

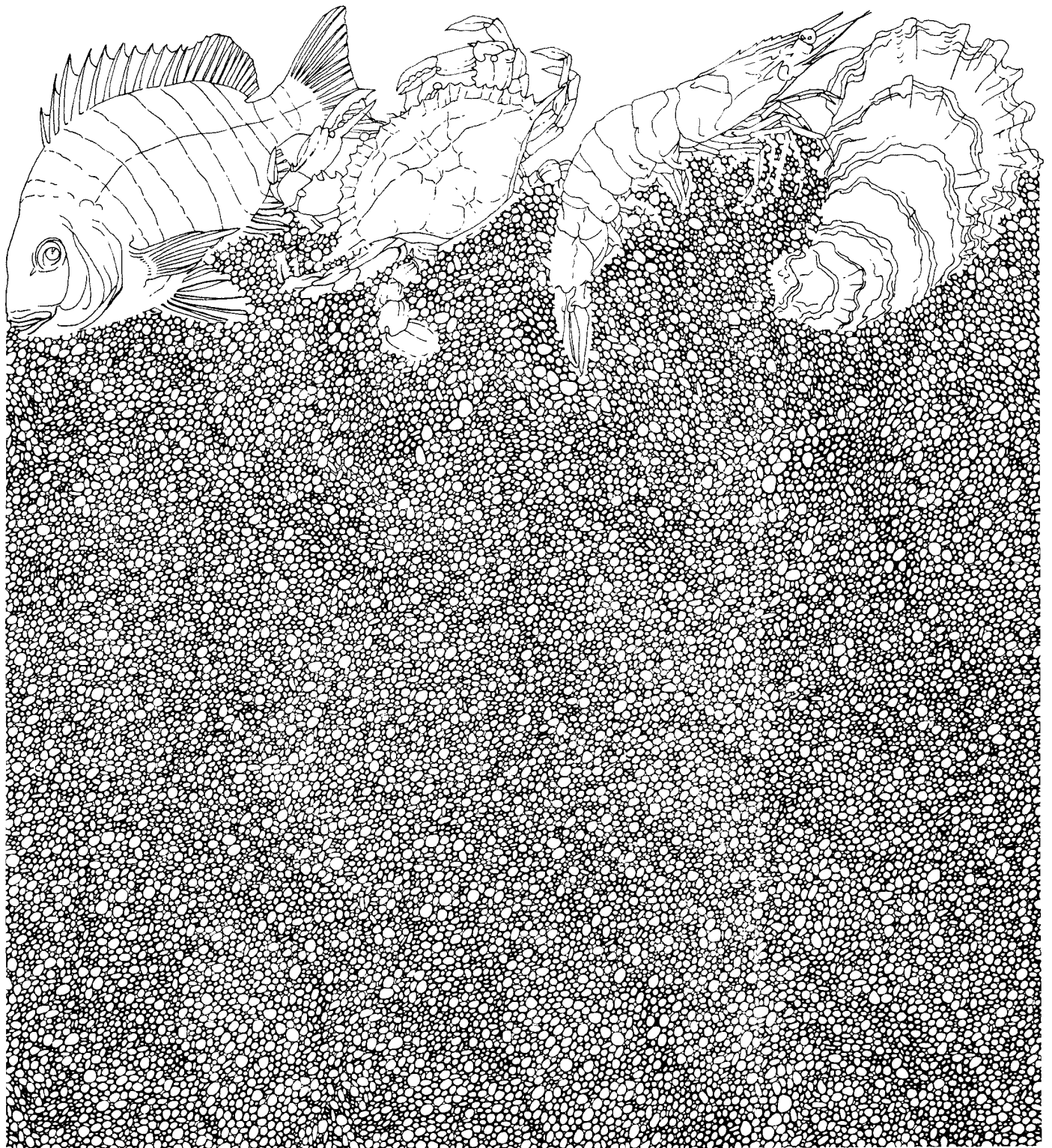
Hammer Schmidt

TEXAS COMMERCIAL HARVEST STATISTICS, 1977-1981

by C.L. Hamilton

Management Data Series Number 45
1982

Texas Parks and Wildlife Department
Coastal Fisheries Branch



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ABSTRACT

The Texas Parks and Wildlife Department in cooperation with the National Marine Fisheries Service conducts a continuing program to collect data on commercially harvested finfishes and shellfishes from Texas bays and from the Gulf of Mexico off Texas.

Based on the Monthly Marine Products Report the total finfish and shellfish bay and Gulf of Mexico landings combined decreased 986,900 lb but increased \$38,752,400 in value from 1977 to 1981. Brown shrimp (Penaeus aztecus), pink shrimp (P. duoraum) and white shrimp (P. setiferus) constituted 85-91% of all shellfish landings in each year.

