.26		0.27 ± 0.20
1984-85											
Weekend									0.62 ± 0.54		0.59 ± 0.51
Weekday					0.48 ± 0.48				0.82 ± 0.68		0.75 ± 0.56

^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 (1979-1984)^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
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
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
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
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
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

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

Bay system Year	Spotted seatrout	Other	Total
Lower Laguna Madre			
1979 (10)	1.26 ± 0.29	0.04 ± 0.02	1.31 ± 0.28
1981 (24)	1.78 ± 0.23	0.05 ± 0.01	1.83 ± 0.22
1982 (39)	2.04 ± 0.23	0.11 ± 0.04	2.14 ± 0.23
1983 (48)	0.76 ± 0.32	0.12	0.88 ± 0.35
1984 (46)	0.61 ± 0.31	0.08	0.68 ± 0.34
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

^a1979-1982 data from McEachron (1984).

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

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

^dFor 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 (1983-1985). Blank = no fish weighed.

Species Year	Bay system											
	Galveston		Matagorda		San Antonio		Aransas		Upper		Lower	
	Day type	Day type	Day type	Day type	Day type	Day type	Day type	Day type	Day type	Day type	Day type	Day type
Atlantic croaker												
1983-84	0.24						0.46 \pm <.01		0.30 \pm 0.02		0.40 \pm 0.02	0.36 \pm 0.01
1984-85	0.14							0.31			0.42 \pm 0.08	0.33 \pm 0.17
Black drum												
1983-84	1.21						1.03		0.80 \pm 0.80		2.05 \pm 0.21	1.41 \pm 0.52
1984-85	2.53	1.07		1.11			1.11		1.79		2.01 \pm 0.03	1.84 \pm 0.74
Gafftopsail catfish												
1983-84		0.70					0.72		1.76 \pm 0.01		3.60	1.65 \pm 0.09
1984-85									0.67			0.72
Red drum												
1983-84	0.84	1.44 \pm 0.19		1.59 \pm 0.22			1.31 \pm 0.18		1.22 \pm 0.51		1.44 \pm 0.12	1.39 \pm 0.21
1984-85	2.99 \pm 0.30	2.17 \pm 0.27					2.24 \pm 0.57		2.52 \pm 0.31		2.12 \pm 0.09	2.26 \pm 0.31
Sand seatrout												
1983-84	0.47	0.27		0.26			0.23 \pm 0.02		0.34 \pm 0.01		0.23	0.30 \pm 0.10
1984-85	0.23	0.41							0.32 \pm 0.03			0.31 \pm 0.06
Sheepshead												
1983-84							0.68		0.96 \pm 0.17		0.62 \pm 0.08	0.85 \pm 0.22
1984-85											0.97 \pm 0.20	0.97 \pm 0.20
Southern flounder												
1983-84	0.45 \pm 0.16						0.32 \pm 0.10		0.55 \pm 0.06		0.72 \pm 0.05	0.64 \pm 0.06
1984-85							0.62 \pm 0.08		1.55		0.57 \pm 0.08	0.84 \pm 0.47
Spotted seatrout												
1983-84	1.06 \pm 0.18	0.45 \pm 0.02		0.45 \pm 0.04			0.45 \pm 0.03		0.75 \pm 0.20		0.79 \pm 0.07	0.69 \pm 0.09
1984-85	0.92 \pm 0.01	1.19					0.66 \pm 0.07		0.91 \pm 0.16		0.63 \pm 0.03	0.67 \pm 0.03
All species combined ^a												
1983-84	0.93 \pm 0.16	0.45 \pm 0.08		0.47 \pm 0.14			0.48 \pm 0.08		0.60 \pm 0.12		0.78 \pm 0.06	0.63 \pm 0.09
1984-85	1.27 \pm 0.27	1.52 \pm 0.21		1.10 \pm 1.10			1.76 \pm 0.55		1.42 \pm 0.23		0.90 \pm 0.09	1.05 \pm 0.17

^a Includes "other" species

Table F.11. Mean weights of fishes (kg/fish) \pm 1 SE caught by party-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1984). Blank = no fish weighed.

Species	Year	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			0.36 \pm 0.19
	Weekday	0.24			0.40				0.34 \pm 0.14
1984	Weekend						0.31		0.31
	Weekday	0.14						0.33	0.22 \pm 0.22
Black drum									
1983	Weekend				1.03			0.21	0.43 \pm 0.43
	Weekday	1.21				0.80		1.97 \pm 0.41	0.88 \pm 0.78
1984	Weekend		1.07	1.11		1.79		1.88	1.77 \pm 1.77
	Weekday	2.53			1.11			2.02	1.87 \pm 0.32
Gafftopsail catfish									
1983	Weekend		0.70						0.70
	Weekday					1.75		3.60	1.76 \pm 1.76
1984	Weekend						0.67		0.72 \pm 0.72
	Weekday				0.72				
Red drum									
1983	Weekend		1.10	1.70 \pm 0.15	1.90 \pm 0.19				1.24 \pm 0.37
	Weekday	0.84	1.54 \pm 0.18	0.78	1.28 \pm 0.21	1.22 \pm 0.51			0.76 \pm 0.09
1984	Weekend		2.41						1.41 \pm 0.25
	Weekday	2.99 \pm 0.30	1.51 \pm 0.32	1.41	3.27	2.30 \pm 0.48			1.97 \pm 0.08
						2.88			2.21 \pm 0.08
									2.46 \pm 0.84

Table F.11. (Cont'd.)

Species Year	Bay system									
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower	
							Laguna Madre	Laguna Madre		
Sand seatrout										
1983										
Weekend		0.27	0.26	0.44	0.36 ± 0.02					0.29 ± 0.22
Weekday	0.47			0.22 ± 0.01	0.33			0.23		0.30 ± 0.24
1984										
Weekend					0.30					0.30
Weekday	0.23	0.41			0.40					0.30 ± 0.30
Sheepshead										
1983										
Weekend				0.68	0.96 ± 0.17			1.04		0.77 ± 0.77
Weekday								0.59 ± 0.06		0.90 ± 0.15
1984										
Weekend								1.62		1.62
Weekday								0.80 ± 0.09		0.80 ± 0.09
Southern flounder										
1983										
Weekend								0.72 ± 0.09		0.72 ± 0.09
Weekday	0.45 ± 0.16			0.32 ± 0.10	0.55 ± 0.06			0.73 ± 0.06		0.62 ± 0.07
1984										
Weekend				0.73	1.55			0.57 ± 0.08		1.35 ± 1.35
Weekday				0.56						0.57 ± 0.29
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

Table F.11. (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	0.74 ± 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			

^aIncludes "other" species.

Table F.12. Mean weights of fishes (kg/fish) \pm 1 SE caught by party-boat fishermen in Texas bays and passes during the low-use season by species, day type and bay system (1983-1985). Blank = no fish weighed.

Species Year Day type	Bay system						
	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre
Atlantic croaker							
1983-84							
Weekend							
Weekday							
1984-85							
Weekend						0.50	0.50
Weekday							
Black drum							
1983-84							
Weekend						2.30 \pm 0.02	2.30 \pm 0.02
Weekday						1.62 \pm 0.38	1.62 \pm 0.38
1984-85							
Weekend							
Weekday							
Gafftopsail catfish							
1983-84							
Weekend							
Weekday					1.77		1.77
1984-85							
Weekend							
Weekday							
Red drum							
1983-84							
Weekend						1.52 \pm 0.17	1.52 \pm 0.17
Weekday							
1984-85							
Weekend						1.61 \pm 0.78	1.61 \pm 0.78
Weekday						2.06 \pm 0.85	2.50 \pm 2.00
				2.82			

Table F.12. (Cont'd.)

Species Year	Bay system							Coastwide
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	
Sand seatrout								
1983-84								
Weekend								
Weekday								
1984-85								
Weekend								
Weekday								
Sheepshead								
1983-84								
Weekend								0.44
Weekday								
1984-85								
Weekend								0.82 ± 0.46
Weekday								0.82 ± 0.46
Southern flounder								
1983-84								
Weekend								
Weekday								
1984-85								
Weekend								
Weekday								0.50
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

Table F.12. (Cont'd.)

Species Year	Bay system										
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower		
							Laguna	Madre	Laguna	Madre	Coastwide
All species combined ^a											
1983-84											
Weekend									1.18 ± 0.13		1.18 ± 0.13
Weekday						1.70 ± 1.70			0.83 ± 0.03		0.86 ± 0.09
1984-85											
Weekend					2.80 ± 2.80				0.67 ± 0.07		0.67 ± 0.07
Weekday									1.00 ± 0.33		1.23 ± 0.65

^aIncludes "other" species.

Table F.13. Annual mean total lengths of fishes (mm/fish) ± 1 SE caught by party-boat fishermen in Texas bays and passes by species and bay system (1983-1985). Blank = no fish measured.

Species Year	Bay system										Coastwide		
	Galveston	Matagorda	San		Aransas	Corpus Christi	Upper		Lower				
			Antonio	Antonio			Laguna Madre	Laguna Madre					
Atlantic croaker													
1983-84	265				326 ± 1						281 ± 7	310 ± 8	298 ± 20
1984-85	226										287	315 ± 20	289 ± 102
Black drum													
1983-84	442				419						375	516 ± 23	445 ± 137
1984-85	565	425	429		430						503	511 ± 1	499 ± 139
Gafftopsail catfish													
1983-84		424									566 ± 1	710	551 ± 50
1984-85					430						420		429 ± 376
Red drum													
1983-84	430	502 ± 16	520 ± 25		486 ± 18						476 ± 70	501 ± 13	495 ± 20
1984-85	647 ± 19	581 ± 26			583 ± 51						609 ± 27	570 ± 8	584 ± 19
Sand seatrout													
1983-84	352	293	290		278 ± 6						315 ± 4	281	301 ± 107
1984-85	281	336									309 ± 9		308 ± 22
Sheepshead													
1983-84					337						376 ± 20		359 ± 52
1984-85													374 ± 26
Southern flounder													
1983-84	336 ± 40				300 ± 35						361 ± 13	390 ± 8	375 ± 8
1984-85					374 ± 16						506	363 ± 16	404 ± 97
Spotted seatrout													
1983-84	474 ± 24	364 ± 4	362 ± 11		359 ± 8						410 ± 34	421 ± 11	402 ± 11
1984-85	450 ± 4	499			412 ± 14						451 ± 26	401 ± 4	408 ± 3
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

^a Includes "other" species

Table F.14. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by party-boat fishermen in Texas bays and passes during the high-use season by species, day type and bay system (1983-1984). Blank = no fish measured.

Species Year	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								
Weekend					287			287
Weekday	226						295	255 \pm 180
Black drum								
1983								
Weekend				419			245	292 \pm 169
Weekday	442				375		515 \pm 34	385 \pm 331
1984								
Weekend			425		503		512	483 \pm 452
Weekday	565		429	430			511 \pm 0	501 \pm 57
Gafftopsail catfish								
1983								
Weekend								424
Weekday		424			565		710	568
1984								
Weekend				430	420			429 \pm 376
Weekday								
Red drum								
1983								
Weekend		469	532 \pm 16	562 \pm 19			446 \pm 12	479 \pm 92
Weekday	430	512 \pm 14	420	482 \pm 22	476 \pm 70		509 \pm 15	496 \pm 29
1984								
Weekend		605		509	592 \pm 42		561 \pm 8	553 \pm 194
Weekday	647 \pm 19	517 \pm 38	663	663	639		578 \pm 8	600 \pm 101

Table F.14. (Cont'd)

Species Year	Bay system										
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	Coastwide		
Sand seatrout											
1983											
Weekend		293		290	344	320 ± 4					300 ± 189
Weekday	352				275 ± 5	309		281			299 ± 223
1984											
Weekend						304					304
Weekday	281		336			335					302 ± 244
Sheepshead											
1983											
Weekend					337						
Weekday						376 ± 20		392			351 ± 278
1984											
Weekend									458		458
Weekday									356 ± 14		356 ± 14
Southern flounder											
1983											
Weekend											
Weekday	336 ± 40								390 ± 15		480 ± 15
1984											
Weekend					300 ± 35	361 ± 13			390 ± 9		369 ± 10
Weekday					398						
					363				364 ± 18		470 ± 273
											363 ± 105
Spotted seatrout											
1983											
Weekend	435 ± 11	362 ± 3		343							
Weekday	504 ± 24	376 ± 4	374 ± 4			410 ± 34			425 ± 15		396 ± 15
1984											
Weekend		499		419							
Weekday	450 ± 4			406 ± 24		480 ± 23			392 ± 7		403 ± 8
						418 ± 14			397 ± 6		410 ± 4

Table F.14. (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									
Weekend	435 ± 11	438 ± 58	382 ± 50	361 ± 21	286 ± 6	422 ± 14	422 ± 14	381 ± 18	
Weekday	468 ± 31	420 ± 23	375 ± 6	364 ± 18	401 ± 22	412 ± 12	412 ± 12	398 ± 14	
1984									
Weekend		542	368	478	506 ± 41	430 ± 22	430 ± 22	457 ± 59	
Weekday	478 ± 31	444 ± 6		453 ± 84	484 ± 66	437 ± 12	437 ± 12	450 ± 15	

^a Includes "other" species

Table F.15. (Cont'd)

Species Year	Day type	Bay system							Coastwide
		Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre	
Sand seatrout									
1983-84									
Weekend									
Weekday									
1984-85									
Weekend									
Weekday									
Sheepshead									
1983-84								290	290
Weekend									
Weekday									
1984-85									
Weekend								346 ± 77	346 ± 77
Weekday									
Southern flounder									
1983-84									
Weekend									
Weekday									
1984-85									
Weekend									
Weekday								353	353
Spotted seatrout									
1983-84									
Weekend								465 ± 10	465 ± 10
Weekday								414 ± 14	414 ± 14
1984-85									
Weekend								411 ± 4	411 ± 4
Weekday								428 ± 20	428 ± 20

Table F.15. (Cont'd)

Species Year	Bay system									
	Day type	Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper		Lower	
							Laguna Madre	Laguna Madre		Coastwide
All species combined ^a										
1983-84										
Weekend								474 ± 6	474 ± 6	
Weekday					569			428 ± 6	432 ± 14	
1984-85										
Weekend					636			411 ± 8	411 ± 8	
Weekday								456 ± 36	480 ± 4	

^aIncludes "other" species

Table F.16. Percent composition of "other" species caught by party-boat fishermen in Texas bays and passes by bay system, season and day type (1983 - 1985).

Year Season Day type	Common name	Scientific name	Bay system							Coastwide	
			Galveston	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
1983-84											
High use											
Weekend	Bluntnose jack	<u>Hemicarax amblyrhynchus</u>					33.33				15.38
	Crevalle jack	<u>Caranx hippos</u>					16.67				7.69
	Gray triggerfish	<u>Balistes capriscus</u>					16.67				7.69
	Ladyfish	<u>Elops saurus</u>					16.67				7.69
	Seabasses sp.										
	Warsaw	<u>Epinephelus nigritus</u>			33.33						7.69
	Sharks sp.										
	Blacktip shark	<u>Carcharhinus limbatus</u>			33.33						7.69
	Snapper sp.										
	Lane snapper	<u>Lutjanus synagris</u>			33.33						7.69
	Spot	<u>Leiostomus xanthurus</u>					16.67				7.69
	Tripletail	<u>Lobotes surinamensis</u>		100.00							30.77
Weekday	Gulf flounder	<u>Parlichthys albigutta</u>					100.00				13.33
	Southern kingfish	<u>Menticirrhus americanus</u>		100.00			100.00				86.67
Low use											
Weekend	Ladyfish	<u>Elops saurus</u>								100.00	100.00
1984-85											
High use											
Weekend	Southern kingfish	<u>Menticirrhus americanus</u>			100.00						100.00
Weekday	Crevalle jack	<u>Caranx hippos</u>		100.00							33.33
	Southern kingfish	<u>Menticirrhus americanus</u>			100.00						66.67
Low use											
Weekend	Pigfish	<u>Orthopristis chrysoptera</u>								100.00	100.00

Table F.17. Percent composition of the annual residential origin of party-boat fishermen in Texas bays and passes by bay system (1983-85).

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

Table F.18. Percent composition of the residential origin of party-boat fishermen in Texas bays and passes during the high-use season by bay system and day type (1983-1984). Blank = no fishermen interviewed.

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
Galveston								
1983	100	0	0	0	80	0	20	0
1984					100	0	0	0
Matagorda								
1983	21	64	14	0	50	14	36	0
1984	0	100	0	0	20	0	0	80
San Antonio								
1983	36	18	45	0	14	86	0	0
1984	0	0	100	0	0	100	0	0
Aransas								
1983	1	24	74	0	14	30	51	5
1984	23	0	77	0	0	60	10	30
Corpus Christi								
1983	0	20	80	0	10	5	85	0
1984	20	0	80	0	11	0	89	0
Upper Laguna Madre								
1983	50	0	50	0	50	0	0	50
1984								
Lower Laguna Madre								
1983	18	33	47	2	24	21	47	9
1984	42	18	39	1	28	25	34	13
Coastwide								
1983	19	33	48	1	25	21	47	6
1984	33	14	53	1	33	25	30	13

Table F.19. Percent composition of the residential origin of party-boat fishermen in Texas bays and passes during the low-use season by bay system and day type (1983-1985). Blank = no fishermen interviewed.

Bay system Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galveston						
1983-84						
1984-85						
Matagorda						
1983-84						
1984-85						
San Antonio						
1983-84						
1984-85						
Aransas						
1983-84						
1984-85	33	0	0	33	0	0
Corpus Christi						
1983-84						
1984-85				60	0	0
Upper Laguna Madre						
1983-84						
1984-85				0	0	0
Lower Laguna Madre						
1983-84						
1984-85				14	0	51
Coastwide						
1983-84				18	0	43
1984-85				34	11	9

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 (1983-1985). 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
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
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
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
Corpus Christi									
1983-84	2.5	3.3			5.9	7.8			6.7
1984-85	3.9	3.0			5.9	6.8			6.2
Upper Laguna Madre									
1983-84	4.0				2.0				2.0
1984-85		2.0				8.0			8.0
Lower Laguna Madre									
1983-84	3.4	3.2	3.4	2.8	7.4	6.2	5.6	4.0	6.2
1984-85	3.5	3.8	3.8	3.2	5.4	5.6	5.1	5.3	5.5
Coastwide									
1983-84	3.5	3.4	3.4	2.9	6.7	6.1	5.6	3.8	6.1
1984-85	3.5	3.6	3.8	3.2	5.5	5.9	5.0	5.3	5.7

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

Table C.1. Number of days surveyed and number of headboat fishermen interviewed () in Texas bays and passes by season, day type and area (1983-1985). WE = weekend days. WD = weekdays.

Year Season Day Type	Area			
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
1983-84				
High use				
WE	8 (315)	7 (321)	6 (152)	21 (788)
WD	10 (413)	13 (217)	14 (185)	37 (815)
Low use				
WE	6 (99)	7 (174)	6 (88)	19 (361)
WD	14 (206)	13 (136)	14 (153)	41 (495)
Annual	38(1033)	40 (848)	40 (578)	118(2459)
1984-85				
High use				
WE	7 (332)	7 (206)	7 (116)	21 (654)
WD	14 (492)	13 (211)	14 (250)	41 (953)
Low use				
WE	7 (329)	7 (172)	7 (67)	21 (568)
WD	13 (258)	14 (161)	14 (166)	41 (585)
Annual	41(1411)	41 (750)	42 (599)	124(2760)

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 (1983-1985).

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
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
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
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

^aDue 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 (1983-1985).

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
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
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
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
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
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
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
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
Other species				
1983-84	12.1	3.4	6.5	22.0
1984-85	3.1	1.5	4.7	9.3
All species combined ^a				
1983-84	64.6 \pm 17.9	50.2 \pm 8.9	16.6 \pm 3.8	131.3 \pm 20.4
1984-85	40.6 \pm 13.6	8.7 \pm 2.1	25.3 \pm 5.4	74.6 \pm 14.7

^aDue 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 (1983-1984).

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
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
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
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
Sand seatrout						
1983						
		Weekend	6.0 \pm 2.5	25.6 \pm 7.3	4.1 \pm 1.7	35.7 \pm 7.9
		Weekday	19.6 \pm 10.2	12.8 \pm 4.0	3.9 \pm 1.7	36.3 \pm 11.1
1984						
		Weekend	10.2 \pm 7.4	2.8 \pm 1.6	3.6 \pm 2.1	16.6 \pm 7.8
		Weekday	13.3 \pm 7.4	2.7 \pm 1.1	12.8 \pm 3.7	28.8 \pm 8.4
Sheepshead						
1983						
		Weekend	<.1 \pm <.1	0.0	0.1 \pm 0.1	0.1 \pm 0.1
		Weekday	<.1 \pm <.1	0.0	0.1 \pm 0.1	0.1 \pm 0.1

Table G.4. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Sheepshead (Cont'd.)				
1984				
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
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
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
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

^aDue 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 (1983-1985).

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year				
Day type				
Atlantic croaker				
1983-84				
Weekend	1.0 \pm 0.6	0.0	0.0	1.0 \pm 0.6
Weekday	0.1 \pm <.1	0.0	0.1 \pm 0.1	0.1 \pm 0.1
1984-85				
Weekend	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
Weekday	0.3 \pm 0.3	<.1 \pm <.1	<.1 \pm <.1	0.4 \pm 0.3
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
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
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
Sand seatrout				
1983-84				
Weekend	1.1 \pm 1.1	1.7 \pm 1.7	<.1 \pm <.1	2.8 \pm 2.0
Weekday	0.0	0.3 \pm 0.3	0.7 \pm 0.4	1.1 \pm 0.5
1984-85				
Weekend	0.1 \pm 0.1	0.5 \pm 0.5	0.4 \pm 0.3	0.9 \pm 0.6
Weekday	0.1 \pm 0.1	<.1 \pm <.1	2.4 \pm 1.7	2.4 \pm 1.7
Sheepshead				
1983-84				
Weekend	0.1 \pm <.1	0.0	0.0	<.1 \pm <.1
Weekday	0.0	0.0	0.1 \pm 0.1	0.1 \pm 0.1

Table G.5. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Sheepshead (Cont'd.)				
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
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
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
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
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

^aDue 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 (1983-1985).

Species Year Day type	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
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
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
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
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
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
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
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
Other species				
1983-84	0.16	0.04	0.19	0.12
1984-85	0.05	0.03	0.16	0.07
All species combined ^a				
1983-84	0.88 \pm 0.33	0.62 \pm 0.16	0.48 \pm 0.13	0.70 \pm 0.14
1984-85	0.66 \pm 0.30	0.20 \pm 0.06	0.87 \pm 0.22	0.56 \pm 0.14

^aDue 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 (1983-1984).

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
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
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
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
Sand seatrout					
	1983				
	Weekend	0.19 \pm 0.11	0.63 \pm 0.25	0.40 \pm 0.20	0.43 \pm 0.14
	Weekday	0.62 \pm 0.37	0.47 \pm 0.21	0.22 \pm 0.10	0.47 \pm 0.17
	1984				
	Weekend	0.29 \pm 0.24	0.18 \pm 0.11	0.78 \pm 0.51	0.30 \pm 0.17
	Weekday	0.82 \pm 0.49	0.15 \pm 0.08	0.86 \pm 0.30	0.60 \pm 0.19
Sheepshead					
	1983				
	Weekend	<.01 \pm <.01	0.00	0.01 \pm 0.01	<.01 \pm <.01
	Weekday	<.01 \pm <.01	0.00	<.01 \pm <.01	<.01 \pm <.01

Table G.7. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Sheepshead (Cont'd.)						
1984						
	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		<0.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday		0.00	<.01 ± <.01	0.00	<.01 ± <.01
Spotted seatrout						
1983						
	Weekend		0.00	<.01 ± <.01	<.01 ± <.01	<.01 ± <.01
	Weekday		0.00	0.16 ± 0.14	0.01 ± <.01	0.06 ± 0.05
1984						
	Weekend		0.00	0.01 ± <.01	0.01 ± 0.01	<.01 ± <.01
	Weekday		0.00	0.00	0.01 ± 0.01	<.01 ± <.01
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
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

^aDue 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 (1983-1985).