Red drum (Sciaenops ocellatus), spotted seatrout (Cynoscion nebulosus), and black drum (Pogonias cromis) constituted 71-73% of all finfish landings in each year. From 1977 to 1981 landings of brown and pink shrimp increased 6,596,500 lb; landings of white shrimp decreased 3,259,700 lb; landings of red drum decreased 337,500 lb; landings of spotted seatrout decreased 701,000 lb; and, landings of black drum decreased 789,700 lb.

From 1977 to 1981 the mean price/lb paid the commercial fisherman increased for all species except for the "other shrimp" price which decreased \$0.81/lb. Finfish prices increased by \$0.01/lb to \$0.67/lb and shellfish prices increased by \$0.02/lb to \$0.53/lb.

INTRODUCTION

The Texas Parks and Wildlife Department (TPWD) in cooperation with the National Marine Fisheries Service (NMFS) conducts a continuing program to collect data on the commercially landed finfishes and shellfishes from Texas bays and from the Gulf of Mexico off Texas (Figure 1). During October 1977-September 1981 two reporting systems for commercially harvested seafood existed: 1) the Monthly Marine Products Report (MMPR); and, 2) the Individual Sales Transaction (IST). Examples of these forms are found in Figures 2 and 3. Finfish only were required to be reported on the IST. Those landings reported on the MMPR only were published in Texas Landings until 1980 when publication of this document was discontinued.

The IST system was implemented in October 1977 as a result of the passage of the Red Drum Conservation Act (Senate Bill 624) passed by the 65th Legislature. This Act reaffirmed TPWD responsibility for collecting harvest and economic statistics concerning all fishes and set restrictions on both recreational and commercial harvests of red drum (Sciaenops ocellatus). Also, the Act established a special commercial red drum license to be sold only during the month of September. Finally, the Act called for the TPWD Commission to establish a commercial red drum quota for each Texas bay system and for the Gulf of Mexico. Since October 1977 the coastwide annual red drum quota has been set at 1.4 million lb. The TPWD Commission was required to close a particular bay or the Gulf of Mexico to commercial red drum fishing when that bay or the Gulf of Mexico had reached 90% (based on the IST system) of its quota.

The 67th Legislature passed House Bill 1000 effective as of 1 September, 1981, prohibiting the sale of red drum and spotted seatrout (Cynoscion nebulosus) harvested from the Texas bay systems and the Texas territorial waters of the Gulf of Mexico (16.7 km into the Gulf).

In November, 1981 the TPWD Commission discontinued the IST system but retained the MMPR system for the reporting of commercially harvested seafoods.

MATERIALS AND METHODS

Personnel from the Division of Statistics-Market News, NMFS collected shrimp (Penaeus sp.) landings data. TPWD personnel collected landings data on finfishes, crabs (Callinectes sp.) and oysters (Crassostrea sp.). Each dealer was required to complete an MMPR listing the total weight of each species purchased from fishermen each month. MMPR must include landings of finfishes, crabs and oysters as well as the shrimp landings that are not collected by NMFS personnel. Scientific names of each species reported are listed in Table 1. The shrimp landings reported on MMPR were submitted by TPWD to the Division of Statistics-Market News, NMFS. Each dealer was also required to complete an IST at the time of each purchase of finfish from fishermen. The fishermen were required to complete an IST if finfish are sold to anyone other than a licensed dealer. All MMPR's and/or IST's must be submitted to TPWD on or before the 10th day of each month; both reports cover the preceding month's transactions.

Each MMPR and IST was checked by TPWD personnel for completeness. Finfish were converted from "gutted and gilled" weights to "guts and gills in" weights using conversion factors listed in Appendix A. Blue crab (Callinectes sapidus) landings were converted to live weight. Oyster landings were converted to meat weight. Heads-off shrimp weights were converted to heads-on shrimp weights.

To reduce non-reporting of seafood landings, TPWD personnel contacted fishermen, seafood truckers, retail and wholesale outlets and others who buy and sell fish to urge them to submit MMPRs and ISTs. In addition, during September 1980 TPWD sent letters to licensed seafood dealers stating the existing law that all finfish bought directly from fishermen must be reported on MMPR and IST.

The Gulf of Mexico shrimp landings at Texas ports as reported to TPWD by the Division of Statistics-Market News, NMFS, Galveston and listed in Texas Landings may include the harvest of shrimp from the waters of Florida, Louisiana and Mexico as well as those of Texas. In their publication Gulf Coast Shrimp Data, NMFS reports shrimp harvests from "offshore" grid areas; however, the most recent publication of this bulletin occurred in 1976. Once this publication is brought up to date, the Texas Landings will be revised to reflect only those shrimp harvested in the Gulf of Mexico off Texas.

The monthly shrimp landings for calendar years 1979, 1980 and 1981, as reported to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary data and may include revisions.

Any difference in this report compared to previous reports is due to updating of the data base and the most recent report should be considered the most accurate.

RESULTS

From 1977 to 1981 total finfish and shellfish landings decreased 986,900 lb (1.0%), and increased \$38,752,400 (29%) in value (Tables 2 and 3). Total finfish landings decreased 2,617,600 lb (49%) and decreased \$25,600 (1%) in value. Total shellfish landings increased 1,630,700 lb (2%) and increased \$36,438,800 (27%) in value.

Brown shrimp (Penaeus aztecus), pink shrimp (P. duarum) and white shrimp (P. setiferus) constituted 85-91% of all shellfish landings in all years (Tables 2 and 3). From 1977 to 1981 brown and pink shrimp landings increased 6,596,500 lb (9%) and increased \$32,411,000 (32%) in value, and white shrimp decreased 3,259,700 lb (17%) but increased \$7,147,700 (29%) in value.

Red drum, spotted seatrout and black drum (Pogonias cromis) constituted 71-73% of all finfish landings in a-1 years (Tables 2 and 3). From 1977 to 1981 landings of red drum decreased 337,500 lb (35%) but increased \$183,900 (36%) in value; spotted seatrout decreased 701,000 lb (52%) but increased \$14,700 (2%); and black drum decreased 789,700 lb (54%) and \$21,700 (5) in value.

In each year from 1977 to 1981 penaeid shrimp were the primary species landed from the bays and Gulf. In the bays they constituted 48-61% of the weight and 62-76% of the value during each year; in the Gulf, shrimp constituted approximately 99% for both the weight and value during each year (Tables 4-7).

The mean price/lb paid to commercial fishermen increased for all species from 1977 to 1981 except for "other" shrimp, the price of which decreased from \$1.11 in 1977 to \$0.30/lb in 1981 (Table 8). Of the finfish species the snapper (Lutjanidae) price increase of \$0.67/lb was the highest followed by red drum and spotted seatrout with a \$0.59 and \$0.60/lb increase, black drum and flounder (Paralichthys sp.) with a \$0.29 to \$0.51/lb increase respectively, and sheepshead (Archosargus probatocephalus) with a \$0.11/lb increase. The price paid for brown and pink and white shrimp increased \$0.21 to \$0.53/lb respectively. The price paid for blue crab and oyster meat increased \$0.02 to \$0.37/lb respectively.

Weight (lb) and ex-vessel value (\$) of commercial landings in Texas bays and territorial waters of the Gulf of Mexico during calendar years 1977-1981 are presented in Appendices B and C.

Monthly summaries of bay and Texas territorial waters of the Gulf of Mexico landings and value during calendar year 1981 are presented in Appendices D, E and F.

Landings of red drum reported on IST were 9-20% lower than those reported on MMPR except during October-December 1980 when landings of red drum reported on IST were about 10,000 lbs greater than those on MMPR (Table 9). Differences were reported in all bay systems and in all years, with the IST landings usually about 10% less than the MMPR landings.

The number of commercial licenses sold in Texas in each fiscal year from 1956 through 1981 are contained in Appendix G.

DISCUSSION

Commercial fishing continues to be an important industry in Texas. Approximately 90 million pounds of landed seafood worth about \$150 million in ex-vessel value alone are reported annually. Using an expansion factor of 3 (Grubb 1973), the total economic impact of this industry at the wholesale level in Texas approximates one-half billion dollars annually.

Reported landings indicate that brown shrimp are the most important commercial fishery; harvest of this species occurs primarily in the Gulf. Although landings of brown shrimp are not reported separate from those of pink shrimp, Christmas and Etzold (1977) have estimated that brown shrimp constitute about 95% of the landings of these two species combined. The inshore fishery relies primarily on white shrimp followed by blue crab, finfish and oysters.

Although commercial landing data have been used to determine the stability of the resource, several assumptions must be made. The amount of inaccurate or incomplete reporting is typically unknown and must be considered constant when making temporal or spatial comparisons. The reliability of

this assumption is, at best, questionable. A change in the reporting requirements can affect the amount of non-reporting and thus the reliability of conclusions about the stability of the resource is doubtful.