Species	Year	Area			Coastwide
		Galveston	Corpus Christi	Lower Laguna Madre	
Day type					
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
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
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
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
Sand seatrout					
1983-84					
	Weekend	0.19 \pm 0.19	0.18 \pm 0.18	0.02 \pm 0.02	0.17 \pm 0.12
	Weekday	0.00	0.09 \pm 0.09	0.15 \pm 0.10	0.08 \pm 0.04
1984-85					
	Weekend	0.01 \pm 0.01	0.06 \pm 0.06	0.12 \pm 0.11	0.05 \pm 0.03
	Weekday	0.02 \pm 0.02	0.01 \pm 0.01	0.36 \pm 0.28	0.19 \pm 0.14
Sheepshead					
1983-84					
	Weekend	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01
	Weekday	0.00	0.00	0.03 \pm 0.02	0.01 \pm 0.01

Table G.8. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Sheepshead (Cont'd.)				
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
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
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	<0.01 ± <.01	<0.01 ± <.01
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
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

^aDue 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 (1978-1985)^a. Number in parenthesis indicates number of surveys.

Area	Year Season	Sand seatrout	Atlantic croaker	Other	All species combined
Galveston					
1978-79					
	Low use (8)	0.00	0.00	0.14	0.14 \pm 0.08
	High use (12)	1.85 \pm 0.66	0.59 \pm 0.25	0.16	2.59 \pm 0.71
1981-82					
	Low use (3)	0.00	0.02 \pm 0.02	0.08	0.09 \pm 0.04
	High use (15)	0.52 \pm 0.23	0.52 \pm 0.16	0.32	1.35 \pm 0.28
1983-84					
	Low use (10)	0.11 \pm 0.11	0.10 \pm 0.07	0.06	0.27 \pm 0.16
	High use (16)	0.40 \pm 0.20	0.34 \pm 0.19	0.24	0.98 \pm 0.39
1984-85					
	Low use (15)	0.02 \pm 0.01	0.04 \pm 0.03	0.08	0.13 \pm 0.06
	High use (19)	0.46 \pm 0.26	0.23 \pm 0.12	0.07	0.76 \pm 0.38
Corpus Christi					
1978-79					
	Low use (5)	0.12 \pm 0.10	0.00	0.16	0.29 \pm 0.19
	High use (19)	1.32 \pm 0.33	0.02 \pm 0.01	0.25	1.58 \pm 0.33
1981-82					
	Low use (6)	0.11 \pm 0.05	0.00	0.15	0.25 \pm 0.07
	High use (13)	1.10 \pm 0.40	0.04 \pm 0.01	0.11	1.25 \pm 0.40
1983-84					
	Low use (15)	0.15 \pm 0.13	0.00	0.05	0.20 \pm 0.14
	High use (19)	0.56 \pm 0.17	0.01 \pm 0.01	0.12	0.70 \pm 0.20
1984-85					
	Low use (13)	0.04 \pm 0.04	0.00	0.08	0.12 \pm 0.07
	High use (19)	0.17 \pm 0.07	<.01 \pm <.01	0.06	0.22 \pm 0.08
Lower Laguna Madre					
1978-79					
	Low use (5)	0.08 \pm 0.08	<.01	0.08	0.16 \pm 0.07
	High use (14)	0.52 \pm 0.19	0.01 \pm 0.01	0.19	0.71 \pm 0.20
1981-82					
	Low use (6)	0.13 \pm 0.11	0.00	0.33	0.46 \pm 0.17
	High use (10)	0.60 \pm 0.20	0.01 \pm 0.01	0.22	0.90 \pm 0.19
1983-84					
	Low use (14)	0.13 \pm 0.08	0.01 \pm 0.01	0.15	0.29 \pm 0.12
	High use (18)	0.28 \pm 0.10	0.03 \pm 0.01	0.21	0.52 \pm 0.16

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

Area Year Season	Sand seatrout	Atlantic croaker	Other	All species combined
Lower Laguna Madre (Cont'd.)				
1984-85				
Low use (16)	0.29 ± 0.19	<.01 ± <.01	0.37	0.66 ± 0.33
High use (20)	0.84 ± 0.26	0.01 ± <.01	0.12	0.98 ± 0.29
Coastwide Total				
1978-79				
Low use (18)	0.06 ± 0.03	<.01	0.12	0.19 ± 0.04
High use (45)	1.21 ± 0.24	0.34 ± 0.08	0.19	2.02 ± 0.22
1981-82				
Low use (15)	0.10 ± 0.05	0.01 ± 0.01	0.11	0.27 ± 0.04
High use (38)	0.73 ± 0.17	0.26 ± 0.05	0.22	1.25 ± 0.12
1983-84				
Low use (39)	0.13 ± 0.07	0.04 ± 0.02	0.07	0.24 ± 0.09
High use (53)	0.45 ± 0.11	0.14 ± 0.07	0.18	0.78 ± 0.17
1984-85				
Low use (44)	0.11 ± 0.06	0.01 ± 0.01	0.17	0.29 ± 0.01
High use (58)	0.44 ± 0.14	0.12 ± 0.05	0.08	0.63 ± 0.19

^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 (1983-1985). Blank = no 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
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
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
Red drum				
1983-84	0.71			0.71
1984-85	3.83			3.83
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
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
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
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
All species combined ^a				
1983-84	0.55 \pm 0.14	0.36 \pm 0.04	0.32 \pm 0.02	0.45 \pm 0.09
1984-85	0.40 \pm 0.10	0.51 \pm 0.18	0.21 \pm 0.01	0.35 \pm 0.08

^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 (1983-1984). Blank = no fish weighed.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
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
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
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
Red drum				
1983				
Weekend	0.71			0.71
Weekday				
1984				
Weekend				
Weekday				
Sand seatrout				
1983				
Weekend	0.26 \pm 0.02	0.23 \pm 0.02	0.27 \pm 0.03	0.24 \pm 0.02
Weekday	0.22 \pm 0.01	0.25 \pm 0.01	0.24 \pm 0.02	0.23 \pm 0.01
1984				
Weekend	0.20 \pm 0.02	0.21 \pm 0.01	0.23 \pm 0.01	0.21 \pm 0.02
Weekday	0.24 \pm 0.02	0.23 \pm 0.02	0.24 \pm 0.01	0.24 \pm 0.01
Sheepshead				
1983				
Weekend	1.13		0.56	0.71 \pm 0.71
Weekday	0.92		0.75 \pm 0.07	0.78 \pm 0.25

Table G.11. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Sheepshead (Cont'd.)				
1984				
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
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
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

^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 (1983-1985). Blank = no fish weighed.

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
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
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
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
Red drum				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday	3.83			3.83
Sand seatrout				
1983-84				
Weekend	0.23	0.32	0.23 \pm 0.01	0.29 \pm 0.28
Weekday		0.26	0.31 \pm 0.05	0.29 \pm 0.12
1984-85				
Weekend	0.22	0.30	0.26 \pm 0.02	0.27 \pm 0.18
Weekday	0.33	0.12	0.23 \pm 0.02	0.23 \pm 0.03
Sheepshead				
1983-84				
Weekend	1.41			1.41
Weekday			0.52 \pm 0.02	0.52 \pm 0.02

Table G.12. (Cont'd.)

Species Year Day type	Area			Coastwide
	Galveston	Corpus Christi	Lower Laguna Madre	
Sheepshead (Cont'd.)				
1984-85				
Weekend	0.85		0.62	0.63 ± 0.63
Weekday			0.69 ± 0.09	0.69 ± 0.09
Southern flounder				
1983-84				
Weekend				
Weekday	0.12			0.12
1984-85				
Weekend		0.17		0.17
Weekday			0.43 ± 0.43	0.43
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday			0.24	0.24
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

^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 (1983-1985). Blank = no 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
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
Gafftopsail catfish				
1983-84	400 \pm 53	514 \pm 25		464 \pm 24
1984-85	446 \pm 36	398 \pm 33		407 \pm 18
Red drum				
1983-84	408			408
1984-85	704			704
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
Sheepshead				
1983-84	405 \pm 17		312 \pm 6	335 \pm 5
1984-85	366		328 \pm 2	330 \pm 4
Southern flounder				
1983-84	330 \pm 42	365		342 \pm 98
1984-85	330 \pm 17	304 \pm 76	336	323 \pm 89
Spotted seatrout				
1983-84		331 \pm 8	351 \pm 17	332 \pm 8
1984-85		318	349 \pm 6	337 \pm 82
All species combined^a				
1983-84	278 \pm 12	288 \pm 5	289 \pm 4	283 \pm 8
1984-85	288 \pm 13	304 \pm 13	283 \pm 3	288 \pm 7

^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 (1983-1984). Blank = no 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
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
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
Red drum				
1983				
Weekend	408			408
Weekday				
1984				
Weekend				
Weekday				
Sand seatrout				
1983				
Weekend	288 \pm 9	275 \pm 9	292 \pm 10	279 \pm 8
Weekday	270 \pm 4	282 \pm 5	280 \pm 6	275 \pm 4
1984				
Weekend	262 \pm 10	298	277 \pm 3	271 \pm 6
Weekday	280 \pm 7	227	281 \pm 5	275 \pm 4
Sheepshead				
1983				
Weekend	404		313 \pm 131	343 \pm 194
Weekday	376		349 \pm 12	358 \pm 50

Table G.14. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Sheepshead (Cont'd.)				
1984				
Weekend				
Weekday				
Southern flounder				
1983				
Weekend	365 ± 8			365 ± 8
Weekday		365		365
1984				
Weekend	330 ± 17			330 ± 17
Weekday		417		417
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
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

^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 (1983-1985). Blank = no fish measured.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
Year				
Day type				
Atlantic croaker				
1983-84				
Weekend	188 \pm 1			188 \pm 1
Weekday	184 \pm 9		261	223 \pm 90
1984-85				
Weekend	167			167
Weekday	196	172	190	192 \pm 188
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
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
Red drum				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday	704			704
Sand seatrout				
1983-84				
Weekend	279	307	277 \pm 1	296 \pm 290
Weekday		288	305 \pm 17	300 \pm 64
1984-85				
Weekend	269	298	288 \pm 7	291 \pm 129
Weekday	309	227	277 \pm 9	277 \pm 9
Sheepshead				
1983-84				
Weekend	436			436
Weekday			307 \pm 3	307 \pm 3

Table G.15. (Cont'd.)

Species Year Day type	Area			Coastwide
	Galveston	Corpus Christi	Lower Laguna Madre	
Sheepshead (Cont'd.)				
1984-85				
Weekend	366		326	328 ± 165
Weekday			335 ± 16	335 ± 16
Southern flounder				
1983-84				
Weekend	224			224
Weekday		247		247
1984-85				
Weekend			336	336
Weekday				
Spotted seatrout				
1983-84				
Weekend				
Weekday				
1984-85				
Weekend				
Weekday			298 ± 298	298
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

^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 - 1985).

Year Season Day type	Common name	Scientific name	Area				Coastwide
			Galveston	Christi	Lower Laguna Madre		
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 chrysura</u>	55.56			18.52	
	Snapper sp.						
	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	
	Shark sp.						
	Atlantic sharpnose shark	<u>Rhizoprionodon terraenovae</u>	5.47			2.09	
	Blacktip shark	<u>Carcharhinus limbatus</u>	0.32		0.45	0.37	
	Bonnethead	<u>Sphyrna tiburo</u>		1.59		0.12	
	Hammerhead sp.	Family <u>Sphyrnidae</u>	0.32			0.12	

Table G.16. (Cont'd.)

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

Table G.16. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				Coastwide
			Galveston	Christi	Lower Laguna Madre		
Weekday	Gulf flounder	<u>Paralichthys albigutta</u>	18.00		1.92	0.78	
	Gulf kingfish	<u>Menticirrhus littoralis</u>	2.00	3.85	1.92	7.81	
	Hardhead catfish	<u>Arius felis</u>	26.00		1.92	2.34	
	Pigfish	<u>Orthopristis chrysoptera</u>				10.16	
	Shark 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 chrysura</u>	4.00			1.56	
	Southern kingfish	<u>Menticirrhus americanus</u>	16.00	80.77	94.23	60.94	
Low use Weekend	Atlantic cutlassfish	<u>Trichiurus lepturus</u>	50.00			1.79	
	Florida pompano	<u>Trachinotus carolinus</u>		35.29		10.71	
	Pigfish	<u>Orthopristis chrysoptera</u>		17.65		5.36	
	Pinfish	<u>Lagodon rhomboides</u>		11.76		3.57	
	Southern kingfish	<u>Menticirrhus americanus</u>	50.00	35.29	100.00	78.57	
	Weekday	Crevalle jack	<u>Caranx hippos</u>	6.67			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 terraerovae</u>	46.67			4.73	
Bonnethead		<u>Sphyrna tiburo</u>		6.67		0.68	
Southern hake		<u>Urophycis floridanus</u>	6.67			0.68	
Southern kingfish		<u>Menticirrhus americanus</u>	26.67	93.33	97.46	89.86	

Table G.17. Percent composition of the annual residential origin of headboat fishermen in Texas bays and passes by area (1983-85).

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
Corpus Christi				
1983-84	20	6	58	15
1984-85	19	9	57	15
Lower Laguna Madre				
1983-84	10	10	48	33
1984-85	18	8	40	34
Coastwide				
1983-84	34	4	42	20
1984-85	42	5	33	20

Table G.18. Percent composition of the residential origin of headboat fishermen in Texas bays and passes during the high-use season by area and day type (1983-1984).

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	68	0	7	25	42	0	23	35
1984	72	0	13	15	61	1	20	18
Corpus Christi								
1983	19	12	5	64	20	3	18	59
1984	17	8	6	68	13	11	18	58
Lower Laguna Madre								
1983	12	20	23	45	5	9	34	53
1984	39	9	12	40	10	10	25	55
Coastwide								
1983	37	8	9	45	27	3	24	46
1984	49	4	11	36	37	5	21	37

Table G.19. Percent composition of the residential origin of headboat fishermen in Texas bays and passes during the low-use season by area and day type (1983-1985).

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	93	0	3	62	0	14
1984-85	71	1	10	52	3	19
Corpus Christi						
1983-84	29	3	6	13	3	37
1984-85	24	9	8	22	8	41
Lower Laguna Madre						
1983-84	14	0	16	10	6	33
1984-85	34	7	25	10	3	21
Coastwide						
1983-84	43	2	7	33	3	26
1984-85	53	4	12	31	4	26

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 (1983-1985).

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

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 (1982-1985). WE = weekend days. WD = weekdays.

Year Season Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1982-83					
High use					
WE	31 (46)	54 (268)	54 (470)	23 (81)	162 (865)
WD	66 (7)	116 (104)	122 (500)	55 (33)	359 (644)
Low use					
WE	12 (0)	24 (5)	24 (2)	12 (0)	72 (7)
WD	24 (0)	48 (16)	48 (2)	24 (2)	144 (20)
Annual	133 (53)	242 (393)	248 (974)	114 (116)	737 (1536)
1983-84					
High use					
WE	32 (25)	45 (189)	45 (300)	31 (62)	153 (576)
WD	63 (2)	83 (98)	96 (203)	66 (25)	308 (328)
Low use					
WE	12 (0)	24 (37)	20 (2)	12 (4)	68 (43)
WD	24 (0)	40 (0)	41 (5)	24 (3)	129 (8)
Annual	131 (27)	192 (324)	202 (510)	133 (94)	658 (955)
1984-85					
High use					
WE	31 (11)	39 (504)	41 (537)	31 (92)	142 (1144)
WD	65 (12)	87 (98)	95 (304)	66 (33)	313 (447)
Low use					
WE	12 (0)	19 (86)	21 (6)	12 (5)	64 (97)
WD	24 (0)	41 (7)	42 (7)	24 (6)	131 (20)
Annual	132 (23)	186 (695)	199 (854)	133 (136)	650 (1708)

Table H.2. Pressure estimates (man-h x 1000) \pm 1 SE for private-boat fishermen in the TTS by season and day type (1982-1985).

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
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
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
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
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

^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 (1982-1985).

Species Year Day type	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
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
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
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
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
Red snapper					
1982-83	0.7 \pm 0.7	15.8 \pm 7.0	1.2 \pm 0.5	2.4 \pm 1.1	20.1 \pm 13.5
1983-84	<.1 \pm <.1	1.1 \pm 0.6	0.8 \pm 0.5	1.6 \pm 0.7	3.5 \pm 1.1
1984-85	0.0	3.1 \pm 2.6	0.1 \pm <.1	0.1 \pm 0.1	3.3 \pm 2.6
Sand seatrout					
1982-83	0.2 \pm 0.2	47.7 \pm 18.5	5.7 \pm 1.6	0.7 \pm 0.4	54.3 \pm 35.6
1983-84	0.2 \pm 0.2	7.4 \pm 4.2	<.1 \pm <.1	0.0	7.7 \pm 4.2
1984-85	1.6 \pm 1.6	19.3 \pm 16.6	0.6 \pm 0.4	0.0	21.5 \pm 16.7
Spanish mackerel					
1982-83	1.2 \pm 1.1	1.4 \pm 0.6	0.5 \pm 0.1	0.0	3.0 \pm 1.7
1983-84	0.0	0.5 \pm 0.4	0.4 \pm 0.2	0.3 \pm 0.3	1.2 \pm 0.6
1984-85	0.0	0.1 \pm <.1	<.1 \pm <.1	2.6 \pm 2.6	2.7 \pm 2.6
Spotted seatrout					
1982-83	1.3 \pm 1.1	1.5 \pm 0.3	0.3 \pm 0.1	0.2 \pm 0.2	3.4 \pm 1.3
1983-84	0.0	3.1 \pm 1.8	<.1 \pm <.1	0.1 \pm 0.1	3.1 \pm 1.9
1984-85	0.3 \pm 0.3	0.9 \pm 0.4	<.1 \pm <.1	0.2 \pm 0.2	1.4 \pm 0.5

Table H.3. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Vermilion snapper					
1982-83 ^b					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Other species					
1982-83	2.1 ± 1.3	2.3 ± 0.7	3.3 ± 0.1	0.3 ± 0.1	8.0 ± 2.1
1983-84	0.1 ± 0.1	2.0	2.8	0.1	5.1
1984-85	<.1	3.2	2.1	0.3 ± 0.2	5.8
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	27.7 ± 17.2	11.0 ± 2.7	4.0 ± 2.8	44.6 ± 17.8

^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 (1982-1984).

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
Atlantic sharpnose shark							
1982 ^b							
		Weekend					
		Weekday					
1983							
		Weekend	0.0	0.0	0.1 \pm 0.1	0.0	0.1 \pm 0.1
		Weekday	0.0	<.1 \pm <.1	0.4 \pm 0.4	0.0	0.4 \pm 0.4
1984							
		Weekend	0.0	<.1 \pm <.1	0.1 \pm 0.1	0.0	0.2 \pm 0.1
		Weekday	0.0	<.1 \pm <.1	<.1 \pm <.1	0.0	<.1 \pm <.1
Cobia							
1982							
		Weekend	0.0	0.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1	0.2 \pm 0.1
		Weekday	0.6 \pm 0.6	0.1 \pm <.1	<.1 \pm <.1	0.0	0.7 \pm 0.6
1983							
		Weekend	0.0	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1
		Weekday	0.0	<.1 \pm <.1	<.1 \pm <.1	0.0	<.1 \pm <.1
1984							
		Weekend	0.0	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1	<.1 \pm <.1
		Weekday	0.0	0.0	0.1 \pm 0.1	0.0	0.1 \pm 0.1
King mackerel							
1982							
		Weekend	1.0 \pm 1.0	2.0 \pm 0.4	1.5 \pm 0.3	0.3 \pm 0.2	4.9 \pm 1.4
		Weekday	7.2 \pm 7.2	0.5 \pm 0.1	3.7 \pm 0.7	<.1 \pm <.1	11.5 \pm 7.4
1983							
		Weekend	0.0	0.7 \pm 0.5	2.5 \pm 1.5	0.1 \pm 0.1	3.4 \pm 1.6
		Weekday	0.0	0.4 \pm 0.2	6.9 \pm 3.2	0.4 \pm 0.3	7.7 \pm 3.2
1984							
		Weekend	0.0	0.5 \pm 0.2	2.7 \pm 1.1	0.5 \pm 0.3	3.6 \pm 1.1
		Weekday	0.0	0.2 \pm 0.1	3.6 \pm 1.5	0.2 \pm 0.2	4.0 \pm 1.5

Table H.4. (Cont'd.)

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

Table H.4. (Cont'd.)

Species	Year	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Day type					
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
Vermilion snapper						
	1982 ^b					
	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
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
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

^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 (1982-1985).

Species	Year	Area				Coastwide ^a
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
Atlantic croaker						
1982-83						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.1 \pm <.1	0.0	0.0	0.1 \pm 0.1
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark						
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	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
	Weekday	0.0	0.0	0.0	0.0	0.0
Cobia						
1982-83						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
King mackerel						
1982-83						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0

Table H.5. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red drum							
	1982-83						
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	<.1 ± <.1
	1983-84						
	Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	0.0	0.0	<.1 ± <.1	<.1 ± <.1	<.1 ± <.1
	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
Red snapper							
	1982-83						
	Weekend	0.0	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	1.5 ± 1.1
	1983-84						
	Weekend	0.0	0.1 ± 0.1	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1
	Weekday	0.0	0.0	0.0	0.0	0.0	0.0
	1984-85						
	Weekend	0.0	2.9 ± 2.6	<.1 ± <.1	0.0	2.9 ± 2.6	2.9 ± 2.6
	Weekday	0.0	0.0	0.0	0.0	0.0	0.0
Sand seatrout							
	1982-83						
	Weekend	0.0	1.1 ± 0.5	0.0	0.0	1.1 ± 1.1	1.1 ± 1.1
	Weekday	0.0	4.5 ± 1.7	0.0	0.0	4.5 ± 3.5	4.5 ± 3.5
	1983-84						
	Weekend	0.0	7.0 ± 4.2	0.0	0.0	7.0 ± 4.2	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	17.5 ± 16.6	17.5 ± 16.6
	Weekday	0.0	0.2 ± 0.2	0.0	0.0	0.2 ± 0.2	0.2 ± 0.2
Spanish mackerel							
	1982-83						
	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
	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	<.1 ± <.1	<.1 ± <.1
	Weekday	0.0	0.0	0.0	0.0	0.0	0.0

Table H.5. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Spotted seatrout					
1982-83					
Weekend	0.0	0.1 ± <.1	0.0	0.0	0.1 ± 0.1
Weekday	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
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
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
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

^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 (1982-1985).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
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
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
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	0.0	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.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
1983-1984	0.00	0.05 \pm 0.03	0.06 \pm 0.03	0.06 \pm 0.04	0.04 \pm 0.02
1984-85	0.00	0.02 \pm 0.01	0.09 \pm 0.03	0.03 \pm 0.02	0.06 \pm 0.02
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
Red snapper					
1982-83	0.02 \pm 0.02	0.33 \pm 0.23	0.01 \pm 0.01	0.20 \pm 0.10	0.11 \pm 0.07
1983-84	<.01 \pm <.01	0.05 \pm 0.03	<.01 \pm <.01	0.18 \pm 0.09	0.01 \pm 0.01
1984-85	0.00	0.08 \pm 0.07	<.01 \pm <.01	<.01 \pm <.01	0.02 \pm 0.02
Sand seatrout					
1982-83	<.01 \pm <.01	1.00 \pm 0.64	0.07 \pm 0.04	0.06 \pm 0.04	0.29 \pm 0.19
1983-84	<.01 \pm <.01	0.36 \pm 0.22	<.01 \pm <.01	0.00	0.02 \pm 0.02
1984-85	0.20 \pm 0.20	0.49 \pm 0.43	<.01 \pm <.01	0.00	0.14 \pm 0.11
Spanish mackerel					
1982-83	0.03 \pm 0.03	0.03 \pm 0.02	0.01 \pm <.01	0.00	0.02 \pm 0.01
1983-84	0.00	0.02 \pm 0.02	<.01 \pm <.01	0.03 \pm 0.03	<.01 \pm <.01
1984-85	0.00	<.01 \pm <.01	<.01 \pm <.01	0.12 \pm 0.12	0.02 \pm 0.02
Spotted seatrout					
1982-83	0.03 \pm 0.03	0.03 \pm 0.02	<.01 \pm <.01	0.02 \pm 0.02	0.02 \pm 0.01
1983-84	0.00	0.15 \pm 0.10	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm 0.01
1984-85	<.01 \pm <.01	0.02 \pm 0.01	<.01 \pm <.01	0.01 \pm 0.01	0.01 \pm <.01

Table H.6. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1982-83 ^b					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85	0.00	0.00	0.00	0.00	0.00
Other species					
1982-83	0.05 ± 0.04	0.05 ± 0.02	0.04 ± 0.01	0.03 ± 0.01	0.04 ± 0.01
1983-84	<.01 ± <.01	0.10	0.02 ± 0.01	0.02	0.02
1984-85	<.01 ± <.01	0.08	0.03	0.02 ± 0.01	0.04
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

^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 (1982-1984).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker							
	1982						
		Weekend	0.03 \pm 0.02	0.01 \pm <.01	<.01 \pm <.01	0.00	0.01 \pm <.01
		Weekday	0.00	0.00	0.00	0.07 \pm 0.07	<.01 \pm <.01
	1983						
		Weekend	0.05 \pm 0.05	0.00	0.00	0.00	<.01 \pm <.01
		Weekday	0.00	0.02 \pm 0.02	0.00	0.00	<.01 \pm <.01
	1984						
		Weekend	0.00	0.01 \pm <.01	0.00	0.00	<.01 \pm <.01
		Weekday	<.01 \pm <.01	0.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01
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
Cobia							
	1982						
		Weekend	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
		Weekday	0.02 \pm 0.02	0.01 \pm <.01	<.01 \pm <.01	0.00	0.01 \pm 0.01
	1983						
		Weekend	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
		Weekday	0.00	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01
	1984						
		Weekend	0.00	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01
		Weekday	0.00	0.00	<.01 \pm <.01	0.00	<.01 \pm <.01
King mackerel							
	1982						
		Weekend	0.08 \pm 0.08	0.06 \pm 0.03	0.03 \pm 0.01	0.04 \pm 0.03	0.05 \pm 0.02
		Weekday	0.24 \pm 0.24	0.05 \pm 0.02	0.10 \pm 0.04	0.01 \pm 0.01	0.14 \pm 0.10
	1983						
		Weekend	0.00	0.05 \pm 0.04	0.04 \pm 0.02	0.02 \pm 0.02	0.04 \pm 0.02
		Weekday	0.00	0.08 \pm 0.05	0.15 \pm 0.08	0.10 \pm 0.09	0.04 \pm 0.03
	1984						
		Weekend	0.00	0.03 \pm 0.02	0.07 \pm 0.04	0.07 \pm 0.04	0.06 \pm 0.02
		Weekday	0.00	0.04 \pm 0.02	0.10 \pm 0.05	0.02 \pm 0.02	0.08 \pm 0.04

Table H.7. (Cont'd.)

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

Table H.7. (Cont'd.)

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

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

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

Table H.8. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
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
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
Sand seatrout						
	1982-83					
	Weekend		2.75 ± 1.20	0.00		0.49 ± 0.49
	Weekday		2.25 ± 1.00	0.00	0.00	1.52 ± 1.29
	1983-84					
	Weekend		3.30 ± 2.43	0.00	0.00	1.20 ± 0.93
	Weekday			0.00	0.00	0.00
	1984-85					
	Weekend		1.02 ± 0.99	0.00	0.00	0.88 ± 0.84
	Weekday		0.92 ± 0.92	0.00	0.00	0.09 ± 0.09
Spanish mackerel						
	1982-83					
	Weekend		0.03 ± 0.01	0.00		<.01 ± <.01
	Weekday		0.00	0.00	0.00	0.00
	1983-84					
	Weekend		0.00	0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
	1984-85					
	Weekend		<.01 ± <.01	0.00	0.00	<.01 ± <.01
	Weekday		0.00	0.00	0.00	0.00

Table H.8. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Spotted seatrout						
1982-83						
	Weekend		0.25 ± 0.10	0.00		0.05 ± 0.05
	Weekday		0.02 ± <.01	0.00	0.00	0.01 ± 0.01
1983-84						
	Weekend		0.00	0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
1984-85						
	Weekend		0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
Vermilion snapper						
1982-83 ^b						
	Weekend					
	Weekday					
1983-84						
	Weekend		0.00	0.00	0.00	0.00
	Weekday			0.00	0.00	0.00
1984-85						
	Weekend		0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
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
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	0.30 ± 0.30	1.32 ± 1.00
	Weekday			0.00	0.06 ± 0.06	<.01 ± <.01
1984-85						
	Weekend		1.24 ± 0.05	0.16 ± 0.16	0.06 ± 0.06	1.08 ± 0.90
	Weekday		1.30 ± 1.21	0.00	0.04 ± 0.04	0.15 ± 0.12

^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 (1982-1985). Blank = no fish weighed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1982-83		0.47 \pm 0.11			0.47 \pm 0.21
1983-84	0.10 \pm 0.10	0.44			0.28 \pm 0.28
1984-85	0.20 \pm 0.20	0.34 \pm 0.05	0.11		0.32 \pm 0.07
Atlantic sharpnose shark					
1982-83 ^a					
1983-84		7.53	5.89 \pm 0.10		5.94 \pm 0.32
1984-85		1.82 \pm 1.23	1.51 \pm 0.09		1.54 \pm 0.21
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
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
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
Red snapper					
1982-83		0.35 \pm 0.06	0.33 \pm 0.19	0.64 \pm 0.50	0.40 \pm 0.15
1983-84		0.45 \pm 0.03	0.27 \pm 0.08	0.48 \pm 0.07	0.43 \pm 0.06
1984-85		0.50 \pm 0.07	0.09 \pm 0.03	0.22 \pm 0.07	0.48 \pm 0.07
Sand seatrout					
1982-83	0.45	0.38 \pm 0.33	0.26 \pm 0.05	0.40	0.35 \pm 0.21
1983-84	0.11	0.44 \pm 0.02	0.34		0.43 \pm 0.03
1984-85	0.20	0.46 \pm 0.02	0.26 \pm 0.04		0.44 \pm 0.04
Spanish mackerel					
1982-83	1.05	0.67 \pm 0.35	0.81 \pm 0.07		0.67 \pm 0.18
1983-84		1.02 \pm 0.06	1.20 \pm 0.09		1.10 \pm 0.07
1984-85		1.23 \pm 0.27	1.07	0.44	0.47 \pm 0.44
Spotted seatrout					
1982-83	0.76	0.69 \pm 0.39	0.80 \pm 0.52	0.59	0.69 \pm 0.29
1983-84		0.82 \pm 0.12	1.26	1.38	0.83 \pm 0.15
1984-85	0.84 \pm 0.11	1.15 \pm 0.07	0.99 \pm 0.06	0.81	1.03 \pm 0.16

Table H.9. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Vermilion snapper					
1982-83 ^a					
1983-84					
1984-85					
All species combined ^b					
1982-83	2.00 ± 7.90	0.76 ± 1.08	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

^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 (1982-1984). Blank = no fish weighed.

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker							
	1982						
		Weekend		0.54 \pm 0.14		0.54 \pm 0.14	
		Weekday					
	1983						
		Weekend	0.10			0.10	
		Weekday		0.44		0.44	
	1984						
		Weekend		0.33 \pm 0.07		0.33 \pm 0.07	
		Weekday	0.20	0.39 \pm 0.02	0.11 \pm 0.11	0.28 \pm 0.08	
Atlantic sharpnose shark							
	1982 ^a						
		Weekend					
		Weekday					
	1983						
		Weekend			5.96 \pm 0.17	5.96 \pm 0.17	
		Weekday		7.53	5.75 \pm 5.75	5.82 \pm 5.82	
	1984						
		Weekend		1.82 \pm 1.23	1.46 \pm 1.46	1.48 \pm 1.44	
		Weekday			2.02 \pm 2.02	2.02	
Cobia							
	1982						
		Weekend		18.18 \pm 1.29	9.90	4.55	12.70 \pm 3.40
		Weekday		6.74 \pm 0.73	8.83 \pm 1.94		7.77 \pm 1.36
	1983						
		Weekend		15.16		3.92	9.85 \pm 9.85
		Weekday		10.69 \pm 0.23	19.16		13.52 \pm 6.54
	1984						
		Weekend		9.30 \pm 1.39	11.13		10.25 \pm 6.45
		Weekday			8.57 \pm 8.57		8.57
King mackerel							
	1982						
		Weekend	5.63	6.65 \pm 1.94	7.24 \pm 1.06	4.42 \pm 1.61	6.63 \pm 0.90
		Weekday		7.43 \pm 1.52	5.92 \pm 1.19		5.85 \pm 1.21
	1983						
		Weekend		9.81 \pm 0.93	8.60 \pm 0.44	7.07 \pm 1.39	8.82 \pm 0.57
		Weekday		9.59 \pm 1.18	10.64 \pm 0.72	12.07 \pm 0.44	10.67 \pm 0.73
	1984						
		Weekend		9.11 \pm 0.53	7.78 \pm 0.53	5.89 \pm 0.65	7.73 \pm 0.54
		Weekday		13.27 \pm 2.74	9.34 \pm 0.64	6.48	9.31 \pm 1.08

Table H.10. (Cont'd.)

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

Table H.10. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Spotted seatrout						
	1982					
	Weekend	0.76	0.63 ± 0.14	0.34 ± <.01	0.59	0.61 ± 0.24
	Weekday		0.86 ± 0.11	1.04 ± 0.29		0.88 ± 0.42
	1983					
	Weekend		0.73 ± 0.14		1.38	0.75 ± 0.18
	Weekday		1.05 ± 0.07	1.26		1.05 ± 0.08
	1984					
	Weekend		1.15 ± 0.11			1.15 ± 0.11
	Weekday	0.84 ± 0.11	1.15 ± 0.07	0.99 ± 0.06	0.81	0.97 ± 0.22
Vermilion snapper						
	1982 ^a					
	Weekend					
	Weekday					
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
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

^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 (1982-1985). Blank = no fish weighed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
	1982-83					
	Weekend					
	Weekday		0.28			0.28
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Atlantic sharpnose shark						
	1982-83 ^a					
	Weekend					
	Weekday					
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Cobia						
	1982-83					
	Weekend					
	Weekday					
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
King mackerel						
	1982-83					
	Weekend					
	Weekday					
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					

Table H.11. (Cont'd.)

Species	Year	Area				Coastwide
		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					
	Weekday				2.20	2.20
1984-85						
	Weekend					
	Weekday					
Red snapper						
1982-83						
	Weekend					
	Weekday		0.40 ± 0.07		1.33	0.45 ± 0.32
1983-84						
	Weekend		0.75 ± 0.28			0.75 ± 0.28
	Weekday					
1984-85						
	Weekend		0.42	0.04		0.42 ± 0.42
	Weekday					
Sand seatrout						
1982-83						
	Weekend					
	Weekday		0.43 ± 0.79			0.43 ± 0.79
1983-84						
	Weekend		0.43 ± 0.02			0.43 ± 0.02
	Weekday					
1984-85						
	Weekend					
	Weekday					
Spanish mackerel						
1982-83						
	Weekend		0.30			0.30
	Weekday					
1983-84						
	Weekend					
	Weekday					
1984-85						
	Weekend		0.28			0.28
	Weekday					

Table H.11. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Day type						
Spotted seatrout						
1982-83						
Weekend			0.84			0.84
Weekday			1.35			1.35
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
Vermilion snapper						
1982-83 ^a						
Weekend						
Weekday						
1983-84						
Weekend						
Weekday						
1984-85						
Weekend						
Weekday						
All species combined ^b						
1982-83						
Weekend			0.98	26.3		1.09 ± 0.56
Weekday			0.44 ± 0.94		1.33	0.45 ± 0.80
1983-84						
Weekend			0.53 ± 0.05		1.40	0.55 ± 0.06
Weekday					2.20	2.20
1984-85						
Weekend			0.75 ± 0.26			0.75 ± 0.26
Weekday			1.48 ± 1.09			1.48 ± 1.09

^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 (1983-1984). Blank = no fish measured.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84	201	322			266 \pm 173
1984-85	253	288 \pm 14	208		281 \pm 36
Atlantic sharpnose shark					
1983-84		1010	958 \pm 13		959 \pm 19
1984-85		651 \pm 119	500 \pm 37		516 \pm 24
Cobia					
1983-84		1133 \pm 38	1325	800	1214 \pm 745
1984-85		1048 \pm 51	1071 \pm 44		1069 \pm 24
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
Red drum					
1983-84		574 \pm 26		595	575 \pm 67
1984-85		605 \pm 8		725	610 \pm 37
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
Sand seatrout					
1983-84	219	343 \pm 5	318		339 \pm 11
1984-85	267	346 \pm 7	286 \pm 11		339 \pm 25
Spanish mackerel					
1983-84		578 \pm 12	612 \pm 17		595 \pm 10
1984-85		593 \pm 53	595	432	438 \pm 215
Spotted seatrout					
1983-84		430 \pm 19	511	513	432 \pm 31
1984-85	445 \pm 20	487 \pm 9	469 \pm 12	442	471 \pm 55
Vermilion snapper					
1983-84					
1984-85					
All species combined ^a					
1983-84	265 \pm 58	465 \pm 42	749 \pm 76	421 \pm 55	592 \pm 55
1984-85	342 \pm 19	488 \pm 30	733 \pm 74	651 \pm 71	557 \pm 40

^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 (1983-1984). Blank = no fish measured.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983					
Weekend	201				201
Weekday		322			322
1984					
Weekend		286 \pm 16			286 \pm 86
Weekday	253	304 \pm 6	208		271 \pm 85
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
Cobia					
1983					
Weekend		1230		800	1035 \pm 710
Weekday		1101 \pm 8	1325		1173 \pm 325
1984					
Weekend		1048 \pm 51	1115		1073 \pm 329
Weekday			1026		1026
King mackerel					
1983					
Weekend		1002 \pm 36	974 \pm 18	911 \pm 59	978 \pm 23
Weekday		992 \pm 33	1027 \pm 18	1069 \pm 11	1027 \pm 18
1984					
Weekend		977 \pm 14	932 \pm 20	837 \pm 16	928 \pm 17
Weekday		1104 \pm 78	992 \pm 20	889	990 \pm 66
Red drum					
1983					
Weekend		551 \pm 48			551 \pm 48
Weekday		591 \pm 34			591 \pm 34
1984					
Weekend		596 \pm 6			596 \pm 6
Weekday		622 \pm 15		725	632 \pm 81
Red snapper					
1983					
Weekend		317 \pm 3	232 \pm 0	326 \pm 15	300 \pm 6
Weekday			263 \pm 14	328	284 \pm 88

Table H.13. (Cont'd.)

Species Year	Area									
	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide	
Red snapper (cont.)										
1984										
Weekend			306 ±	19	212 ±	1	243 ±	24	271 ±	14
Weekday			302 ±	26	210		260		270 ±	95
Sand seatrout										
1983										
Weekend	219		350 ±	19					306 ±	51
Weekday					318				318	
1984										
Weekend			343 ±	7	272 ±	5			327 ±	5
Weekday	267		385		322 ±	15			281 ±	226
Spanish mackerel										
1983										
Weekend			589 ±	5	587 ±	40			588 ±	13
Weekday			554 ±	38	626 ±	7			612 ±	7
1984										
Weekend			609 ±	57	595				606 ±	151
Weekday			673				432		432 ±	216
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
Vermilion snapper										
1983										
Weekend										
Weekday										
1984										
Weekend										
Weekday										
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

^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 (1983-1985). Blank = no fish measured.

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Atlantic croaker					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Atlantic sharpnose shark					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Cobia					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
King mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Red drum					
1983-84					
Weekend					
Weekday				595	595
1984-85					
Weekend					
Weekday					
Red snapper					
1983-84					
Weekend		332 \pm	35		332 \pm 35
Weekday					

Table H.14. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red snapper (cont.)					
1984-85					
Weekend		313 ± 2	151		310 ± 4
Weekday					
Sand seatrout					
1983-84					
Weekend		341 ± 5			341 ± 5
Weekday					
1984-85					
Weekend		345 ± 16			345 ± 16
Weekday		364			364
Spanish mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend		374			374
Weekday					
Spotted seatrout					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Vermilion snapper					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
All species combined ^a					
1983-84					
Weekend		335 ± 10		315 ± 315	335 ± 14
Weekday				595 ± 595	595
1984-85					
Weekend		379 ± 21	151	819 ± 819	382 ± 28
Weekday		461 ± 107		520 ± 520	470 ± 172

^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 - 1985).

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>	58.82	3.80			7.65
	Banded rudderfish	<u>Seriola zonata</u>		6.33			2.94
	Great barracuda	<u>Sphyraena barracuda</u>		2.53			1.18
	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			6.47
	Blue runner	<u>Caranx crysos</u>				20.00	6.47
	Bony fishes sp.	<u>Class Osteichthes</u>		2.53			0.59
	Crevalle jack	<u>Caranx hippos</u>	5.88	5.06			1.18
	Dolphin	<u>Coryphaena hippurus</u>		2.53			16.47
	Gray triggerfish	<u>Balistes capricus</u>		1.27			2.35
	Greater amberjack	<u>Seriola dumerili</u>		3.80			0.59
	Gulf kingfish	<u>Menticirrhus littoralis</u>		6.33			3.53
	Ladyfish	<u>Elops saurus</u>		1.27			2.94
	Little tunny	<u>Euthynnus alletteratus</u>		1.27			0.59
	Pigfish	<u>Orthopristis chrysoptera</u>		1.27			5.29
	Sailfish	<u>Istiophorus platypterus</u>					0.59
	Sea basses sp.	<u>Family Serranidae</u>					1.18
	Rock hind	<u>Epinephelus adscensionis</u>					1.18
	Warsaw grouper	<u>Epinephelus nigritus</u>		1.27			20.00
	Sharks sp.						
	Blacktip shark	<u>Carcharhinus limbatus</u>		17.72			11.76
	Dusky shark	<u>Carcharhinus obscurus</u>					8.82
	Requiem sharks	<u>Family Carcharhinidae</u>					1.18
	Sandbar shark	<u>Carcharhinus plumbeus</u>					1.18
	Sharksucker	<u>Echeneis naucrates</u>					0.59
	Sheepshead	<u>Archosargus probatocephalus</u>		20.25			9.41
	Southern kingfish	<u>Menticirrhus americanus</u>	5.88	5.06			2.94
	Tripletail	<u>Lobotes surinamensis</u>					0.59

Table H.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
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
	Dolphin	<u>Coryphaena hippurus</u>		0.84		5.71		1.94
	Florida pompano	<u>Trachinotus carolinus</u>		1.68				1.29
	Gray triggerfish	<u>Balistes capricus</u>		5.88		2.86		5.16
	Little tunny	<u>Euthynnus alletteratus</u>		0.84		2.86		1.29
	Pigfish	<u>Orthopristis chrysoptera</u>		0.84				0.65
	Sailfish	<u>Istiophorus platyperus</u>				2.86		0.65
	Sea basses sp.							
	Gag		<u>Mycteroperca microlepis</u>		2.52			1.94
	Jewfish		<u>Epinephalus itijara</u>			2.86		0.65
	Warsaw-grouper		<u>Epinephalus nigritus</u>			2.86		0.65
	Sharks sp.							
	Blacknose shark		<u>Carcharhinus acronotus</u>			2.86		0.65
	Blacktip shark		<u>Carcharhinus limbatus</u>		8.40	8.57		8.39
Dusky shark		<u>Carcharhinus obscurus</u>			40.00		9.03	
Finetooth shark		<u>Carcharhinus isodon</u>		0.84	5.71		1.94	
Sharksucker		<u>Echeneis naucrates</u>			5.71		1.29	
Silver seatrout		<u>Cynoscion nothus</u>		44.54			34.19	
Southern flounder		<u>Paralichthys lethostigma</u>		0.84	2.86		1.29	
Southern kingfish		<u>Menticirrhus americanus</u>		5.04			3.87	
Low use Weekend	Black drum	<u>Pogonius cromis</u>		33.33			33.33	33.33
	Gulf kingfish	<u>Menticirrhus littoralis</u>		66.67				44.44
	Sheepshead	<u>Archosargus probatocephalus</u>						3.70
	Snapper sp.							
	Gray snapper		<u>Lutjanus griseus</u>				55.56	18.52

Table H.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
1984-85	Atlantic bonito	<u>Sarda sarda</u>		0.29				0.24
High use	Atlantic spadefish	<u>Chaetodipterus faber</u>		7.58	6.78	21.05		8.08
Weekend	Banded drum	<u>Larimus fasciatus</u>		43.73			10.53	35.63
	Great barracuda	<u>Sphyraena barracuda</u>						0.48
	Black drum	<u>Pogonias cromis</u>		2.62				2.14
	Blue fish	<u>Pomatomus saltatrix</u>		8.75				7.13
	Blue runner	<u>Caranx crysos</u>					10.53	0.48
	Crevalle jack	<u>Caranx hippos</u>		2.04	10.17	5.26		3.33
	Dolphin	<u>Coryphaena hippurus</u>		17.49	47.46	5.26		21.14
	Florida pompano	<u>Trachinotus carolinus</u>		0.29				0.24
	Gafftopsail catfish	<u>Bagre marinus</u>		0.58				0.48
	Gray triggerfish	<u>Balistes capricus</u>		9.91	1.69	5.26		8.55
	Greater amberjack	<u>Seriola dumerili</u>		0.29				0.24
	Gulf kingfish	<u>Menticirrhus littoralis</u>		0.58	1.69	5.26		0.95
	Little tunny	<u>Euthynnus alletteratus</u>			8.47	21.05		2.14
	Pigfish	<u>Orthopristis chrysoptera</u>				5.26		0.24
	Pompano dolphin	<u>Coryphaena equisetis</u>		0.29				0.24
	Seabasses sp							
	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
	Snapper sp.							
	Gray snapper	<u>Lutjanus griseus</u>				5.26		0.24
	Lane snapper	<u>Lutjanus synagris</u>		2.92				2.38
	Southern flounder	<u>Paralichthys lethostigma</u>		0.29				0.24

Table H.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
	Southern kingfish	<u>Menticirrhus americanus</u>	0.29				0.24	
	Tarpon	<u>Megalops atlanticus</u>	0.29				0.24	
Weekday	Atlantic spadefish	<u>Chaetodipterus faber</u>	11.92				6.47	
	Black drum	<u>Pogonius cromis</u>	3.31				1.80	
	Blue fish	<u>Pomatomus saltatrix</u>	4.64		1.63		3.24	
	Blue runner	<u>Caranx crysos</u>			1.63		0.72	
	Crevalle jack	<u>Caranx hippos</u>			2.44		1.08	
	Dolphin	<u>Conyphaena hippurus</u>	3.31		26.83		13.67	
	Gray triggerfish	<u>Balistes capriscus</u>			3.25		1.44	
	Greater amberjack	<u>Seriola dumerli</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			1.44	
	Pigfish	<u>Orthopristis chrysoptera</u>			0.81		0.36	
	Pinfish	<u>Lagodon rhomboides</u>					0.36	
	Rainbow runner	<u>Elagatis bipinnulata</u>	1.32				0.72	
	Seabasses sp.							
	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 lewin</u>	0.66				0.36	
	Sheepshead	<u>Archosargus probatocephalus</u>	66.67				1.08	
	Silver seatrout	<u>Cynoscion nothus</u>	65.56		51.22		58.27	
	Snapper sp.							
	Lane snapper	<u>Lutjanus synagris</u>	1.32				0.72	
	Southern flounder	<u>Paralichthys lethostigma</u>			4.07		1.80	
	Southern kingfish	<u>Menticirrhus americanus</u>	33.33				0.72	
Low use								
Weekend	Black drum	<u>Pogonias cromis</u>	10.45				10.29	
	Crevalle jack	<u>Caranx hippos</u>	1.49			100.00	2.94	

Table H.15. (Cont 'd.)

Year Season Day type	Common name	Scientific name	Area				Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
	Gafftopsail catfish	<u>Bagre marinus</u>		14.93			14.71
	Gray triggerfish	<u>Balistes capricus</u>		2.99			2.94
	Gulf kingfish	<u>Menticirrhus littoralis</u>		5.97			5.88
	Pigfish	<u>Orthopristis chrysoptera</u>		7.46			7.35
	Northern kingfish	<u>Menticirrhus saxatilis</u>		1.49			1.47
	Seabasses sp.						
	Rock sea bass	<u>Centropristis philadelphica</u>		1.49			1.47
	Sheepshead	<u>Archosargus probatocephalus</u>		28.36			27.94
	Southern kingfish	<u>Menticirrhus americanus</u>		5.97			5.88
	Striped mullet	<u>Mugil cephalus</u>		19.40			19.12
Weekday	Black drum	<u>Pogonias cromis</u>		100.00			95.45
	Little tunny	<u>Euthynnus alletteratus</u>				100.00	4.55

Table H.16. Percent composition of the annual residential origin of private-boat fishermen in the TTS by area (1982-85).

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
Matagorda				
1982-83	67	16	16	1
1983-84	36	16	44	3
1984-85	55	15	30	0
Corpus Christi				
1982-83	39	30	28	2
1983-84	22	21	53	4
1984-85	23	20	54	3
Lower Laguna Madre				
1982-83	42	10	14	34
1983-84	16	32	52	0
1984-85	68	10	17	6
Coastwide				
1982-83	59	13	25	2
1983-84	29	20	48	3
1984-85	40	17	40	3

^aPrior 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 in the TTS during the high-use season by area and day type (1982-1985).

Area ^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						
1982-83	89	0	0	100	0	0
1983-84	100	0	0	50	0	50
1984-85	91	0	0	33	25	42
Matagorda						
1982-83	38	36	25	42	27	29
1983-84	38	13	46	37	13	45
1984-85	49	17	34	59	14	26
Corpus Christi						
1982-83	32	11	56	24	9	56
1983-84	26	22	50	16	21	56
1984-85	26	23	50	17	16	59
Lower Laguna Madre						
1982-83	87	8	5	38	22	38
1983-84	19	26	55	12	40	48
1984-85	77	9	12	51	15	28
Coastwide						
1982-83	42	18	40	28	12	50
1983-84	32	19	47	22	20	52
1984-85	41	19	39	29	15	48

^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 in the TTS during the low-use season by area and day type (1982-1985). 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	88	0	12
1983-84	27	41	32			
1984-85	78	8	12	100	0	0
Matagorda						
1982-83						
1983-84						
1984-85						
Corpus Christi						
1982-83	100	0	0	100	0	0
1983-84	100	0	0	40	0	60
1984-85	0	17	67	0	0	100
Lower Laguna Madre						
1982-83				100	0	0
1983-84	0	100	0	0	0	100
1984-85	76	3	10	57	10	5
Coastwide						
1982-83	78	22	0	89	0	11
1983-84	28	44	28	25	0	75
1984-85	74	8	14	40	0	60

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 (1982-1985). Blanks = no fishermen interviewed.

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

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 (1983-1985). WE = weekend days. WD = weekdays.

Year Season Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1983-84					
High use					
WE	32 (2)	45 (3)	45 (19)	31 (11)	153 (35)
WD	63 (10)	83 (10)	96 (12)	66 (15)	308 (37)
Low use					
WE	12 (0)	24 (0)	20 (0)	12 (0)	68 (0)
WD	24 (10)	40 (0)	41 (0)	24 (0)	129 (0)
Annual	131 (2)	192 (13)	202 (31)	133 (26)	658 (72)
1984-85					
High use					
WE	31 (0)	39 (0)	41 (19)	31 (0)	142 (19)
WD	65 (0)	87 (8)	95 (20)	66 (10)	313 (38)
Low use					
WE	12 (0)	19 (0)	21 (0)	12 (6)	64 (6)
WD	24 (0)	41 (0)	42 (0)	24 (0)	131 (0)
Annual	132 (0)	186 (8)	199 (39)	133 (16)	650 (63)

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 (1983-1985).

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
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
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
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
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

^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 (1983-1985).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Cobia					
1983-84	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1
1984-85	0.0	0.0	0.0	0.0	0.0
King mackerel					
1983-84	0.0	0.0	8.6 \pm 5.7	0.9 \pm 0.6	9.5 \pm 5.8
1984-85	0.0	<.1 \pm <.1	0.8 \pm 0.5	0.5 \pm 0.5	1.3 \pm 0.7
Red drum					
1983-84	0.0	0.3 \pm 0.3	0.0	0.0	0.3 \pm 0.3
1984-85	0.0	0.0	0.0	0.0	0.0
Red snapper					
1983-84	0.0	0.0	0.0	7.3 \pm 6.2	7.3 \pm 6.2
1984-85	0.0	0.0	0.0	0.0	0.0
Sand seatrout					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Spanish mackerel					
1983-84	0.0	0.0	0.4 \pm 0.4	0.0	0.4 \pm 0.4
1984-85	0.0	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1
Spotted seatrout					
1983-84	0.0	0.9 \pm 0.6	0.0	0.0	0.9 \pm 0.6
1984-85	0.0	0.3 \pm 0.3	0.0	0.0	0.3 \pm 0.3
Vermilion snapper					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Other species					
1983-84	0.0	1.2	0.4 \pm 0.4	0.5 \pm 0.3	2.1
1984-85	0.0	0.0	0.3 \pm 0.2	0.9 \pm 0.8	1.1 \pm 0.8

Table I.3. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
All species combined ^a					
1983-84	0.0	2.5 ± 2.0	9.5 ± 6.4	8.7 ± 7.1	20.7 ± 9.7
1984-85	0.0	0.4 ± 0.3	1.1 ± 0.6	1.4 ± 1.3	2.9 ± 1.5

^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 (1983-1984).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide ^a	
Atlantic croaker							
1983							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
1984							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark							
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
Cobia							
1983							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1
1984							
		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							
		Weekend	0.0	0.0	3.9 \pm 3.9	0.5 \pm 0.5	4.4 \pm 3.9
		Weekday	0.0	0.0	4.7 \pm 4.2	0.4 \pm 0.3	5.1 \pm 4.2
1984							
		Weekend	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1
		Weekday	0.0	<.1 \pm <.1	0.8 \pm 0.5	<.1 \pm <.1	0.8 \pm 0.5
Red drum							
1983							
		Weekend	0.0	0.0	0.0	0.0	0.0
		Weekday	0.0	0.3 \pm 0.3	0.0	0.0	0.3 \pm 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
Red snapper							
1983							
		Weekend	0.0	0.0	0.0	6.9 \pm 6.2	6.9 \pm 6.2
		Weekday	0.0	0.0	0.0	0.4 \pm 0.3	0.4 \pm 0.3

Table I.4. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red Snapper (cont.)					
1984					
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
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
Spotted seatrout					
1983					
Weekend	0.0	<.1 ± <.1	0.0	0.0	<.1 ± <.1
Weekday	0.0	0.9 ± 0.6	0.0	0.0	0.9 ± 0.6
1984					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.3 ± 0.3	0.0	0.0	0.3 ± 0.3
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
Other species					
1983					
Weekend	0.0	0.1	0.4 ± 0.4	0.4 ± 0.3	0.9 ± 0.5
Weekday	0.0	1.1	0.0	0.1 ± 0.1	1.2
1984					
Weekend	0.0	0.0	0.2 ± 0.2	0.0	0.2 ± 0.2
Weekday	0.0	0.0	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1

Table I.4. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
All species combined ^a					
1983					
Weekend	0.0	0.1 ± 0.1	4.4 ± 4.4	7.8 ± 7.0	12.3 ± 8.3
Weekday	0.0	2.4 ± 2.1	5.1 ± 4.6	0.9 ± 0.5	8.5 ± 5.1
1984					
Weekend	0.0	0.0	0.2 ± 0.2	0.0	0.2 ± 0.2
Weekday	0.0	0.4 ± 0.3	0.9 ± 0.5	0.1 ± 0.1	1.3 ± 0.6

^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 (1983-1985).

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year					
Day type					
Atlantic croaker					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
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
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
King mackerel					
1983-84					
Weekend	0.0	0.0	0.0	0.0	0.0
Weekday	0.0	0.0	0.0	0.0	0.0
1984-85					
Weekend	0.0	0.0	0.0	0.5 \pm 0.5	0.5 \pm 0.5
Weekday	0.0	0.0	0.0	0.0	0.0
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

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
	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
Sand seatrout						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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
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
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

Table I.5. (Cont'd.)

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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	1.3 ± 1.3	1.3 ± 1.3
Weekday	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 (1983-1985). 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
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
Cobia					
1983-84	0.00	0.00	<.01 \pm <.01	0.00	<.01 \pm <.01
1984-85		0.00	0.00	0.00	0.00
King mackerel					
1983-84	0.00	0.00	0.34 \pm 0.29	0.06 \pm 0.05	0.20 \pm 0.14
1984-85		0.02 \pm 0.02	0.08 \pm 0.06	0.10 \pm 0.10	0.08 \pm 0.06
Red drum					
1983-84	0.00	0.09 \pm 0.09	0.00	0.00	0.01 \pm 0.01
1984-85		0.00	0.00	0.00	0.00
Red snapper					
1983-84	0.00	0.00	0.00	0.48 \pm 0.44	0.16 \pm 0.14
1984-85		0.00	0.00	0.00	0.00
Sand seatrout					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
Spanish mackerel					
1983-84	0.00	0.00	0.02 \pm 0.02	0.00	0.01 \pm 0.01
1984-85		0.00	0.00	<.01 \pm <.01	<.01 \pm <.01
Spotted seatrout					
1983-84	0.00	0.25 \pm 0.24	0.00	0.00	0.02 \pm 0.01
1984-85		1.59 \pm 1.59	0.00	0.00	0.02 \pm 0.02
Vermilion snapper					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
Other species					
1983-84	0.00	0.32	0.02 \pm 0.02	0.03 \pm 0.03	0.05
1984-85		0.00	0.02 \pm 0.02	0.16 \pm 0.16	0.07 \pm 0.06

Table I.6. (Cont'd.)

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
All species combined ^a					
1983-84	0.00	0.66 ± 0.64	0.38 ± 0.32	0.57 ± 0.52	0.45 ± 0.27
1984-85		1.62 ± 1.60	0.10 ± 0.08	0.27 ± 0.26	0.18 ± 0.12

^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 (1983-1984). Blank = no fishermen interviewed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00
Atlantic sharpnose shark						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	0.00	0.00	0.00
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00
Cobia						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.00	<.01 \pm <.01	0.00	<.01 \pm <.01
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00
King mackerel						
	1983					
	Weekend	0.00	0.00	0.34 \pm 0.34	0.11 \pm 0.11	0.24 \pm 0.22
	Weekday		0.00	0.34 \pm 0.33	0.04 \pm 0.04	0.18 \pm 0.16
	1984					
	Weekend			0.02 \pm 0.02		0.02 \pm 0.02
	Weekday		0.02 \pm 0.02	0.10 \pm 0.09	0.03 \pm 0.03	0.09 \pm 0.08
Red drum						
	1983					
	Weekend	0.00	0.00	0.00	0.00	0.00
	Weekday		0.10 \pm 0.10	0.00	0.00	0.01 \pm 0.01
	1984					
	Weekend			0.00		0.00
	Weekday		0.00	0.00	0.00	0.00

Table I.7. (Cont'd.)

Species	Year	Area				Coastwide
		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
Sand seatrout						
	1983					
Weekend		0.00	0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00	0.00
	1984					
Weekend				0.00		0.00
Weekday			0.00	0.00	0.00	0.00
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
Weekday			0.00	0.00	0.03 ± 0.03	<.01 ± <.01
Spotted seatrout						
	1983					
Weekend		0.00	0.20 ± 0.20	0.00	0.00	<.01 ± <.01
Weekday			0.25 ± 0.25	0.00	0.00	0.03 ± 0.03
	1984					
Weekend				0.00		0.00
Weekday			1.59 ± 1.59	0.00	0.00	0.04 ± 0.04
Vermilion snapper						
	1983					
Weekend		0.00	0.00	0.00	0.00	0.00
Weekday			0.00	0.00	0.00	0.00
	1984					
Weekend				0.00		0.00
Weekday			0.00	0.00	0.00	0.00
Other species						
	1983					
Weekend		0.00	0.27 ± 0.27	0.04 ± 0.04	0.08 ± 0.08	0.05 ± 0.04
Weekday			0.32	0.00	0.01 ± 0.01	0.04
	1984					
Weekend				0.06 ± 0.06		0.06 ± 0.06
Weekday			0.00	0.01 ± 0.01	0.06 ± 0.06	0.02 ± 0.01

Table I.7. (Cont'd.)

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

^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 (1983-1985). Blank = no fishermen interviewed.

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

Table I.8. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red snapper	1983-84	Weekend					
		Weekday					
	1984-85	Weekend				0.00	0.00
		Weekday					
Sand seatrout	1983-84	Weekend					
		Weekday					
	1984-85	Weekend				0.00	0.00
		Weekday					
Spanish mackerel	1983-84	Weekend					
		Weekday					
	1984-85	Weekend				0.00	0.00
		Weekday					
Spotted seatrout	1983-84	Weekend					
		Weekday					
	1984-85	Weekend				0.00	0.00
		Weekday					
Vermilion snapper	1983-84	Weekend					
		Weekday					
	1984-85	Weekend				0.00	0.00
		Weekday					
Other species	1983-84	Weekend					
		Weekday					
	1984-85	Weekend				0.18 ± 0.18	0.18 ± 0.18
		Weekday					

Table I.8. (Cont'd.)

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Year					
Day type					
All species combined ^a					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.30 ± 0.30	0.30 ± 0.30
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 FCZ combined) off Texas during June-August by species and area (1979-1984)^a. Number in parenthesis indicates number of interviews. ND = no data.

Area Year	Atlantic ^b					All species combined
	King mackerel	Red snapper	Spanish mackerel	Cobia	Atlantic ^b sharpnose shark	
Galveston						
1979 (5)	0.17 \pm 0.08	0.05 \pm 0.02	0.20 \pm 0.14	<.01	0.00	0.04
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
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
1983 (1)	0.32 \pm 0.32	0.00	0.06 \pm 0.06	0.00	0.00	0.03
1984 (0)	ND	ND	ND	ND	ND	ND
Matagorda						
1979 (0)	ND	ND	ND	ND	ND	ND
1981 (0)	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
1983 (5)	0.01 \pm 0.01	<.01	0.00	0.00	0.00	0.60
1984 (3)	0.04 \pm 0.04	0.00	0.00	0.00	0.00	0.50
Corpus Christi						
1979 (11)	0.29 \pm 0.07	0.00	0.00	0.01 \pm 0.01	<.01	0.08
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
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
1983 (23)	0.18 \pm 0.14	0.00	<.01	0.00	<.01	0.14
1984 (24)	0.18 \pm 0.10	0.00	0.00	<.01	0.00	0.04
Lower Laguna Madre						
1979 (0)	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
1982 (11)	0.38 \pm 0.17	0.56 \pm 0.38	0.00	0.02 \pm 0.01	0.00	0.09
1983 (14)	0.04 \pm 0.03	0.21 \pm 0.16	0.00	0.00	0.00	0.06
1984 (5)	0.00	0.00	0.00	0.00	0.00	0.10
Coastwide						
1979 (16) ^c	0.25 \pm 0.06	0.02 \pm 0.01	0.09 \pm 0.04	0.01 \pm 0.01	<.01	0.06
1981 (60) ^d	0.37 \pm 0.04	0.11 \pm 0.02	0.02 \pm 0.01	0.01 \pm 0.01	0.03 \pm 0.01	0.14
1982 (72)	0.25 \pm 0.03	0.18 \pm 0.05	0.01 \pm 0.01	0.02 \pm 0.01	0.01 \pm 0.01	0.07
1983 (43)	0.15 \pm 0.10	0.03 \pm 0.02	<.01	0.00	<.01	0.14
1984 (32) ^e	0.16 \pm 0.08	0.00	0.00	<.01	0.00	0.06

^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 (1983-1985). Blank = no fish weighed.

Species Year	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Atlantic croaker					
1983-84					
1984-85					
Atlantic sharpnose shark					
1983-84					
1984-85					
Cobia					
1983-84			19.50		19.50
1984-85					
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
Red drum					
1983-84		2.97			2.97
1984-85					
Red snapper					
1983-84				0.31 \pm 0.01	0.31 \pm 0.01
1984-85					
Sand seatrout					
1983-84					
1984-85					
Spanish mackerel					
1983-84			1.55		1.55
1984-85					
Spotted seatrout					
1983-84		0.95 \pm 0.03			0.95 \pm 0.03
1984-85		1.56			1.56
Vermilion snapper					
1983-84					
1984-85					
All species combined ^a					
1983-84		1.02 \pm 0.14	8.86 \pm 0.93	4.21 \pm 1.39	5.96 \pm 1.03
1984-85		1.50	5.43 \pm 0.25	6.50	5.49 \pm 3.54

^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 (1983-1984). Blank = no fish weighed.

Species	Year	Day type	Area					
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
Atlantic croaker								
	1983							
		Weekend						
		Weekday						
	1984							
		Weekend						
		Weekday						
Atlantic sharpnose shark								
	1983							
		Weekend						
		Weekday						
	1984							
		Weekend						
		Weekday						
Cobia								
	1983							
		Weekend						
		Weekday			19.50		19.50	
	1984							
		Weekend						
		Weekday						
King mackerel								
	1983							
		Weekend			8.30		7.49	8.17
		Weekday			10.09 \pm 1.32		9.39 \pm 0.51	10.02 \pm 1.24
	1984							
		Weekend						
		Weekday			5.46 \pm 0.28			5.46 \pm 0.28
Red drum								
	1983							
		Weekend						
		Weekday			2.97			2.97
	1984							
		Weekend						
		Weekday						
Red snapper								
	1983							
		Weekend					0.31	0.31
		Weekday					0.32	0.32

Table I.11. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red Snapper (cont.)						
	1984					
	Weekend					
	Weekday					
Sand seatrout						
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
Spanish mackerel						
	1983					
	Weekend					
	Weekday			1.55		1.55
	1984					
	Weekend					
	Weekday					
Spotted seatrout						
	1983					
	Weekend		0.97			0.97
	Weekday		0.95 ± 0.03			0.95 ± 0.03
	1984					
	Weekend					
	Weekday		1.56			1.56
Vermilion snapper						
	1983					
	Weekend					
	Weekday					
	1984					
	Weekend					
	Weekday					
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					
	Weekday		1.50	5.43 ± 0.25		4.29 ± 0.61

^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 (1983-1985). Blank = no fish weighed.

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

Table I.12. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Red snapper (cont.)						
	1984-85					
	Weekend					
	Weekday					
Sand seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Spanish mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Spotted seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Vermilion snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
All species combined ^a						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				6.50	6.50
	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 (1983-1985). Blank = no fish measured.

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
	Day type					
Atlantic croaker						
	1983-84					
	1984-85					
Atlantic sharpnose shark						
	1983-84					
	1984-85					
Cobia						
	1983-84			1292		1292
	1984-85					
King mackerel						
	1983-84			984 \pm 23	990 \pm 15	985 \pm 20
	1984-85			840 \pm 11	896	860 \pm 257
Red drum						
	1983-84		651			651
	1984-85					
Red snapper						
	1983-84				287 \pm 4	287 \pm 4
	1984-85					
Sand seatrout						
	1983-84					
	1984-85					
Spanish mackerel						
	1983-84			674		674
	1984-85					
Spotted seatrout						
	1983-84		464 \pm 5			464 \pm 5
	1984-85		547			547
Vermilion snapper						
	1983-84					
	1984-85					
All species combined ^a						
	1983-84		466 \pm 9	958 \pm 35	561 \pm 86	731 \pm 37
	1984-85		547	855 \pm 16	782	781 \pm 310

^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 (1983-1984). Blank = no fish measured.

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Atlantic sharpnose shark							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Cobia							
	1983						
		Weekend					
		Weekday			1292		1292
	1984						
		Weekend					
		Weekday					
King mackerel							
	1983						
		Weekend			963	935	959 \pm 855
		Weekday			1015 \pm 45	1001 \pm 18	1014 \pm 39
	1984						
		Weekend					
		Weekday			840 \pm 11		840 \pm 11
Red drum							
	1983						
		Weekend					
		Weekday			651		651
	1984						
		Weekend					
		Weekday					
Red snapper							
	1983						
		Weekend				283	283
		Weekday				291	291

Table I.14. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red snapper (cont.)							
	1984						
		Weekend					
		Weekday					
Sand seatrout							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Spanish mackerel							
	1983						
		Weekend					
		Weekday		674		674	
	1984						
		Weekend					
		Weekday					
Spotted seatrout							
	1983						
		Weekend		468		468	
		Weekday	464 ±	6		464 ± 6	
	1984						
		Weekend					
		Weekday		547		547	
Vermilion snapper							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
All species combined ^a							
	1983						
		Weekend	523 ±	98	930 ± 330	431	610 ± 373
		Weekday	460 ±	9	1001 ± 78	658 ± 30	809 ± 48
	1984						
		Weekend			1086		1086
		Weekday	547		849 ± 10		762 ± 97

^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 (1983-1985). Blank = no fish measured.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Atlantic sharpnose shark					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Cobia					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
King mackerel					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				896	896
Weekday					
Red drum					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
Red snapper					
1983-84					
Weekend					
Weekday					

Table I.15. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red snapper (Cont.)						
	1984-85					
	Weekend					
	Weekday					
Sand seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Spanish mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Spotted seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Vermilion snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
All species combined ^a						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				782 ± 782	782 ± 782
	Weekday					

^aIncludes "other" species.

Table I.16. Percent composition of "other" species caught by party-boat fishermen in the TTS by area, season and day type (1983 - 1985).

Year Season Day type	Common name	Scientific name	Area					
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
1983-84								
High use								
Weekend	Atlantic bonito	<u>Sarda sarda</u>				55.56	26.32	
	Blue runner	<u>Caranx crysos</u>				11.11	5.26	
	Crevalle jack	<u>Caranx hippos</u>			16.67	33.33	21.05	
	Little tunny	<u>Euthynnus alletteratus</u>			50.00		15.79	
	Sharks sp.							
	Blacktip shark	<u>Garcharhinus limbatus</u>						21.05
	Requiem sharks	Family <u>Garcharhinidae</u>	100.00		33.33			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 littorlis</u>		80.00				57.14
1984-85								
High use								
Weekend	Crevalle jack	<u>Caranx hippos</u>						42.86
	Little tunny	<u>Euthynnus alletteratus</u>				42.86		42.86
	Shark sp.							
	Blacktip shark	<u>Carcharhinus limbatus</u>				14.29		14.29
Weekday	Crevalle jack	<u>Caranx hippos</u>						22.22
	Little tunny	<u>Euthynnus alletteratus</u>				28.57	100.00	22.22
	Shark 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

Table I.17. Percent composition of the annual residential origin of party-boat fishermen in the TTS by area (1983-85). 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				
Matagorda				
1983-84	31	0	69	0
1984-85	100	0	0	0
Corpus Christi				
1983-84	0	6	84	10
1984-85	8	8	56	28
Lower Laguna Madre				
1983-84	15	15	42	27
1984-85	19	0	31	50
Coastwide				
1983-84	14	8	64	14
1984-85	22	5	43	30

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

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries
Galveston						
1983	100	0	0			
1984						
Matagorda						
1983	0	0	0	40	60	0
1984				100	0	0
Corpus Christi						
1983	0	11	0	0	75	25
1984	5	16	0	10	35	55
Lower Laguna Madre						
1983	9	36	0	20	33	47
1984				20	0	80
Coastwide						
1983	9	17	0	19	54	27
1984	5	16	0	32	18	50

Table I.19. Percent composition of the residential origin of party-boat fishermen in the TTS during the low-use season by area and day type (1983-1985). Blank = no fishermen interviewed.

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

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 (1983-1985). 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	Annual	Weekend	Weekday	Annual	Weekend	Weekday	Annual	Weekend	Weekday	Annual
Galveston												
1983-84	2.0		2.0						7.0			7.0
1984-85												
Matagorda												
1983-84	3.0	3.3	3.2	3.3	5.0	4.5	4.5					4.6
1984-85		4.0	4.0			3.0						3.0
Corpus Christi												
1983-84	3.8	3.0	3.4	3.0	8.0	7.5	7.5					7.8
1984-85	4.8	4.0	4.3	4.0	5.8	7.5						6.7
Lower Laguna Madre												
1983-84	3.7	3.8	3.7	3.8	7.3	6.2	6.2		4.5			6.7
1984-85		5.0	5.3	6.0		2.8						3.3
Coastwide												
1983-84	3.5	3.4	3.4	3.4	7.4	6.2	6.2					6.8
1984-85	4.5	4.2	4.5	6.0	5.8	5.4	5.4		4.5			5.5

Appendix J: Estimates for headboat fishing in the Texas Territorial Sea (TTS).

Table J.1. Number of days surveyed and number of headboat fishermen interviewed () in the TTS by season, day type and area (1983-1984). WE = weekend days. WD = weekdays.

Year Season Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1983-84					
High use					
WE	7 (0)	7 (0)	7 (0)	21 (0)	
WD	13 (0)	14 (44)	14 (0)	41 (44)	
Low use					
WE	7 (0)	7 (0)	7 (0)	21 (0)	
WD	13 (0)	14 (0)	14 (0)	41 (0)	
Annual	40 (0)	42 (44)	42 (0)	124 (44)	
1984 ^a					
High use					
WE	5 (0)	4 (176)	4 (0)	13 (176)	
WD	9 (0)	8 (180)	9 (15)	26 (195)	

^aSurveys of headboat fishermen in the Gulf of Mexico were discontinued on 10 September 1984.

Table J.2. Pressure estimates (man-h x 1000) \pm 1 SE for headboat fishermen in the TTS by season, day type and area (1983-1984). ND = no data.

Area Year	High-use season		Low-use season		Annual ^a
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1983-84	0.0	0.0	0.0	0.0	0.0
1984 ^b	0.0	0.0	ND	ND	0.0
Corpus Christi					
1983-84	0.0	2.7 \pm 1.8	0.0	0.0	2.7 \pm 1.8
1984 ^b	11.8 \pm 6.9	50.5 \pm 24.1	ND	ND	62.4 \pm 25.0
Lower Laguna Madre					
1983-84	0.0	0.0	0.0	0.0	0.0
1984 ^b	0.0	4.5 \pm 3.5	ND	ND	4.5 \pm 3.5
Coastwide ^a					
1983-84	0.0	2.7 \pm 1.8	0.0	0.0	2.7 \pm 1.8
1984 ^b	11.8 \pm 6.9	55.0 \pm 24.3	ND	ND	66.9 \pm 25.3

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

^bSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table J.3. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by headboat fishermen in the TTS during the high-use season by species, day type and area (1983-1984).

Species	Year	Area			Coastwide ^a
		Galveston	Corpus Christi	Lower Laguna Madre	
Day type					
Atlantic croaker					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.1 \pm <.1	0.0	0.1 \pm <.1
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Cobia					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
King mackerel					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.1 \pm 0.1	0.0	0.1 \pm 0.1
	1984 ^b				
	Weekend	0.0	0.2 \pm 0.2	0.0	0.2 \pm .02
	Weekday	0.0	3.2 \pm 3.1	0.1 \pm 0.1	3.3 \pm 3.1
Red drum					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0

Table J.3. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
	Day type				
Red snapper					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Sand seatrout					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Spanish mackerel					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Spotted seatrout					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Vermilion snapper					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Other species					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.7	0.0	0.6
	1984 ^b				
	Weekend	0.0	0.1	0.0	0.1
	Weekday	0.0	1.5	0.6	2.0

Table J.3. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
All species combined ^a				
1983				
Weekend	0.0	0.0	0.0	0.0
Weekday	0.0	0.8 ± 0.7	0.0	0.8 ± 0.7
1984 ^b				
Weekend	0.0	0.3 ± 0.3	0.0	0.3 ± 0.3
Weekday	0.0	4.7 ± 4.1	0.6 ± 0.5	5.3 ± 4.1

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

^bSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table J.4. Mean catch rates of fishes (No./man-h) \pm 1 SE caught by headboat fishermen in the TTS during the high-use season by species, day type and area (1983-1984). Blank = no fishermen interviewed.

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker						
	1983	Weekend				
		Weekday		0.0		0.0
	1984 ^a	Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Atlantic sharpnose shark						
	1983	Weekend				
		Weekday		0.02 \pm 0.02		0.02 \pm 0.02
	1984 ^a	Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Cobia						
	1983	Weekend				
		Weekday		0.0		0.0
	1984 ^a	Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
King mackerel						
	1983	Weekend				
		Weekday		0.02 \pm 0.02		0.02 \pm 0.02
	1984 ^a	Weekend		0.02 \pm 0.02		0.02 \pm 0.02
		Weekday		0.06 \pm 0.06	0.01 \pm 0.01	0.06 \pm 0.06
Red drum						
	1983	Weekend				
		Weekday		0.0		0.0
	1984 ^a	Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0

Table J.4. (Cont'd.)

Species	Year	Day type	Area			Coastwide ^a
			Galveston	Corpus Christi	Lower Laguna Madre	
Red snapper						
	1983					
		Weekend				
		Weekday		0.0		0.0
	1984 ^a					
		Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Sand seatrout						
	1983					
		Weekend				
		Weekday		0.0		0.0
	1984 ^a					
		Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Spanish mackerel						
	1983					
		Weekend				
		Weekday		0.0		0.0
	1984 ^a					
		Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Spotted seatrout						
	1983					
		Weekend				
		Weekday		0.0		0.0
	1984 ^a					
		Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Vermilion snapper						
	1983					
		Weekend				
		Weekday		0.0		0.0
	1984 ^a					
		Weekend		0.0		0.0
		Weekday		0.0	0.0	0.0
Other species						
	1983					
		Weekend				
		Weekday		0.24		0.24
	1984 ^a					
		Weekend		<.01		<.01
		Weekday		0.03	0.13	0.04

Table J.4. (Cont'd.)

Species Year Day type	Area			Coastwide ^a
	Galveston	Corpus Christi	Lower Laguna Madre	
All species combined ^b				
1983				
Weekend				
Weekday		0.28 ± 0.27		0.28 ± 0.26
1984 ^a				
Weekend		0.02 ± 0.02		0.02 ± 0.02
Weekday		0.09 ± 0.08	0.14 ± 0.13	0.10 ± 0.08

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

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

Table J.5. Mean weights of fishes (kg/fish) \pm 1 SE caught by headboat fishermen in the TTS during the high-use season by species, day type and area (1983-1984). Blank = no fish weighed.

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker						
	1983					
		Weekend				
		Weekday				
	1984 ^a					
		Weekend				
		Weekday				
Atlantic sharpnose shark						
	1983					
		Weekend				
		Weekday		5.53 \pm 1.22		5.53 \pm 1.22
	1984 ^a					
		Weekend				
		Weekday				
Cobia						
	1983					
		Weekend				
		Weekday				
	1984 ^a					
		Weekend				
		Weekday				
King mackerel						
	1983					
		Weekend				
		Weekday		11.63		11.63
	1984 ^a					
		Weekend		5.90 \pm 0.83		5.90 \pm 0.83
		Weekday		12.56 \pm 0.25	6.84	12.45 \pm 0.38
Red drum						
	1983					
		Weekend				
		Weekday				
	1984 ^a					
		Weekend				
		Weekday				

Table J.5. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red snapper				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
Sand seatrout				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
Spanish mackerel				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
Spotted seatrout				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
Vermilion snapper				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				

Table J.5. (Cont'd.)

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year				
Day type				
All species combined ^b				
1983				
Weekend				
Weekday		9.41 ± 0.40		9.41 ± 0.40
1984 ^a				
Weekend		5.87 ± 0.68		5.87 ± 0.68
Weekday		11.42 ± 1.47	2.13 ± 2.86	10.31 ± 1.64

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

^bIncludes "other" species.

Table J.6. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by headboat fishermen in the TTS during the high-use season by species, day type and area (1983-1984). Blank = no fish measured.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year				
Day type				
Atlantic croaker				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
Atlantic sharpnose shark				
1983				
Weekend				
Weekday		972 \pm 10		972 \pm 10
1984 ^a				
Weekend				
Weekday				
Cobia				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
King mackerel				
1983				
Weekend				
Weekday		1070		1070
1984 ^a				
Weekend		856 \pm 37		856 \pm 37
Weekday		1092 \pm 6	910	1018 \pm 23
Red drum				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				

Table J.6. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red snapper	1983	Weekend				
		Weekday				
	1984 ^a	Weekend				
		Weekday				
Sand seatrout	1983	Weekend				
		Weekday				
	1984 ^a	Weekend				
		Weekday				
Spanish mackerel	1983	Weekend				
		Weekday				
	1984 ^a	Weekend				
		Weekday				
Spotted seatrout	1983	Weekend				
		Weekday				
	1984 ^a	Weekend				
		Weekday				
Vermilion snapper	1983	Weekend				
		Weekday				
	1984 ^a	Weekend				
		Weekday				

Table J.6. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
All species combined ^b					
	1983				
	Weekend				
	Weekday		981 ± 1		981 ± 1
	1984 ^a				
	Weekend		806 ± 39		806 ± 39
	Weekday		1011 ± 15	691 ± 42	975 ± 16

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

^bIncludes "other" species.

Table J.7. Percent composition of "other" species caught by headboat fishermen in the TTS by area, season and day type (1983-1984).

Year Season Day type	Common name	Scientific name	Area				
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide	
1983-84 High use Weekday	Crevalle jack	<u>Caranx hippos</u>		90.48			90.48
	Little tunny	<u>Euthynnus alletteratus</u>		4.76			4.76
	Shark sp. Spinner shark	<u>Carcharhinus brevipinna</u>		4.76			4.76
1984 High use Weekend	Little tunny	<u>Euthynnus alletteratus</u>		100.00			100.00
	Crevalle jack	<u>Caranx hippos</u>		13.33		11.11	16.00
	Little tunny	<u>Euthynnus alletteratus</u>		46.67		88.89	60.00
Weekday	Shark sp. Dusky shark	<u>Carcharhinus obscurus</u>		13.33			8.00
	Sandbar shark	<u>Carcharhinus plumbeus</u>		13.33			8.00
	Tarpon	<u>Magalops atlanticus</u>		13.33			8.00

Table J.8. Percent composition of the annual residential origin of headboat fishermen in the TTS by area (1983-84). Blank = no fishermen interviewed.

Area Year	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston 1983-84 1984 ^a				
Corpus Christi 1983-84 1984 ^a	2 11	2 2	84 72	11 15
Lower Laguna Madre 1983-84 1984 ^a	73	0	13	13
Coastwide 1983-84 1984 ^a	2 14	2 2	84 69	11 15

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table J.9. Percent composition of the residential origin of headboat fishermen in the TTS during the high-use season by area and day type (1983-1984). 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						
	1984						
Corpus Christi	1983						
	1984	18	0	3	2	84	11
Lower Laguna Madre	1983						
	1984				73	0	13
Coastwide	1983						
	1984	18	0	3	2	84	11
					10	3	26

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table J.10. Mean fishing-party size (No. of fishermen) and mean fishing time (h) for headboat fishermen in the TTS by area, season and day type (1983-1984). Blank = no fishermen interviewed.

Area Year ^a	Mean fishing-party size						Mean fishing time						
	High-use season		Low-use season		Annual	Annual	High-use season		Low-use season		Weekend	Weekday	Annual
	Weekend	Weekday	Weekend	Weekday			Weekend	Weekday	Weekend	Weekday			
Galveston													
1983-84													
1984													
Corpus Christi													
1983-84		22.0			22.0					3.5			3.5
1984	88.0	45.0			59.3		2.2			3.9			3.3
Lower Laguna Madre													
1983-84													
1984			7.5		7.5					4.5			4.5
Coastwide													
1983-84													
1984	88.0	32.5			46.4		2.2			4.1			3.6

^aSurveys of headboat fishermen in the Gulf of Mexico were discontinued on 10 September 1984.

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

Table K.1. Number of days surveyed and number of private-boat fishermen interviewed () in the FCZ by season, day type and area (1982-1985). 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)	83 (96)	96 (88)	66 (17)	308 (222)		
	Low use							
	WE	12 (0)	24 (62)	20 (0)	12 (3)	68 (65)		
	WD	24 (0)	40 (10)	41 (0)	24 (0)	129 (10)		
	Annual	131 (122)	192 (366)	202 (321)	133 (78)	658 (887)		
1984-85	High use							
	WE	31 (10)	39 (322)	41 (467)	31 (124)	142 (923)		
	WD	65 (24)	87 (100)	95 (289)	66 (44)	313 (457)		
	Low use							
	WE	12 (0)	19 (22)	21 (0)	12 (8)	64 (30)		
	WD	24 (0)	41 (1)	42 (6)	24 (0)	131 (7)		
	Annual	132 (34)	186 (445)	199 (762)	133 (176)	650 (1417)		

Table K.2. Pressure estimates (man-h x 1000) \pm 1 SE for private-boat fishermen in the FCZ by season, day type and area (1982-1985).

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
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
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
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
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

^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 private-boat fishermen in the FCZ by species and area (1982-1985).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
1983-83	0.1 \pm 0.1	0.1 \pm <.1	0.3 \pm 0.1	0.3 \pm 0.3	0.8 \pm 0.5
1983-84	0.1 \pm 0.1	<.1 \pm <.1	0.0	0.0	0.1 \pm 0.1
1984-85	0.0	0.2 \pm 0.1	<.1 \pm <.1	0.0	0.2 \pm 0.1
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
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
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
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
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
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
Spanish mackerel					
1982-83	1.3 \pm 0.8	0.2 \pm 0.1	0.1 \pm <.1	<.1 \pm <.1	1.7 \pm 0.9
1983-84	0.7 \pm 0.5	0.1 \pm 0.1	0.4 \pm 0.3	<.1 \pm <.1	1.2 \pm 0.5
1984-85	0.5 \pm 0.5	0.1 \pm 0.1	0.1 \pm 0.1	<.1 \pm <.1	0.8 \pm 0.5
Spotted seatrout					
1982-83	0.1 \pm 0.1	0.1 \pm <.1	<.1 \pm <.1	0.0	0.2 \pm 0.2
1983-84	0.0	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1
1984-85	0.0	<.1 \pm <.1	0.0	0.0	<.1 \pm <.1

Table K.3. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Vermilion snapper					
1982-83 ^b					
1983-84	0.0	0.0	<.1 ± <.1	0.0	<.1 ± <.1
1984-85	0.0	0.0	<.1 ± <.1	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
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	17.5 ± 5.8	19.5 ± 7.1	10.0 ± 3.8	54.3 ± 10.6

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

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

Table K.4. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1982-1984).

Species	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
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
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
King mackerel					
1982					
Weekend	1.6 \pm 0.9	3.9 \pm 0.6	2.0 \pm 0.4	0.3 \pm 0.1	7.7 \pm 1.7
Weekday	3.6 \pm 3.3	2.0 \pm 0.3	1.7 \pm 0.3	0.5 \pm 0.4	7.8 \pm 3.5
1983					
Weekend	1.1 \pm 0.8	0.7 \pm 0.3	5.1 \pm 3.4	0.1 \pm 0.1	7.1 \pm 3.5
Weekday	0.1 \pm 0.1	0.4 \pm 0.2	2.4 \pm 2.0	0.1 \pm <.1	3.0 \pm 2.0
1984					
Weekend	0.9 \pm 0.5	0.7 \pm 0.3	2.8 \pm 1.1	0.3 \pm 0.1	4.6 \pm 1.2
Weekday	<.1 \pm <.1	0.6 \pm 0.2	2.7 \pm 1.1	0.2 \pm 0.1	3.5 \pm 1.1

Table K.4. (Cont'd.)

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

Table K.4. (Cont'd.)

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

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

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

Table K.5. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1982-1985).

Species	Area					
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a	
Year						
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
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
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						
Weekday						
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	0.1 \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	0.0

Table K.5. (Cont'd.)

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

Table K.5. (Cont'd.)

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

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

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

Table K.6. Annual mean catch rates of fishes (No./man-h) \pm 1 SE caught by private-boat fishermen in the FCZ by species and area (1982-1985).

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
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
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
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
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
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
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
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
Spotted seatrout					
1982-83	<.01 \pm <.01	<.01 \pm <.01	<.01 \pm <.01	0.00	<.01 \pm <.01
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85	0.00	<.01 \pm <.01	0.00	0.00	<.01 \pm <.01

Table K.6. (Cont'd.)

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

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

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

Table K.7. Mean catch rates of fishes (No./man-h) \pm 1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1982-1984).

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
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
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
King mackerel							
	1982						
		Weekend	0.04 \pm 0.03	0.09 \pm 0.03	0.04 \pm 0.02	0.03 \pm 0.02	0.05 \pm 0.02
		Weekday	0.09 \pm 0.08	0.09 \pm 0.05	0.07 \pm 0.02	0.06 \pm 0.04	0.08 \pm 0.04
	1983						
		Weekend	0.04 \pm 0.03	0.04 \pm 0.02	0.06 \pm 0.05	0.01 \pm 0.01	0.05 \pm 0.03
		Weekday	0.01 \pm 0.01	0.08 \pm 0.06	0.20 \pm 0.18	0.01 \pm 0.01	0.09 \pm 0.07
	1984						
		Weekend	0.04 \pm 0.02	0.07 \pm 0.03	0.07 \pm 0.03	0.03 \pm 0.02	0.05 \pm 0.02
		Weekday	<.01 \pm <.01	0.06 \pm 0.02	0.08 \pm 0.04	0.02 \pm 0.01	0.06 \pm 0.02

Table K.7. (Cont'd.)

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

Table K.7. (Cont'd.)

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

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

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

Table K.8. Mean catch rates of fishes (No./man-h) \pm 1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1982-1985). Blank = no fishermen interviewed.

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Day type						
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
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	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
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 \pm 0.02		0.00	0.02 \pm 0.02
	Weekday		0.00			0.00

Table K.8. (Cont'd.)

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

Table K.8. (Cont'd.)

Species Year Day type	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Spotted seatrout					
1982-83					
Weekend		0.00	0.00		0.00
Weekday	0.00	0.00	0.00		0.00
1983-84					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
1984-85					
Weekend		0.00		0.00	0.00
Weekday		0.00			0.00
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
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
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

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

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

Table K.9. Annual mean weights of fishes (kg/fish) \pm 1 SE caught by private-boat fishermen in the FCZ by species and area (1982-1985). Blank = no 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
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
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
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
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
Red snapper					
1982-83	0.44 \pm 0.22	0.51 \pm 0.14	0.57 \pm 0.15	0.91 \pm 5.60	0.66 \pm 0.82
1983-84	0.45 \pm 0.05	0.82 \pm 0.24	0.56 \pm 0.09	0.66 \pm 0.09	0.56 \pm 0.09
1984-85	0.51 \pm 0.02	0.92 \pm 0.18	0.98 \pm 0.35	0.77 \pm 0.09	0.91 \pm 0.24
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
Spanish mackerel					
1982-83	0.94 \pm 0.09	1.44 \pm 0.17	0.31		1.00 \pm 0.21
1983-84	1.48 \pm 0.24	1.29 \pm 0.09	1.14 \pm 0.15	1.63	1.35 \pm 0.23
1984-85	1.06 \pm 0.02	0.68 \pm 0.10	0.83 \pm 0.09	0.62 \pm 0.62	0.96 \pm 0.06
Spotted seatrout					
1982-83	1.05	0.29			0.40 \pm 0.35
1983-84		.60 \pm 0.26			0.60 \pm 0.26
1984-85		1.73			1.73

Table K.9. (Cont'd.)

Species Year	Area				Coastwide ^a
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Vermilion snapper					
1982-83 ^b					
1983-84			0.24		0.24
1984-85			0.36		0.36
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

^aIncludes "other" species.

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

Table K.10. Mean weights of fishes (kg/fish) \pm 1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1982-1984). Blank = no fish weighed.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year					
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
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
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
King mackerel					
1982					
Weekend	6.04 \pm 2.15	5.42 \pm 0.65	5.44 \pm 0.51	2.92 \pm 0.27	5.46 \pm 0.41
Weekday	5.89 \pm 2.06	6.33 \pm 2.09	5.90 \pm 0.65	3.88 \pm 0.34	6.03 \pm 0.85
1983					
Weekend	6.76 \pm 1.74	8.39 \pm 0.70	10.24 \pm 1.58	3.93	9.39 \pm 1.55
Weekday	8.22 \pm 3.21	12.25 \pm 0.69	8.20 \pm 0.79	6.18 \pm 2.38	8.68 \pm 0.90
1984					
Weekend	7.75 \pm 1.15	8.25 \pm 1.34	7.23 \pm 0.21	5.72 \pm 1.16	7.41 \pm 0.62
Weekday	10.17	7.88 \pm 1.38	7.05 \pm 0.48	7.88 \pm 1.14	7.25 \pm 0.70

Table K.10. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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
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 ± 0.00	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
Sand seatrout							
	1982	Weekend		0.41 ± 0.04	0.18		0.33 ± 0.27
		Weekday		0.40 ± 0.00	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
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

Table K.10. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
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					
Vermilion snapper						
	1982 ^b					
	Weekend					
	Weekday					
	1983					
	Weekend					
	Weekday			0.24		0.24
	1984					
	Weekend					
	Weekday			0.36		0.36
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

^aIncludes "other" species.

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

Table K.11. Mean weights of fishes (kg/fish) \pm 1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1982-1985). Blank = no fish weighed.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year					
Day type					
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					
Atlantic sharpnose shark					
1982-83 ^b					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				7.70	7.70
Weekday					
Cobia					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					
King mackerel					
1982-83					
Weekend					
Weekday					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend					
Weekday					

Table K.11. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
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				
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				
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				
Spanish mackerel						
	1982-83					
		Weekend				
		Weekday				
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				
		Weekday				

Table K.11. (Cont'd.)

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
Spotted seatrout						
	1982-83					
		Weekend				
		Weekday				
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				
		Weekday				
Vermilion snapper						
	1982-83 ^b					
		Weekend				
		Weekday				
	1983-84					
		Weekend				
		Weekday				
	1984-85					
		Weekend				
		Weekday				
All species combined ^a						
	1982-83					
		Weekend		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				

^aIncludes "other" species.

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

Table K.12. Annual mean total lengths of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in the FCZ by species and area (1983-1985). Blank = no 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
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
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
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
Red drum										
1983-84			546 \pm	33					546 \pm	33
1984-85	675		598 \pm	22					635 \pm	217
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
Sand seatrout										
1983-84	332 \pm	0	333 \pm	10					333 \pm	5
1984-85	284 \pm	14	356 \pm	7	338				328 \pm	14
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
Spotted seatrout										
1983-84			393 \pm	60					393 \pm	60
1984-85			566						566	
Vermilion snapper										
1983-84					281				281	
1984-85					319				319	
All species combined ^a										
1983-84	462 \pm	45	507 \pm	70	707 \pm	69	422 \pm	29	515 \pm	47
1984-85	611 \pm	22	539 \pm	28	644 \pm	38	508 \pm	45	581 \pm	29

^aIncludes "other" species.

Table K.13. Mean lengths of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984). Blank = no fish measured.

Species	Area									
	Year	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide ^a
Day type										
Atlantic croaker										
1983										
Weekend		236 \pm	4							236 \pm 4
Weekday										
1984										
Weekend				303 \pm	12	343				311 \pm 68
Weekday				270						270
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
Cobia										
1983										
Weekend		1185 \pm	130	931 \pm	69	1163 \pm	62	1040		1150 \pm 180
Weekday		1144 \pm	199	1090 \pm	280					1139 \pm 189
1984										
Weekend		891		1175 \pm	101	820				1161 \pm 372
Weekday				1290				921		954 \pm 499
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
Red drum										
1983										
Weekend				585 \pm	135					585 \pm 135
Weekday				559 \pm	148					559 \pm 148
1984										
Weekend		675		608 \pm	28					642 \pm 239
Weekday				566						566
Red snapper										
1983										
Weekend		324 \pm	8	305 \pm	29	326 \pm	22	358 \pm	14	329 \pm 11
Weekday		282 \pm	10	398 \pm	35	366		331 \pm	12	302 \pm 15

Table K.13. (Cont'd.)

Species	Area										
	Year	Galveston		Matagorda		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
Day type											
Red snapper (cont.)											
1984											
Weekend		288 ±	2	317 ±	22	327 ±	6	362 ±	13	332 ±	9
Weekday				403 ±	29	398 ±	56	394 ±	11	397 ±	36
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
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
Spotted seatrout											
1983											
Weekend				452						452	
Weekday				333						333	
1984											
Weekend				566						566	
Weekday											
Vermilion snapper											
1983											
Weekend											
Weekday						281				281	
1984											
Weekend											
Weekday						319				319	
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

^aIncludes "other" species.

Table K.14. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by private-boat fishermen in the FCZ during the low-use season by species, day type and area (1983-1985). Blank = no fish measured.

Species	Year	Day type	Area			
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide ^a
Atlantic croaker						
	1983-84					
	Weekend		270			270
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Atlantic sharpnose shark						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				1017	1017
	Weekday					
Cobia						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
King mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend					
	Weekday					
Red drum						
	1983-84					
	Weekend		544 \pm 18			544 \pm 18
	Weekday		498			498
	1984-85					
	Weekend					
	Weekday					
Red snapper						
	1983-84					
	Weekend		371 \pm 1			371 \pm 1
	Weekday		324 \pm 2			324 \pm 2

Table K.14. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red snapper (cont.)							
	1984-85						
		Weekend	372 ±	14		310	358 ± 65
		Weekday					
Sand seatrout							
	1983-84						
		Weekend	324 ±	15			324 ± 15
		Weekday	348				348
	1984-85						
		Weekend	362				362
		Weekday					
Spanish mackerel							
	1983-84						
		Weekend					
		Weekday					
	1984-85						
		Weekend					
		Weekday					
Spotted seatrout							
	1983-84						
		Weekend					
		Weekday					
	1984-85						
		Weekend					
		Weekday					
Vermilion snapper							
	1983-84						
		Weekend					
		Weekday					
	1984-85						
		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

^aIncludes "other" species.

Table K.15. Percent composition of "other" species caught by private-boat fishermen in the FCZ by area, season and day type (1983 - 1985).

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
1983-84	High use	Weekend	Atlantic bonito	<u>Sarda sarda</u>		2.06				0.69
			Atlantic spadefish	<u>Chaetodipterus faber</u>	1.92		1.18			0.69
			Great barracuda	<u>Sphyraena barracuda</u>						0.34
			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
			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
			Greater amberjack	<u>Seriola dumerili</u>	1.92	18.56				6.87
			Gulf kingfish	<u>Menticirrhus littorlis</u>	0.96		2.35			1.03
			Little tunny	<u>Euthynnus alletteratus</u>	0.96		8.24			2.75
			Mackerels sp.	<u>Family Scombridae</u>			2.35			0.69
			Ocellated flounder	<u>Ancylopsetta quadrocellata</u>	0.96					0.34
			Pigfish	<u>Orthopristis chrysoptera</u>			2.35			0.69
			Pinfish	<u>Lagodon rhomboides</u>			2.35			0.69
			Rainbow runner	<u>Elagalis bipinnulata</u>		1.03	1.18			0.69
			Remora sp.	<u>Family Echeneidae</u>	0.96					0.34
			Sailfish	<u>Istiophorus platypterus</u>			2.35			0.69
			Seabasses sp.							
			Rock hind	<u>Epinephelus adscensionis</u>			3.53			1.03
			Rock sea bass	<u>Centropristis philadelphica</u>			10.59			3.09
			Snowy grouper	<u>Epinephelus niveatus</u>			1.18			0.34
			Warsaw grouper	<u>Epinephelus nigritus</u>	0.96	1.03	1.18			0.69
			Sharks sp.							
			Blacktip shark	<u>Carcharhinus limbatus</u>		1.03	1.18		40.00	1.37
			Dusky shark	<u>Carcharhinus obscurus</u>			3.53			1.03
			Requiem sharks	<u>Family Carcharhinidae</u>			15.29			4.47
			Spinner shark	<u>Carcharhinus brevipinna</u>			1.18			0.34
			Sheepshead	<u>Archosargus probatocephalus</u>		15.46				5.15
			Silver seatrout	<u>Cynoscion nothus</u>					40.00	0.69

Table K.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					
					Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide	
			Snapper sp.							
			Gray snapper	<u>Lutjanus griseus</u>			4.71			1.37
			Lane snapper	<u>Lutjanus synagris</u>	6.73		1.18			2.75
			Southern kingfish	<u>Menticirrhus americanus</u>	0.96	11.34				4.12
			Wahoo	<u>Acanthocybium solanderi</u>			3.53			1.03
			Atlantic bonito	<u>Sarda sarda</u>		3.70		36.36		3.95
			Atlantic spadefish	<u>Chaetodipterus faber</u>	42.11					9.04
			Great barracuda	<u>Sphyaena barracuda</u>				9.09		0.56
			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
			Dolphin	<u>Coryphaena hippurus</u>	2.63	44.44	53.19	27.27		36.72
			Gray triggerfish	<u>Balistes capricus</u>		2.47				1.13
			Greater amberjack	<u>Seriola dumerili</u>		8.64				3.95
			Hardhead	<u>Arius felis</u>	2.63					0.56
			Ladyfish	<u>Elops saurus</u>		1.23				0.56
			Little tunny	<u>Euthynnus alletteratus</u>		1.23	21.28			6.21
			Pigfish	<u>Orthopristis chrysoptera</u>		2.63				0.56
			Pinfish	<u>Lagodon rhomboides</u>		2.63				1.13
			Sailfish	<u>Istiophorus platyperus</u>			1.23			0.56
			Seabasses sp.	Family Serranidae			2.13			0.56
			Scamp	<u>Mycteroperca phenax</u>		1.23				0.56
			Warsaw	<u>Epinephelus nigritus</u>	2.63	2.47				1.69
			Shark 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>	7.89	11.11				6.78

Table K.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
Low use Weekend	Snapper sp.							
	Lane snapper	<u>Lutjanus synagus</u>		1.23	2.13			0.56
	Southern flounder	<u>Paralichthys lethostigma</u>						0.56
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
	Seabasses sp.							
	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				
Weekday	Seabasses sp.							
	Warsaw	<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		12.77			7.34
	Barracuda	<u>Sphyraena barracuda</u>	1.59		1.06		3.85	1.36
	Blackfin tuna	<u>Thunnus atlanticus</u>	0.53				19.23	1.63
	Black drum	<u>Pogonius cromis</u>	24.87					13.32
	Bluefish	<u>Pomatomus saltatrix</u>	6.35	3.39				15.49
	Blue runner	<u>Caranx crysos</u>	2.65	76.27			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
	Dolphin	<u>Coryphaena hippurus</u>	16.40	1.69			40.43	21.20
	Gray triggerfish	<u>Balistes capricus</u>	3.70					2.17
	Greater amberjack	<u>Seriola dumerilli</u>	4.23				5.32	3.53
	Harvest fish	<u>Peprilus alepidotus</u>	0.53					1.09

Table K.15. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area					Lower Laguna Madre	Coastwide
					Galveston	Matagorda	Christi	Corpus Christi	Lower Laguna Madre		
			Jacks sp.	Family Carangidae			1.06			0.27	
			Ladyfish	<u>Elops saurus</u>	0.53					0.27	
			Little tunny	<u>Euthynnus alletteratus</u>		1.06			23.08	4.08	
			Pigfish	<u>Orthopristis chrysoptera</u>		1.06				1.36	
			Pinfish	<u>Lagodon rhomboides</u>		0.53				0.27	
			Pompano dolphin	<u>Coryphaena equisetis</u>		2.12				1.09	
			Sailfish	<u>Istiophorus platyperus</u>		0.53			3.85	0.54	
			Seabasses sp.	Family Serranidae		1.06				0.54	
			Red hind	<u>Epinephelus guttatus</u>			1.06			0.27	
			Rock hind	<u>Epinephelus adseuncionis</u>	3.39					0.54	
			Sharks sp.								
			Blacktip shark	<u>Carcharhinus limbatus</u>	1.69	0.53		7.45		2.45	
			Finetooth shark	<u>Carcharhinus isodon</u>		0.53				0.27	
			Requiem sharks	Family Carcharhinidae			2.13			0.54	
			Smalltail shark	<u>Carcharhinus porosus</u>		0.53				0.27	
			Sheepshead	<u>Archosargus probatocephalus</u>	6.78				7.69	1.63	
			Silver seatrout	<u>Cynoscion nothus</u>	5.08	8.47				5.16	
			Snapper sp.								
			Lane snapper	<u>Lutjanus synagris</u>	1.69					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	
			Atlantic bonito	<u>Sarda sarda</u>		16.67				4.09	
			Atlantic spadefish	<u>Chaetodipterus faber</u>	57.14					1.82	
			Great barracuda	<u>Sphyraena barracuda</u>		3.70		0.98		1.36	
			Blackfin tuna	<u>Thunnus atlanticus</u>						3.15	
			Blue fish	<u>Pomatomus saltatrix</u>		1.85				1.75	
			Blue runner	<u>Caranx crysos</u>		3.70				12.28	
			Crevalle jack	<u>Caranx hippos</u>				2.94		1.36	
			Dolphin	<u>Coryphaena hippurus</u>	14.29	27.78		50.00		1.75	30.91

Table K.15. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area					Coastwide
			Galveston	Matagorda	Christi	Lower Laguna Madre		
	Greater amberjack	<u>Seriola dumerili</u>		9.26	19.61		11.36	
	Little tunny	<u>Euthynnus alletteratus</u>	14.29	5.56	11.76	19.30	12.27	
	Pompano dolphin	<u>Coryphaena equisetis</u>		12.96		1.75	3.64	
	Rainbow runner	<u>Elagatis bipinnulata</u>		12.96			3.18	
	Seabasses 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>Sphynna lewini</u>				1.75	0.45	
	Sheepshead	<u>Archosargus probatocephalus</u>	14.29				0.45	
	Silver seatrout	<u>Cynoscion nothus</u>				52.63	13.64	
	Snapper sp.							
	Lane snapper	<u>Lutjanus synagrus</u>					0.45	
	Southern flounder	<u>Paralichthys lethostigma</u>				3.51	5.45	
	Tarpon	<u>Megalops atlanticus</u>					0.45	
	Tontate	<u>Haemulon aurolineastum</u>					0.45	
Low use								
Weekend	Atlantic bonita	<u>Sarda sarda</u>		1.54			1.43	
	Black drum	<u>Pogonius cromis</u>		18.46			17.14	
	Dolphin	<u>Coryphaena hippurus</u>		78.46			72.86	
	Gray triggerfish	<u>Balistes capricus</u>				40.00	2.86	
	Seabasses sp.							
	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	

Table K.16. Percent composition of the annual residential origin of private-boat fishermen in the FCZ by area (1982-85).

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
Matagorda				
1982-83	65	24	11	0
1983-84	32	24	41	3
1984-85	49	17	33	0
Corpus Christi				
1982-83	39	33	27	1
1983-84	20	31	45	3
1984-85	18	17	62	2
Lower Laguna Madre				
1982-83	82	6	12	0
1983-84	45	8	45	3
1984-85	72	4	14	10
Coastwide				
1982-83	64	19	17	0
1983-84	36	22	39	3
1984-85	38	17	44	1

^aPrior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table K.17. Percent composition of the residential origin of private-boat fishermen in the FCZ during the high use season by area and day type (1982-1985).

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	100	0	0
1983-84	84	0	4	100	0	0
1984-85	90	10	0	100	0	0
Matagorda						
1982-83	46	30	0	47	35	18
1983-84	30	30	2	34	10	49
1984-85	45	16	0	65	14	20
Corpus Christi						
1982-83	22	21	1	33	12	54
1983-84	21	36	3	17	19	56
1984-85	21	17	0	14	17	64
Lower Laguna Madre						
1982-83	94	6	0	70	5	24
1983-84	47	10	3	29	0	71
1984-85	81	5	2	52	0	12
Coastwide						
1982-83	47	20	0	46	18	35
1983-84	37	25	2	33	13	49
1984-85	40	16	0	34	16	46

^aPrior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table K.18. Percent composition of the residential origin of private-boat fishermen in the FCZ during the low-use season by area and day type (1982-1985). Blank = no fishermen interviewed.

Area ^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				100	0	0
1982-83						
1983-84						
1984-85						
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
Corpus Christi						
1982-83	100	0	0	100	0	0
1983-84						
1984-85						
Lower Laguna Madre						
1982-83						
1983-84	100	0	0			
1984-85	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

^aPrior to May 1983 all fishermen in a fishing party were assigned to the boat owner's residence.

Table K.19. Mean fishing-party size (No. of fishermen) and mean trip length (h) for private-boat fishermen in the FCZ by area, season and day type (1982-1985). 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	Annual	Weekend	Weekday	Annual	Weekend	Weekday	Annual	Weekend	Weekday	Annual
Galveston												
1982-83	3.0	3.5	3.1	1.7		3.1	8.1	7.2	8.2			7.0
1983-84	3.2	2.6				3.0	9.1	9.5				9.2
1984-85	3.3	2.4				3.0	7.0	7.1				7.0
Matagorda												
1982-83	3.2	3.1	2.6	2.6	3.1	3.1	7.9	8.8	7.9	7.6	7.9	8.1
1983-84	3.2	3.0	3.1	2.5	3.1	3.1	7.6	8.2	8.2	6.6	8.2	7.6
1984-85	3.1	2.5	2.9	2.9	2.8	2.8	8.0	6.5	5.4	5.6	5.4	7.1
Corpus Christi												
1982-83	3.2	3.2	3.0	2.5	3.2	3.2	7.0	7.2	6.3	11.5		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
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	10.0			7.8
1984-85	3.5	2.8	2.7		3.3	3.3	7.8	6.8	7.5			7.5
Coastwide												
1982-83	3.2	3.2	2.7	2.4	3.2	3.2	7.4	7.8	8.1	8.1	7.7	7.6
1983-84	3.2	2.9	3.1	2.5	3.1	3.1	8.0	7.9	6.8	6.8	8.2	7.9
1984-85	3.4	3.0	2.7	1.0	3.2	3.2	7.4	7.1	7.0	7.0	4.0	7.3

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

Table L.1. Number of days surveyed and number of party-boat fishermen interviewed () in the FCZ by season, day type and area (1983-1985). WE = weekend days. WD = weekdays.

Year	Season	Day type	Area					Coastwide
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre		
1983-84	High use							
	WE	32 (10)	45 (4)	45 (35)	31 (17)	153 (66)		
	WD	63 (0)	83 (6)	96 (33)	66 (18)	308 (57)		
	Low use							
	WE	12 (0)	24 (0)	20 (0)	12 (0)	68 (0)		
	WD	24 (0)	40 (0)	41 (0)	24 (0)	129 (0)		
	Annual	131 (10)	192 (10)	202 (68)	133 (35)	658 (123)		
1984-85	High use							
	WE	31 (0)	39 (6)	41 (35)	31 (5)	142 (46)		
	WD	65 (0)	87 (0)	95 (33)	66 (19)	313 (52)		
	Low use							
	WE	12 (0)	19 (0)	21 (0)	12 (7)	64 (7)		
	WD	24 (0)	41 (0)	42 (0)	24 (0)	131 (0)		
	Annual	132 (0)	186 (6)	199 (68)	133 (31)	650 (105)		

Table L.2. Pressure estimates (man-h x 1000) \pm 1 SE for party-boat fishermen in the FCZ by season, day type and area (1983-1985).

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
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
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
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
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

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

Table L.3. Annual estimated landings of fishes (No. x 1000) \pm 1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1985).

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
1983-84	0.0	0.0	0.4 \pm 0.4	0.0	0.4 \pm 0.4
1984-85	0.0	0.0	0.0	0.0	0.0
Cobia					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	<.1 \pm <.1	0.0	<.1 \pm <.1
King mackerel					
1983-84	1.6 \pm 1.6	0.1 \pm 0.1	11.7 \pm 5.6	0.2 \pm 0.1	13.5 \pm 7.4
1984-85	0.0	<.1 \pm <.1	4.2 \pm 2.2	<.1 \pm <.1	4.2 \pm 4.2
Red drum					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Red snapper					
1983-84	0.0	<.1 \pm <.1	0.0	3.3 \pm 2.0	3.3 \pm 2.0
1984-85	0.0	0.0	0.0	0.2 \pm 0.2	0.2 \pm 0.2
Sand seatrout					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Spanish mackerel					
1983-84	0.3 \pm 0.3	0.0	0.2 \pm 0.2	0.0	0.5 \pm 0.3
1984-85	0.0	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1
Spotted seatrout					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Vermilion snapper					
1983-84	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0
Other species					
1983-84	0.2 \pm 0.2	<.1 \pm <.1	14.8 \pm 12.1	0.8 \pm 0.4	15.8 \pm 12.1
1984-85	0.0	<.1 \pm <.1	0.8 \pm 0.3	1.4 \pm 0.9	2.1 \pm 1.0

Table L.3. (Cont'd.)

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

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

Table L.4. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984).

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

Table L.4. (Cont'd.)

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

Table L.4. (Cont'd.)

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

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

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

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Day type						
Atlantic croaker						
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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
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
King mackerel						
1983-84						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
1984-85						
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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

Table L.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
	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
Sand seatrout						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
Spanish mackerel						
	1983-84					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
	1984-85					
	Weekend	0.0	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0	0.0
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
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
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

Table L.5. (Cont'd.)

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

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

Table L.6. Annual mean catch rates of fishes (No./man-h) \pm 1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1985). 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
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
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
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
Red drum					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		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
Sand seatrout					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	0.00	0.00	0.00
Spanish mackerel					
1983-84	0.03 \pm 0.03	0.00	<.01 \pm <.01	0.00	<.01 \pm <.01
1984-85		0.00	0.00	<.01 \pm <.01	<.01 \pm <.01
Spotted seatrout					
1983-84	0.00	0.00	0.00	0.00	0.00
1984-85		0.00	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
Other species					
1983-84	0.03 \pm 0.02	<.01 \pm <.01	0.15 \pm 0.13	0.14 \pm 0.10	0.14 \pm 0.11
1984-85		0.06 \pm 0.06	0.04 \pm 0.02	0.16 \pm 0.13	0.07 \pm 0.04

Table L.6. (Cont'd.)

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
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
1984-85		0.11 ± 0.11	0.23 ± 0.14	0.20 ± 0.15	0.22 ± 0.11

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

Table L.7. Mean catch rates of fishes (No./man-h) \pm 1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984). Blank = no fishermen interviewed.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Year					
Day type					
Atlantic croaker					
1983					
Weekend	0.00	0.00	0.00	0.00	0.00
Weekday		0.00	0.00	0.00	0.00
1984					
Weekend		0.00	0.00	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	<.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
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
King mackerel					
1983					
Weekend	0.19 \pm 0.19	0.00	0.09 \pm 0.09	<.01 \pm <.01	0.11 \pm 0.09
Weekday		0.14 \pm 0.14	0.12 \pm 0.10	0.04 \pm 0.03	0.12 \pm 0.09
1984					
Weekend		0.05 \pm 0.05	0.06 \pm 0.04	0.21 \pm 0.21	0.06 \pm 0.04
Weekday			0.49 \pm 0.36	0.00	0.29 \pm 0.21
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

Table L.7. (Cont'd.)

Species	Year	Area				Coastwide
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
Day type						
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	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	0.00
	Weekday			0.00	0.00	0.00
Spanish mackerel						
	1983					
	Weekend	0.03 ± 0.03	0.00	0.01 ± 0.01	0.00	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
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
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
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

Table L.7. (Cont'd.)

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

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

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

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Atlantic sharpnose shark						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Cobia						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
King mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Red drum						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					

Table L.8. (Cont'd.)

Species	Year	Area				
		Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Sand seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Spanish mackerel						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Spotted seatrout						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Vermilion snapper						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.00	0.00
	Weekday					
Other species						
	1983-84					
	Weekend					
	Weekday					
	1984-85					
	Weekend				0.24 ± 0.24	0.24 ± 0.24
	Weekday					

Table L.8. (Cont'd.)

Species Year Day type	Area				Coastwide
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	
All species combined ^a					
1983-84					
Weekend					
Weekday					
1984-85					
Weekend				0.24 ± 0.24	0.24 ± 0.24
Weekday					

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

Table L.9. Annual mean weights of fishes (kg/fish) \pm 1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1985). Blank = no fish weighed.

Species Year	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84					
1984-85					
Atlantic sharpnose shark					
1983-84					
1984-85					
Cobia					
1983-84					
1984-85					
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
Red drum					
1983-84					
1984-85					
Red snapper					
1983-84		2.12		0.68	0.69 \pm 0.69
1984-85				1.01	1.01
Sand seatrout					
1983-84					
1984-85					
Spanish mackerel					
1983-84	1.01		1.12 \pm 0.05		1.06 \pm 0.59
1984-85				1.04	1.04
Spotted seatrout					
1983-84					
1984-85					
Vermilion snapper					
1983-84					
1984-85					
All species combined^a					
1983-84	7.20 \pm 7.20	12.50 \pm 12.50	15.17 \pm 7.14	1.56 \pm 1.04	12.92 \pm 6.38
1984-85		7.70 \pm 7.70	10.93 \pm 1.19	2.70 \pm 2.70	8.91 \pm 1.61

^aIncludes "other" species.

Table L.10. Mean weights of fishes (kg/fish) \pm 1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984). Blank = no fish weighed.

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre Coastwide	
Atlantic croaker							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Atlantic sharpnose shark							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Cobia							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
King mackerel							
	1983						
		Weekend	9.33		8.56 \pm 0.42	10.67	8.94 \pm 4.76
		Weekday		14.24	10.19 \pm 0.60	4.84 \pm 0.46	10.10 \pm 0.68
	1984						
		Weekend		7.76	7.07	4.83	6.98 \pm 6.98
		Weekday			10.74 \pm 1.92		10.74 \pm 1.92
Red drum							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Red snapper							
	1983						
		Weekend				0.68	0.68
		Weekday		2.12			2.12

Table L.10. (Cont'd.)

Species	Area					
	Year	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Day type						
Red snapper (cont'd.)						
1984						
Weekend					1.01	1.01
Weekday						
Sand seatrout						
1983						
Weekend						
Weekday						
1984						
Weekend						
Weekday						
Spanish mackerel						
1983						
Weekend	1.01		1.12 ± 0.05			1.06 ± 0.59
Weekday						
1984						
Weekend					1.04	1.04
Weekday						
Spotted seatrout						
1983						
Weekend						
Weekday						
1984						
Weekend						
Weekday						
Vermilion snapper						
1983						
Weekend						
Weekday						
1984						
Weekend						
Weekday						
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	

^aIncludes "other" species.

Table L.11. Annual mean total lengths of fishes (mm/fish) \pm 1 SE caught by party-boat fishermen in the FCZ by species and area (1983-1985). Blank = no fish measured.

Species Year Day type	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Atlantic croaker					
1983-84					
1984-85					
Atlantic sharpnose shark					
1983-84					
1984-85					
Cobia					
1983-84					
1984-85					
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
Red drum					
1983-84					
1984-85					
Red snapper					
1983-84		530		354	357 \pm 177
1984-85				407	407
Sand seatrout					
1983-84					
1984-85					
Spanish mackerel					
1983-84	578		603 \pm 8		588 \pm 227
1984-85				588	588
Spotted seatrout					
1983-84					
1984-85					
Vermilion snapper					
1983-84					
1984-85					
All species combined ^a					
1983-84	738 \pm 236	768 \pm 363	970 \pm 67	421 \pm 65	867 \pm 105
1984-85		756 \pm 756	868 \pm 8	614 \pm 16	806 \pm 14

^aIncludes "other" species.

Table L.12. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by party-boat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984). Blank = no fish measured.

Species	Area				
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Year					
Day type					
Atlantic croaker					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
Atlantic sharpnose shark					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
Cobia					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
King mackerel					
1983					
Weekend	974		960 \pm 15	1051	965 \pm 448
Weekday		1136	1010 \pm 20	805 \pm 20	1007 \pm 25
1984					
Weekend		941	918	812	914 \pm 871
Weekday			1024 \pm 69		1024 \pm 69
Red drum					
1983					
Weekend					
Weekday					
1984					
Weekend					
Weekday					
Red snapper					
1983					
Weekend				354	354
Weekday		530			530

Table L.12. (Cont'd.)

Species	Year	Day type	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
Red snapper (cont'd.)							
	1984						
		Weekend				407	407
		Weekday					
Sand seatrout							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Spanish mackerel							
	1983						
		Weekend	578		603 ± 8		588 ± 227
		Weekday					
	1984						
		Weekend				588	588
		Weekday					
Spotted seatrout							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
Vermilion snapper							
	1983						
		Weekend					
		Weekday					
	1984						
		Weekend					
		Weekday					
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 ± 756	914 ± 914	628 ± 628	857 ± 130
		Weekday			862 ± 3	567 ± 29	827 ± 6

^aIncludes "other" species.

Table L.13. Percent composition of "other" species caught by party-boat fishermen in the FCZ by area, season and day type (1983 - 1985).

Year Season Day type	Common name	Scientific name	Area				
			Galveston	Matagorda	Corpus Christi	Lower Laguna Madre	Coastwide
1983-84 High use Weekend	Atlantic bonito	<u>Sarda sarda</u>				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
	Dolphin	<u>Coryphaena hippurus</u>			13.04		8.33
Little tunny	<u>Euthynnus alletteratus</u>	50.00		47.83		33.33	
Weekday	Atlantic bonito	<u>Sarda sarda</u>		100.00		80.00	53.19
	Bluefish	<u>Pomatomus saltatrix</u>			6.25		2.13
	Crevalle jack	<u>Caranx hippos</u>				3.33	2.13
	Dolphin	<u>Coryphaena hippurus</u>				3.33	2.13
	Little tunny	<u>Euthynnus alletteratus</u>			12.50	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
	Dolphin	<u>Coryphaena hippurus</u>		100.00	28.57	100.00	64.29
	Smallmouth buffalo	<u>Ictiobus bubalus</u>			14.29		7.14
Weekday	Crevalle jack	<u>Caranx hippos</u>			6.67		4.35
	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 L.14. Percent composition of the annual residential origin of party-boat fishermen in the FCZ by area (1983-85). 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				
Matagorda				
1983-84	30	20	50	0
1984-85	0	100	0	0
Corpus Christi				
1983-84	4	13	66	16
1984-85	9	24	60	7
Lower Laguna Madre				
1983-84	17	26	57	0
1984-85	26	0	61	13
Coastwide				
1983-84	18	16	57	9
1984-85	13	21	57	9

Table L.15. Percent composition of the residential origin of party-boat fishermen in the FCZ during the high-use season by area and day type (1983-1984). Blank = no fishermen interviewed.

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries
Galvestion						
1983	100	0	0			
1984						
Matagorda						
1983	25	0	0	33	33	0
1984	0	100	0			
Corpus Christi						
1983	6	9	14	3	18	18
1984	3	26	3	15	21	12
Lower Laguna Madre						
1983	12	24	0	22	28	0
1984	20	0	0	21	0	0
Coastwide						
1983	23	11	8	12	23	11
1984	4	33	2	17	13	8

Table L.16. Percent composition of the residential origin of party-boat fishermen in the FCZ during the low-use season by area and day type (1983-1985). Blank = no fishermen interviewed.

Area Year	Weekend			Weekday		
	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/ countries
Galveston						
1983-84						
1984-85						
Matagorda						
1983-84						
1984-85						
Corpus Christi						
1983-84						
1984-85						
Lower Laguna Madre						
1983-84						
1984-85	43	0	57			
Coastwide						
1983-84						
1984-85	43	0	57			

Table L.17. Mean fishing-party size (No. of fishermen) and mean trip length (h) for party-boat fishermen in the FCZ by area, season and day type (1983-1985). 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	5.0			5.0	8.0			8.0
1984-85								
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
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
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
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

Appendix M: Estimates for headboat fishing in the Fishery Conservation Zone (FCZ) off Texas.

Table M.1. Number of days surveyed and number of headboat fishermen interviewed () in the FCZ by season, day type and area (1983-1984). WE = weekend days. WD = weekdays.

Year Season Day type	Area			
	Galveston	Matagorda	Corpus Christi	Lower Laguna Madre
1983-84				
High use				
WE	7 (322)	7 (223)	7 (76)	21 (631)
WD	13 (610)	14 (269)	14 (71)	41 (950)
Low use				
WE	7 (235)	7 (180)	7 (97)	21 (512)
WD	13 (178)	14 (182)	14 (162)	41 (522)
Annual	40(1355)	42 (854)	42 (406)	124(2615)
1984 ^a				
High use				
WE	5 (299)	4 (58)	4 (88)	13 (445)
WD	9 (355)	8 (132)	9 (132)	26 (619)

^aSurveys of headboat fishermen in the Gulf of Mexico were discontinued on 10 September 1984.

Table M.2. Pressure estimates (man-h x 1000) \pm 1 SE for headboat fishermen in the FCZ by season, day type and area (1983-1984). ND = no data.

Area Year	High-use season		Low-use season		Annual ^a
	Weekend	Weekday	Weekend	Weekday	
Galveston					
1983-84	58.7 \pm 13.7	44.8 \pm 7.2	10.0 \pm 3.6	4.9 \pm 2.4	118.4 \pm 16.1
1984 ^b	58.2 \pm 3.7	54.7 \pm 13.2	ND	ND	112.9 \pm 13.7
Corpus Christi					
1983-84	19.3 \pm 6.1	34.1 \pm 8.3	7.6 \pm 1.5	8.4 \pm 2.4	69.4 \pm 10.7
1984 ^b	60.6 \pm 35.0	72.2 \pm 31.8	ND	ND	132.8 \pm 47.3
Lower Laguna Madre					
1983-84	1.8 \pm 0.9	2.3 \pm 1.5	1.1 \pm 0.4	2.6 \pm 0.9	7.8 \pm 2.0
1984 ^b	14.4 \pm 2.4	12.7 \pm 4.2	ND	ND	27.2 \pm 4.8
Coastwide ^a					
1983-84	79.8 \pm 15.0	81.2 \pm 11.1	18.7 \pm 4.0	15.9 \pm 3.5	195.6 \pm 19.4
1984 ^b	133.2 \pm 35.3	139.6 \pm 34.7	ND	ND	272.8 \pm 49.5

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

^bSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table M.3. Estimated landings of fishes (No. x 1000) \pm 1 SE caught by headboat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984).

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
	1983				
	Weekend	0.1 \pm 0.1	<.1 \pm <.1	<.0 \pm <.01	0.2 \pm 0.1
	Weekday	0.1 \pm 0.1	<.1 \pm <.1	0.0	0.1 \pm 0.1
	1984 ^b				
	Weekend	0.0	0.0	<.1 \pm <.1	<.1 \pm <.1
	Weekday	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
	1983				
	Weekend	0.2 \pm 0.2	0.0	0.0	0.2 \pm 0.2
	Weekday	1.3 \pm 0.6	3.0 \pm 2.3	0.0	4.3 \pm 2.4
	1984 ^b				
	Weekend	0.0	1.8 \pm 1.2	0.5 \pm 0.5	2.2 \pm 1.3
	Weekday	0.3 \pm 0.2	0.3 \pm 0.3	0.2 \pm 0.1	0.8 \pm 0.4
Cobia					
	1983				
	Weekend	0.1 \pm 0.1	0.0	0.0	0.1 \pm 0.1
	Weekday	0.2 \pm 0.1	<.1 \pm <.1	0.0	0.2 \pm 0.1
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.1 \pm 0.1	0.0	0.0	0.1 \pm 0.1
King mackerel					
	1983				
	Weekend	0.5 \pm 0.3	0.0	0.0	0.5 \pm 0.3
	Weekday	1.2 \pm 0.5	1.4 \pm 0.6	<.1 \pm <.1	2.6 \pm 0.8
	1984 ^b				
	Weekend	0.6 \pm 0.4	0.5 \pm 0.3	0.0	1.1 \pm 0.5
	Weekday	0.5 \pm 0.3	5.0 \pm 3.7	0.0	5.5 \pm 3.7
Red drum					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0

Table M.3. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red snapper					
	1983				
	Weekend	93.4 ± 36.8	16.3 ± 8.6	4.3 ± 2.1	114.0 ± 37.9
	Weekday	40.7 ± 9.7	12.3 ± 5.8	10.2 ± 7.0	63.2 ± 13.3
	1984 ^b				
	Weekend	142.0 ± 37.1	0.0	34.4 ± 8.5	176.4 ± 38.1
	Weekday	72.3 ± 25.5	1.6 ± 1.6	33.7 ± 14.0	107.6 ± 29.1
Sand seatrout					
	1983				
	Weekend	0.7 ± 0.7	0.0	0.0	0.7 ± 0.7
	Weekday	2.6 ± 2.6	<.1 ± <.1	0.0	2.7 ± 2.6
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.1 ± 0.1	0.0	0.2 ± 0.2	0.3 ± 0.3
Spanish mackerel					
	1983				
	Weekend	<.1 ± <.1	0.0	0.0	<.1 ± <.1
	Weekday	0.2 ± 0.1	0.0	0.0	0.2 ± 0.1
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Spotted seatrout					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^b				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Vermilion snapper					
	1983				
	Weekend	32.5 ± 20.2	8.1 ± 4.2	0.1 ± 0.1	40.6 ± 20.7
	Weekday	8.7 ± 3.4	5.9 ± 3.9	0.1 ± 0.1	14.7 ± 5.2
	1984 ^b				
	Weekend	44.7 ± 13.4	0.0	<.1 ± <.1	44.8 ± 13.4
	Weekday	27.6 ± 11.5	17.9 ± 17.9	2.4 ± 2.4	47.9 ± 21.4
Other species					
	1983				
	Weekend	12.5	4.4	0.3	17.2
	Weekday	12.0	3.4	<1.1	15.4
	1984 ^b				
	Weekend	28.3	2.0	1.6	32.0
	Weekday	13.4	9.4	0.5	23.3

Table M.3. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
	Day type				
All species combined ^a					
	1983				
	Weekend	140.0 ± 44.6	28.8 ± 14.1	4.7 ± 2.2	173.5 ± 46.8
	Weekday	67.0 ± 11.8	26.0 ± 8.9	10.3 ± 7.0	103.4 ± 16.3
	1984 ^b				
	Weekend	215.7 ± 40.8	4.3 ± 2.5	36.6 ± 8.7	256.6 ± 41.8
	Weekday	114.3 ± 34.5	34.1 ± 22.2	37.0 ± 14.3	185.4 ± 43.4

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

^bSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table M.4. Mean catch rates of fishes (No./man-h) \pm SE caught by headboat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984).

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker					
	1983				
	Weekend	<.01 \pm <.01	<.01 \pm <.01	0.0	<.01 \pm <.01
	Weekday	<.01 \pm <.01	<.01 \pm <.01	0.0	<.01 \pm <.01
	1984 ^a				
	Weekend	0.0	0.0	<.01 \pm <.01	0.0
	Weekday	0.0	0.0	0.0	0.0
Atlantic sharpnose shark					
	1983				
	Weekend	<.01 \pm <.01	0.0	0.0	<.01 \pm <.01
	Weekday	0.03 \pm 0.01	0.09 \pm 0.07	0.0	0.01 \pm <.01
	1984 ^a				
	Weekend	0.0	0.03 \pm 0.02	0.03 \pm .03	0.02 \pm 0.01
	Weekday	<.01 \pm <.01	<.01 \pm <.01	0.02 \pm .01	<.01 \pm <.01
Cobia					
	1983				
	Weekend	<.01 \pm <.01	0.0	0.0	<.01 \pm <.01
	Weekday	<.01 \pm <.01	<.01 \pm <.01	0.0	<.01 \pm <.01
	1984 ^a				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	<.01 \pm <.01	0.0	0.0	0.0
King mackerel					
	1983				
	Weekend	0.01 \pm <.01	0.0	0.0	<.01 \pm <.01
	Weekday	0.03 \pm 0.01	0.04 \pm 0.02	0.01 \pm 0.01	.01 \pm <.01
	1984 ^a				
	Weekend	0.01 \pm 0.01	0.01 \pm 0.01	0.0	<.01 \pm <.01
	Weekday	0.01 \pm <.01	0.07 \pm 0.06	0.0	0.04 \pm 0.03
Red drum					
	1983				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
	1984 ^a				
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0

Table M.4. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red snapper					
1983					
	Weekend	1.59 ± 0.71	0.84 ± 0.50	2.42 ± 1.60	1.43 ± 0.54
	Weekday	0.90 ± 0.26	0.36 ± 0.19	4.53 ± 3.76	0.78 ± 0.19
1984 ^a					
	Weekend	2.44 ± 0.66	0.0	2.39 ± 0.70	1.32 ± 0.45
	Weekday	1.32 ± 0.55	0.02 ± 0.22	2.64 ± 1.35	0.77 ± 0.28
Sand seatrout					
1983					
	Weekend	0.01 ± 0.01	0.0	0.0	<.01 ± <.01
	Weekday	0.06 ± 0.06	<.01 ± <.01	0.0	<.01 ± <.01
1984 ^a					
	Weekend	0.0	0.0	0.0	0.0
	Weekday	<.01 ± <.01	0.0	0.2 ± 0.2	<.01 ± <.01
Spanish mackerel					
1983					
	Weekend	0.0	0.0	0.0	0.0
	Weekday	<.01 ± <.01	0.0	0.0	<.01 ± <.01
1984 ^a					
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Spotted seatrout					
1983					
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
1984 ^a					
	Weekend	0.0	0.0	0.0	0.0
	Weekday	0.0	0.0	0.0	0.0
Vermilion snapper					
1983					
	Weekend	0.55 ± 0.36	0.42 ± 0.24	0.04 ± 0.04	0.51 ± 0.27
	Weekday	0.19 ± 0.08	0.17 ± 0.12	0.03 ± 0.03	0.18 ± 0.07
1984 ^a					
	Weekend	0.77 ± 0.23	0.0	<.01 ± <.01	0.34 ± 0.13
	Weekday	0.51 ± 0.24	0.25 ± 0.25	0.19 ± 0.19	0.34 ± 0.17
Other species					
1983					
	Weekend	0.21	0.22	0.18	0.21
	Weekday	0.27	0.10	0.01	0.19
1984 ^a					
	Weekend	0.49	0.03	0.11	0.24
	Weekday	0.25	0.13	0.04	0.17

Table M.4. (Cont'd)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
All species combined ^b				
1983				
Weekend	2.39 ± 0.93	1.49 ± 0.84	2.64 ± 1.73	2.17 ± 0.70
Weekday	1.50 ± 0.36	0.76 ± 0.31	4.58 ± 3.79	1.27 ± 0.26
1984 ^a				
Weekend	3.71 ± 0.74	0.07 ± 0.05	2.54 ± 0.73	1.93 ± 0.59
Weekday	2.09 ± 0.79	0.47 ± 0.35	2.91 ± 1.43	1.33 ± 0.45

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

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

Table M.5. Mean weights of fishes (kg/fish) \pm 1 SE caught by headboat fishermen in the FCZ during the high-season by species, day type and area (1983-1984). Blank = no fish weighed.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker				
1983				
Weekend	0.48	0.36		0.45 \pm 0.45
Weekday		0.70		0.70
1984 ^a				
Weekend				
Weekday				
Atlantic sharpnose shark				
1983				
Weekend	5.88			5.88
Weekday	3.84 \pm 0.55	6.13 \pm 0.34		5.44 \pm 0.40
1984 ^a				
Weekend		3.89 \pm 1.03	6.85	4.50 \pm 2.23
Weekday	4.82	6.37	7.75 \pm 0.32	6.12 \pm 4.14
Cobia				
1983				
Weekend	11.23			11.23
Weekday	9.71 \pm 3.49	8.16		9.54 \pm 4.01
1984 ^a				
Weekend				
Weekday	3.33			3.33
King mackerel				
1983				
Weekend	7.08 \pm 3.78			7.08 \pm 3.78
Weekday	8.20 \pm 1.05	7.94 \pm 0.82	6.72	8.05 \pm 0.98
1984 ^a				
Weekend	6.83 \pm 0.70	13.40 \pm 1.93		9.73 \pm 1.24
Weekday	8.18 \pm 1.72	13.22 \pm 4.38		12.80 \pm 4.15
Red drum				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				

Table M.5. (Cont'd.)

Species	Year	Area			
		Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Red snapper					
	1983				
	Weekend	0.40 ± 0.02	0.55 ± 0.08	0.51 ± 0.08	0.42 ± 0.03
	Weekday	0.43 ± 0.05	0.56 ± 0.13	0.41 ± 0.01	0.45 ± 0.06
	1984 ^a				
	Weekend	0.50 ± 0.06		0.44 ± 0.04	0.49 ± 0.06
	Weekday	0.39 ± 0.03	0.77	0.52 ± 0.06	0.44 ± 0.05
Sand seatrout					
	1983				
	Weekend	0.35			0.35
	Weekday	0.27	0.48		0.27 ± 0.27
	1984 ^a				
	Weekend				
	Weekday	0.25		0.22	0.23 ± 0.23
Spanish mackerel					
	1983				
	Weekend	0.86			0.86
	Weekday	1.02 ± 0.10			1.02 ± 0.10
	1984 ^a				
	Weekend				
	Weekday				
Spotted seatrout					
	1983				
	Weekend				
	Weekday				
	1984 ^a				
	Weekend				
	Weekday				
Vermilion snapper					
	1983				
	Weekend	0.15 ± 0.01	0.35 ± 0.03	0.35	0.19 ± 0.02
	Weekday	0.16 ± 0.01	0.41 ± 0.03	0.27	0.26 ± 0.02
	1984 ^a				
	Weekend	0.22 ± 0.03		0.10	0.22 ± 0.03
	Weekday	0.13 ± 0.01	0.26	0.63	0.20 ± 0.13

Table M.5. (Cont'd.)

Species Year Day type	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
All species combined ^b				
1983				
Weekend	0.43 ± 0.07	0.57 ± 0.08	0.49 ± 0.10	0.45 ± 0.07
Weekday	0.61 ± 0.14	1.58 ± 0.61	0.43 ± 0.03	0.83 ± 0.25
1984 ^a				
Weekend	0.50 ± 0.06	6.22 ± 0.40	0.73 ± 0.25	0.62 ± 0.09
Weekday	0.41 ± 0.04	1.72 ± 1.53	0.68 ± 0.04	0.70 ± 0.31

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

^bIncludes "other" species.

Table M.6. Annual mean total lengths of fishes (mm/fish) \pm 1 SE caught by headboat fishermen in the FCZ by species and area (1983-1984). Blank = no fish measured.

Species Year	Area				Coastwide
	Galveston	Corpus Christi	Lower Laguna Madre		
Atlantic croaker					
1983-84	327	293 \pm 4	300	312 \pm 72	
1984 ^b					
Atlantic sharpnose shark					
1983-84	860 \pm 28	971 \pm 11	970 \pm 13	925 \pm 18	
1984 ^b	895	858 \pm 51	997 \pm 11	893 \pm 109	
Cobia					
1983-84	1049 \pm 83	1035 \pm 33		1046 \pm 67	
1984 ^b	760			760 \pm 760	
King mackerel					
1983-84	928 \pm 34	942 \pm 29	905	934 \pm 37	
1984 ^b	917 \pm 23	1095 \pm 103		1065 \pm 49	
Red drum					
1983-84		614 \pm 13		614 \pm 13	
1984 ^b					
Red snapper					
1983-84	298 \pm 3	346 \pm 10	328 \pm 7	309 \pm 4	
1984 ^b	310 \pm 8	376	323 \pm 7	313 \pm 8	
Sand seatrout					
1983-84	297 \pm 5	318 \pm 5	419	303 \pm 10	
1984 ^b	289		275	280 \pm 104	
Spanish mackerel					
1983-84	577 \pm 16			577 \pm 16	
1984 ^b					
Spotted seatrout					
1983-84					
1984 ^b					
Vermilion snapper					
1983-84	243 \pm 4	314 \pm 5	313 \pm 17	258 \pm 4	
1984 ^b	255 \pm 12	285	368 \pm 2	296 \pm 63	
All species combined ^a					
1983-84	308 \pm 7	388 \pm 14	345 \pm 11	326 \pm 8	
1984 ^b	318 \pm 16	458 \pm 93	345 \pm 13	335 \pm 19	

^aIncludes "other" species.

^bSurveys of headboats fishing in the Gulf of Mexico were discontinued 10 September 1984.

Table M.7. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by headboat fishermen in the FCZ during the high-use season by species, day type and area (1983-1984). Blank = no fish measured.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Year				
Day type				
Atlantic croaker				
1983				
Weekend	327	302		319 \pm 254
Weekday		372		372
1984 ^a				
Weekend				
Weekday				
Atlantic sharpnose shark				
1983				
Weekend	945			945
Weekday	823 \pm 39	951 \pm 17		912 \pm 14
1984 ^a				
Weekend		827 \pm 68	985	861 \pm 213
Weekday	895	967	1019 \pm 12	953 \pm 539
Cobia				
1983				
Weekend	1118			1118
Weekday	1035 \pm 101	1010		1030 \pm 181
1984 ^a				
Weekend				
Weekday	760			760
King mackerel				
1983				
Weekend	889 \pm 160			889 \pm 160
Weekday	934 \pm 33	942 \pm 29	905	938 \pm 38
1984 ^a				
Weekend	893 \pm 27	1129 \pm 53		1000 \pm 27
Weekday	951 \pm 63	1091 \pm 124		1078 \pm 62
Red drum				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				

Table M.7. (Cont'd.)

Species	Area							
	Galveston		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
Year								
Day type								
Red snapper								
1983								
Weekend	301 ±	6	330 ±	5	325 ±	16	306 ±	6
Weekday	300 ±	8	327 ±	28	307 ±	2	306 ±	9
1984 ^a								
Weekend	319 ±	9			312 ±	6	318 ±	7
Weekday	294 ±	7	376		331 ±	10	307 ±	10
Sand seatrout								
1983								
Weekend	320						320	
Weekday	293		354				294 ±	291
1984 ^a								
Weekend								
Weekday	289				275		280 ±	155
Spanish mackerel								
1983								
Weekend		552					552	
Weekday	581 ±	19					581 ±	19
1984 ^a								
Weekend								
Weekday								
Spotted seatrout								
1983								
Weekend								
Weekday								
1984 ^a								
Weekend								
Weekday								
Vermilion snapper								
1983								
Weekend	243 ±	6	310 ±	7	308		256 ±	7
Weekday	247 ±	5	326 ±	6	289		279 ±	7
1984 ^a								
Weekend	267 ±	12			217		267 ±	12
Weekday	232 ±	6	285		370		259 ±	122

Table M.7. (Cont'd.)

Species Year Day type	Area							
	Galveston		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
All species combined ^b								
1983								
Weekend	305 ±	11	371 ±	7	340 ±	27	317 ±	11
Weekday	326 ±	17	445 ±	51	310 ±	4	354 ±	22
1984 ^a								
Weekend	329 ±	22	900 ±	74	337 ±	26	340 ±	20
Weekday	299 ±	10	437 ±	85	351 ±	14	335 ±	20

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

^bIncludes "other" species.

Table M.8. Mean total lengths of fishes (mm/fish) \pm 1 SE caught by headboat fishermen in the FCZ during the low-use season by species, day type and area (1983-1984). Blank = no fish measured.

Species	Area			
	Galveston	Corpus Christi	Lower Laguna Madre	Coastwide ^a
Atlantic croaker				
1983				
Weekend		307		307
Weekday		288 \pm 5	300	288 \pm 12
1984 ^a				
Weekend				
Weekday				
Atlantic sharpnose shark				
1983				
Weekend	842 \pm 73	1034	970 \pm 25	852 \pm 77
Weekday	951 \pm 18	983 \pm 2	971 \pm 6	980 \pm 4
1984 ^a				
Weekend				
Weekday				
Cobia				
1983				
Weekend				
Weekday		1043 \pm 51		1043 \pm 51
1984 ^a				
Weekend				
Weekday				
King mackerel				
1983				
Weekend				
Weekday				
1984 ^a				
Weekend				
Weekday				
Red drum				
1983				
Weekend		641		641
Weekday		606		606
1984 ^a				
Weekend				
Weekday				

Table M.8. (Cont'd.)

Species	Area							
	Galveston		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
Year								
Day type								
Red snapper								
1983								
Weekend	299 ±	4	372 ±	17	335 ±	8	306 ±	5
Weekday	292 ±	4	367 ±	15	339 ±	15	327 ±	8
1984 ^a								
Weekend								
Weekday								
Sand seatrout								
1983								
Weekend	283 ±	22	318 ±	16			307 ±	10
Weekday	321		317		419		326 ±	301
1984 ^a								
Weekend								
Weekday								
Spanish mackerel								
1983								
Weekend								
Weekday								
1984 ^a								
Weekend								
Weekday								
Spotted seatrout								
1983								
Weekend								
Weekday								
1984 ^a								
Weekend								
Weekday								
Vermilion snapper								
1983								
Weekend	237 ±	5	314		299		237 ±	6
Weekday	237 ±	6	303 ±	17	356		276 ±	19
1984 ^a								
Weekend								
Weekday								

Table M.8. (Cont'd.)

Species Year Day type	Area							
	Galveston		Corpus Christi		Lower Laguna Madre		Coastwide ^a	
All species combined ^b								
1983								
Weekend	293 ±	6	352 ±	20	353 ±	14	310 ±	7
Weekday	399 ±	8	385 ±	28	365 ±	22	332 ±	15
1984 ^a								
Weekend								
Weekday								

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

^bIncludes "other" species.

Table M.9. Percent composition of "other" species caught by headboat fishermen in the FCZ by area, season and day type (1983-1984).

Year Season Day type	Common name	Scientific name	Area				Coastwide
			Galveston	Corpus Christi	Lower Laguna Madre		
1983-84 High use Weekend	Almaco jack	<u>Seriola rivoliana</u>		2.99		1.06	
	Atlantic spadefish	<u>Chaetodipterus faber</u>	19.76	1.20		10.99	
	Bigeye	<u>Priacanthus arenatus</u>	1.58	0.60		1.06	
	Black drum	<u>Pogonias cromis</u>		1.20		0.42	
	Bluefish	<u>Pomatomus saltatrix</u>	0.79	0.60		0.63	
	Blue runner	<u>Caranx crysos</u>	2.77	2.40		2.33	
	Burro grunt	<u>Pomadasyς crocro</u>			5.66	0.63	
	Crevalle jack	<u>Caranx hippos</u>	0.40			0.21	
	Dolphin	<u>Coryphaena hippurus</u>	0.79			0.42	
	Gray triggerfish	<u>Balistes capriscus</u>	14.62	2.40		8.67	
	Greater amberjack	<u>Seriola dumerili</u>	10.67	65.87	7.55	29.81	
	Knobbed porgy	<u>Colamus nodosus</u>	1.58	1.80	1.89	1.69	
	Pigfish	<u>Orthopristis chrysoptera</u>		1.80		0.63	
	Pinfish	<u>Lagodon rhomboides</u>	1.58	0.60		1.06	
	Seabasses sp.						
	Graysby	<u>Epinephelus cruentatus</u>	0.79			0.42	
	Rockhind	<u>Epinephelus adscensionis</u>	0.40			0.21	
	Scamp	<u>Mycteroperca phenax</u>	5.14	2.40	7.55	4.44	
	Warsaw	<u>Epinephelus nigritus</u>	0.79	0.60	5.66	1.27	
	Yellowedge grouper	<u>Epinephelus flavolimbatus</u>			54.72	6.13	
	Sharks sp.						
	Smooth dogfish	<u>Mustelus canis</u>		3.59		1.27	
	Sandbar shark	<u>Carcharhinus plumbeus</u>			5.66	0.63	
Silky shark	<u>Carcharhinus falciformis</u>		0.60		0.21		
Silver seatrout	<u>Cynoscion nothus</u>	0.40		1.89	0.42		
Snappers sp.							
Gray snapper	<u>Lutjanus griseus</u>	0.79			0.42		
Lane snapper	<u>Lutjanus synagris</u>	20.55	5.39	5.66	13.53		
Southern flounder	<u>Paralichthys lethostigma</u>	0.79			0.42		
Squirrelfish	<u>Holocentrus ascensionis</u>	0.79	4.79		2.11		

Table M.9. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				Lower Laguna Madre
			Galveston	Corpus Christi	Coastwide		
	Tilefish	<u>Lopholatilus</u>				3.77	0.42
		<u>chamaeleonticeps</u>					8.46
	Tomtate	<u>Haemulon aurolineatum</u>	15.02	1.20			
	Almaco jack	<u>Seriola rivoliana</u>		2.48			0.24
	Atlantic bonito	<u>Sarda sarda</u>	0.18	1.65			0.32
	Atlantic spadefish	<u>Chaetodipterus faber</u>	0.63				0.57
	Bigeye	<u>Priacanthus arenatus</u>	4.35				3.89
	Bluefish	<u>Pomatomus saltatrix</u>	17.77	2.48			16.13
	Blue runner	<u>Caranx crysos</u>	4.53	8.26			4.86
	Creolefish	<u>Paranthias furcifer</u>	1.00	0.83			0.97
	Crevalle jack	<u>Caranx hippos</u>	0.09	7.44			0.81
	Dolphin	<u>Coryphaena hippurus</u>	3.63	1.65	40.00		3.73
	Gray triggerfish	<u>Balistes capricus</u>	9.07	7.44	10.00		8.91
	Greater amberjack	<u>Seriola dumerili</u>	7.16	35.54	10.00		9.97
	Hardhead catfish	<u>Arius felis</u>	1.00				0.89
	Knobbed porgy	<u>Calamus nodosus</u>	1.99	0.83			1.86
	Lefteye flounder sp.	<u>Family Bothidae</u>	0.36				0.32
	Little tunny	<u>Euthynnus alletteratus</u>	0.36	0.83			0.41
	Ocellated flounder	<u>Ancylorsetta quadrocellata</u>	0.36				0.32
	Pigfish	<u>Orthopristis chrysoptera</u>	1.09	1.65			1.13
	Pinfish	<u>Lagodon rhomboides</u>	0.36	0.83			0.41
	Remora	<u>Remora remora</u>	0.09				0.08
	Seabasses sp.						
	Graysby	<u>Epinephelus cruentatus</u>	0.18				0.16
	Redgrouper	<u>Epinephelus norio</u>	0.09				0.08
	Red hind	<u>Epinephelus gutatus</u>	0.09				0.08
	Rock hind	<u>Epinephelus adscensionis</u>	0.73	0.83			0.73
	Rock sea bass	<u>Centropristis philadelphica</u>	0.08	1.65			0.32
	Scamp	<u>Mycteroperca phenax</u>	1.72	3.31			1.86
	Warshaw	<u>Epinephelus nigritus</u>	0.27			10.00	0.32
	Sharks sp.						
	Blacktip shark	<u>Carcharhinus limbatus</u>		1.65			0.16
	Smooth dogfish	<u>Mustelus canis</u>		1.65			0.16

Table M.9. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				Coastwide
			Galveston	Corpus Christi	Lower Laguna Madre		
	Requiem sharks	Family Carcharhinidae		7.44		0.73	
	Scalloped hammerhead	<u>Sphyrna lewini</u>	0.83			0.08	
	Silky shark	<u>Carcharhinus falciformis</u>		1.65		0.16	
	Snapper sp.						
	Dog snapper	<u>Lutjanus jocu</u>	0.63	0.83		0.65	
	Gray snapper	<u>Lutjanus griseus</u>			20.00	0.16	
	Lane snapper	<u>Lutjanus synagris</u>	38.26	4.96	10.00	34.76	
	Southern flounder	<u>Paralichthys lethostigma</u>	0.09	0.83		0.16	
	Spotted scorpionfish	<u>Scorpaena plumieri</u>	0.09			0.08	
	Squirrel fish	<u>Holocentrus ascensionis</u>	0.45	2.48		0.65	
	Stingrays sp.	Family Dasyatidae	0.09			0.08	
	Tomtate	<u>Haemulon aurolineatum</u>	2.99			2.67	
	Whitebone porgy	<u>Calamus leucosteus</u>	0.09			0.08	
Low use	Atlantic moonfish	<u>Selene setapinnis</u>	1.22			0.34	
Weekend	Atlantic spadefish	<u>Chaetodipterus faber</u>		40.31		26.19	
	Bearded brotula	<u>Brotula barbata</u>			4.76	0.34	
	Black drum	<u>Pogonias cromis</u>		1.05		0.68	
	Blue fish	<u>Pomatomus saltatrix</u>		0.52		0.34	
	Dwarf sand perch	<u>Diplectrum bivittatum</u>		4.19		2.72	
	Gray triggerfish	<u>Balistes capricus</u>	9.76	2.62		4.42	
	Greater amberjack	<u>Seriola dumerili</u>	1.22			0.34	
	Knobbed porgy	<u>Calamus nodosus</u>	10.98		14.29	4.08	
	Little tunny	<u>Euthynnus alletteratus</u>		4.71		3.06	
	Ocellated flounder	<u>Ancyloperca quadrocellata</u>	1.22			0.34	
	Pigfish	<u>Orthopristis chrysoptera</u>	3.66	37.70	4.76	25.85	
	Pinfish	<u>Lagodon rhomboides</u>	14.63	4.19		6.80	
	Rainbow runner	<u>Elagatis bipinnulata</u>	1.22			0.34	
	Seabasses sp.						
	Bank sea bass	<u>Centropistis ocyurus</u>	2.44			0.68	
	Black grouper	<u>Mycteroperca bonaci</u>			9.52	0.68	
	Gag	<u>Mycteroperca microlepis</u>			4.76	0.34	
	Red hind	<u>Epinephelus guttatus</u>	1.22			0.34	

Table M.9. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area				
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide	
	Rock hind	<u>Epinephelus adscensionis</u>		0.52	19.05	1.70	
	Rock sea bass	<u>Centropristis philadelphica</u>		2.62		1.70	
	Scamp	<u>Mycteroperca phenax</u>	7.32		9.52	2.72	
	Warsaw grouper	<u>Epinephelus nigritus</u>	2.44	1.05	14.29	2.38	
	Shark sp.						
	Blacktip shark	<u>Carcharhinus limbates</u>			9.52	0.68	
	Scalloped hammerhead	<u>Sphyrna lewini</u>	1.22		9.52	1.02	
	Silver seatrout	<u>Cynoscion nothus</u>	2.44			0.68	
	Snapper sp.						
	Lane snapper	<u>Lutjanus synagris</u>	18.29			5.10	
	Southern flounder	<u>Paralichthys lethostigma</u>		0.52		0.34	
	Tomtate	<u>Haemulon aurolineatum</u>	20.73			5.78	
Weekday	Atlantic spadefish	<u>Chaetodipterus faber</u>		65.24		42.41	
	Bigeye	<u>Priacanthus arenatus</u>	1.19			0.31	
	Black drum	<u>Pogonias cromis</u>		0.95		0.62	
	Blue fish	<u>Pomatomus saltatrix</u>	1.19	0.48		0.62	
	Crevalle jack	<u>Caranx hippos</u>		0.95		0.62	
	Gray triggerfish	<u>Balistes capricus</u>	36.90	1.43	6.90	11.15	
	Greater amberjack	<u>Seriola dumerili</u>		0.95		0.62	
	Knobbed porgy	<u>Calamus nodosus</u>	1.19		10.34	1.24	
	Little tunny	<u>Euthynnus alletteratus</u>		1.43		0.93	
	Pigfish	<u>Orthopristis chrysoptera</u>	7.14	8.10		7.12	
	Pinfish	<u>Lagodon rhomboides</u>	1.19	1.43		1.24	
	Seabasses sp.						
	Black grouper	<u>Mycteroperca bonaci</u>			17.24	1.55	
	Gag	<u>Mycteroperca microlepis</u>	1.19	0.95		0.93	
	Rock hind	<u>Epinephelus adscensionis</u>	1.19		6.90	0.93	
	Rock sea bass	<u>Centropristis philadelphica</u>	3.57	6.67	3.45	5.57	
	Scamp	<u>Mycteroperca phenax</u>	1.19		13.79	1.55	
	Warsaw	<u>Epinephelus nigritus</u>	4.76	0.95	13.79	3.10	
	Yellowedge grouper	<u>Epinephelus flavolimbatus</u>			3.45	0.31	
	Sharks sp.						

Table M.9. (Cont'd.)

Year	Season	Day type	Common name	Scientific name	Area				Coastwide
					Calveston	Christi	Lower Laguna Madre		
			Dusky shark	<u>Carcharhinus obscurus</u>			10.34	0.93	
			Scalloped hammerhead	<u>Sphyrna lewini</u>			6.90	0.62	
			Silver seatrout	<u>Cynoscion nothus</u>	16.67	10.48		11.15	
			Snapper sp.						
			Gray snapper	<u>Lutjanus griseus</u>			6.90	0.62	
			Lane snapper	<u>Lutjanus synagris</u>	11.90			3.10	
			Southern flounder	<u>Paralichthys lethostegina</u>	1.19			0.31	
			Squirrel fish	<u>Holocentrus ascensionis</u>	1.19			0.31	
			Tomtate	<u>Haemulon aurolineatum</u>	8.33			2.17	
1984									
	High use		Almaco jack	<u>Seriola rivoliana</u>	0.18			0.17	
	Weekend		Atlantic bonito	<u>Sarda sarda</u>	0.18	12.50		0.34	
			Bigeye	<u>Priacanthus arenatus</u>	0.55			0.51	
			Blackfin tuna	<u>Thunnus atlanticus</u>	0.18			0.17	
			Black margate	<u>Anisotremus surinamensis</u>			2.38	0.17	
			Blue fish	<u>Pomatomus saltatrix</u>	1.10			1.01	
			Blue runner	<u>Caranx crysos</u>			7.14	0.51	
			Chub mackerel	<u>Scomber japonicus</u>	1.84			1.68	
			Crevalle jack	<u>Caranx hippos</u>		25.00		0.34	
			Dolphin	<u>Coryphaena hippurus</u>	0.37			0.34	
			Gray triggerfish	<u>Balistes capricus</u>	9.74			9.09	
			Greater amberjack	<u>Seriola dumerili</u>	14.52			13.30	
			Hairy blenny	<u>Labrisomus nuchipinnis</u>	0.18			0.17	
			Knobbed porgy	<u>Calamus nodosus</u>	2.57			5.22	
			Little tunny	<u>Euthynnus alletteratus</u>			40.48	0.67	
			Longspine porgy	<u>Stenotomus caprinus</u>	0.37			0.34	
			Ocellated flounder	<u>Ancylopsetta quadrocellata</u>	0.18			0.17	
			Ocellated frogfish	<u>Antennigobius ocellatus</u>	0.18				
			Pinfish	<u>Lagodon rhomboides</u>	1.29				
			Seabasses sp.						
			Black grouper	<u>Mycteroperca bonaci</u>				4.76	
			Gag	<u>Mycteroperca microlepis</u>				11.90	

Table M.9. (Cont 'd.)

Year	Season	Day type	Common name	Scientific name	Area			
					Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
			Graysby	<u>Epinephelus cruentatus</u>	0.37			0.34
			Red grouper	<u>Epinephelus morio</u>	0.37			0.34
			Rock hind	<u>Epinephelus adscensionis</u>	2.02		9.52	2.53
			Rock sea bass	<u>Centropristis philadelphica</u>	0.37		2.38	0.51
			Scamp	<u>Mycteroperca phenax</u>	3.49		4.76	3.54
			Sharks sp.					
			Blacktip shark	<u>Carcharhinus limbatus</u>		12.50		0.17
			Smooth dogfish	<u>Mustelus canis</u>	4.41			4.04
			Scalloped hammerhead	<u>Sphyrna lewini</u>			7.14	0.51
			Snapper sp.					
			Gray snapper	<u>Lutjanus griseus</u>	0.18		4.76	0.51
			Lane snapper	<u>Lutjanus synagris</u>	50.37			46.13
			Southern flounder	<u>Paralichthys lethostigma</u>			2.38	0.17
			Squirrelfish	<u>Holocentrus ascensionis</u>	0.55			0.51
			Tomtate	<u>Haemulon aurolineatum</u>	4.41			4.04
			Atlantic bonita	<u>Sarda sarda</u>	0.55			0.45
			Atlantic spadefish	<u>Chaetodipterus faber</u>	14.07			12.74
			Bigeye	<u>Priacanthus arenatus</u>	3.87		4.76	3.41
			Blue runner	<u>Caranx crysos</u>			9.52	0.45
			Creole fish	<u>Paranthias furcifer</u>	0.28			0.23
			Crevalle jack	<u>Caranx hippos</u>	0.28	35.09	4.76	5.00
			Dolphin	<u>Coryphaena hippurus</u>	0.28			0.23
			Gray triggerfish	<u>Balistes capriscus</u>	12.71		4.76	10.68
			Greater amberjack	<u>Seriola dumerili</u>	15.75		4.76	15.91
			Knobbed porgy	<u>Calamus nodosus</u>	0.55			0.45
			Little tunny	<u>Euthynnus alletteratus</u>	0.28		28.07	3.86
			Ocellated flounder	<u>Ancylopsetta guadrocellata</u>	0.28			0.23
			Pigfish	<u>Orthopristis chrysoptera</u>	1.10			0.91
			Pinfish	<u>Lagodon rhomboides</u>	0.55			0.45
			Pompano dolphin	<u>Coryphaena equisetis</u>	1.10			0.91
			Porgies sp.	Family Sparidae	1.93			1.59
			Seabasses sp.	Family Serranidae	0.28			0.23
			Black grouper	<u>Mycteroperca bonaci</u>			4.76	0.23
			Red hind	<u>Epinephelus guttatus</u>	0.55			0.45

Table M.9. (Cont'd.)

Year Season Day type	Common name	Scientific name	Area			
			Galveston	Corpus Christi	Lower Laguna Madre	Coastwide
	Rock hind	<u>Epinephelus adscensions</u>	1.10		9.52	1.36
	Rock sea bass	<u>Centropristis philadelphica</u>			4.76	0.23
	Scamp	<u>Mycteroperca phenax</u>	1.66	14.04		3.18
	Warsaw	<u>Epinephelus nigritus</u>	0.83		4.76	0.91
	Yellowedge grouper	<u>Epinephelus flavolimbatus</u>			14.29	0.68
	Sharks sp.					
	Blacktip shark	<u>Carcharhinus limbatus</u>		1.75		0.23
	Smooth dogfish	<u>Mustelus canis</u>	0.28			0.23
	Great hammerhead	<u>Sphyrna mokarran</u>	0.28			0.23
	Requiem sharks	<u>Family Carcharhinidae</u>	0.28			0.23
	Scalloped hammerhead	<u>Sphyrna lewini</u>			4.76	0.23
	Silky shark	<u>Carcharhinus falciformis</u>		23.81	1.14	
	Snapper sp.					
	Dog snapper	<u>Lutjanus jocu</u>	0.28			0.23
	Gray snapper	<u>Lutjanus griseus</u>	0.55			0.45
	Lane snapper	<u>Lutjanus synagris</u>	32.32			26.59
	Southern flounder	<u>Paralichthys lethostigma</u>	0.55			0.45
	Squirrel fishes sp.	<u>Family Holocentridae</u>	0.55			0.45
	Tomtate	<u>Haemulon aurolineatum</u>	6.91		4.76	5.91

Table M.10. Percent composition of the annual residential origin of headboat fishermen (percent) in the FCZ by area (1983-84).

Area Year	Adjacent coastal counties	Non-adjacent coastal counties	Non-coastal counties	Other states and countries
Galveston				
1983-84	57	2	30	10
1984 ^a	62	4	23	10
Corpus Christi				
1983-84	7	5	66	22
1984 ^a	7	7	70	16
Lower Laguna Madre				
1983-84	31	1	27	42
1984 ^a	29	10	38	23
Coastwide				
1983-84	37	3	41	19
1984 ^a	45	6	35	14

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table M.11. Percent composition of the residential origin of headboat fishermen in the FCZ during the high-use season by area and day type (1983-1984).

Area	Year	Weekend			Weekday			Other states/ countries	Other states/ countries
		Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries	Adjacent coastal counties	Non-adjacent coastal counties	Other states/countries		
Galveston									
	1983	65	2	8	51	3	33	13	
	1984 ^a	79	6	3	48	3	33	16	
Corpus Christi									
	1983	6	8	7	7	8	61	23	
	1984 ^a	2	9	17	9	7	69	15	
Lower Laguna Madre									
	1983	21	3	13	20	4	41	35	
	1984 ^a	50	5	15	14	14	43	28	
Coastwide									
	1983	39	4	8	36	4	42	18	
	1984 ^a	63	6	7	33	6	43	18	

^aSurveys of headboats fishing in the Gulf of Mexico were discontinued on 10 September 1984.

Table M.12. Percent composition of the residential origin of headboat fishermen in the FCZ during the low-use season by area and day type (1983-1984).

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	73	1	23	4	43	1	39	16
Corpus Christi 1983-84	7	3	76	14	9	1	47	44
Lower Laguna Madre 1983-84	46	0	16	37	30	0	10	60
Coastwide 1983-84	45	1	40	14	27	1	33	39

Table M.13. Mean fishing-party size (No. of fishermen) and mean fishing time (h) for headboat fishermen in the FCZ by area, season and day type (1983-1984). Blank = no fishermen interviewed.

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	55.3	50.8	47.0	35.6	48.4	4.0	3.0	3.8	3.6
1984 ^a	59.8	50.7			54.5	3.1	3.0		3.0
Corpus Christi									
1983-84	44.6	22.4	25.7	16.6	24.4	3.3	2.6	3.5	3.2
1984 ^a	29.0	33.0			31.7	4.2	4.8		4.6
Lower Laguna Madre									
1983-84	25.3	17.8	24.2	23.2	22.6	8.8	6.2	7.2	7.4
1984 ^a	22.0	26.4			24.4	4.2	3.4		3.8
Coastwide									
1983-84	45.1	33.9	32.0	22.7	32.3	3.7	2.9	3.6	3.5
1984 ^a	40.5	38.7			39.4	3.7	3.6		3.6

^aSurveys of headboat fishermen in the Gulf of Mexico were discontinued on 10 September 1984.