The weight reported on the IST and MMPR should have been identical, or the IST weight should have exceeded the MMPR weight because fishermen bypassing wholesale dealers were required to submit an IST but not an MMPR. But, the IST consistently showed fewer pounds of red drum landed than the MMPR through the first 3 years of the IST's existence. In the latter part of 1980, the reverse was true. If the IST system only had been in operation, a greater decline in red drum landings would have been indicated than actually occurred. The problem of non-reporting is seldom considered by fisheries managers when using commercial landing data as the basis for management decisions. However, the problem is unavoidable in a self-reporting system.

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Figure 1. Map of boundaries and codes of districts, bays and Gulf of Mexico grid areas.

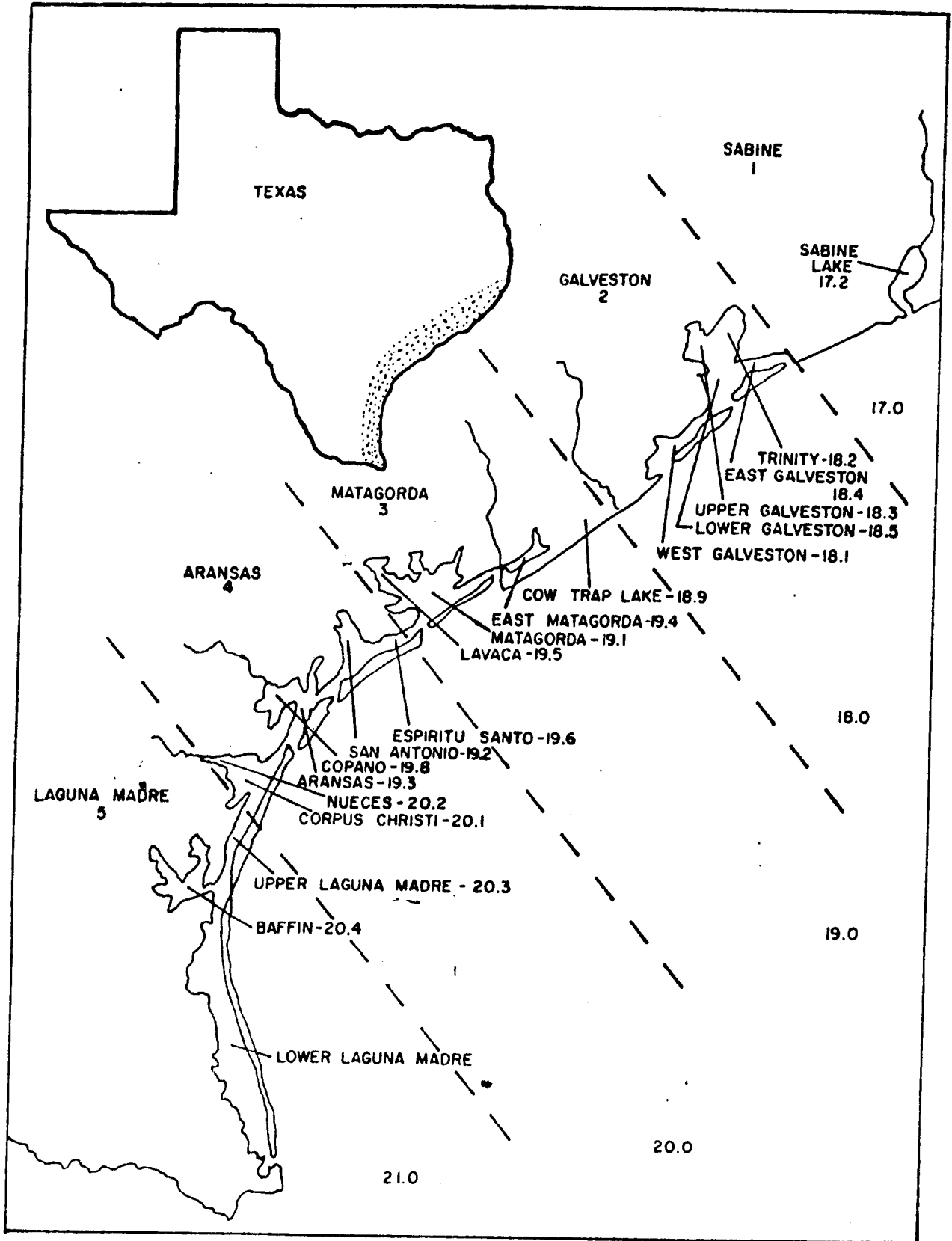


Figure 2. Example of Monthly Marine Products Report (MMPR) form.

Figure 3. Example of Individual Sales Transaction (IST) form.

TEXAS PARKS AND WILDLIFE DEPARTMENT
 4200 SMITH SCHOOL ROAD AUSTIN, TEXAS 78744
 COMMERCIAL FISH LANDINGS

INDIVIDUAL SALES TRANSACTION

- - DATE OF SALE
 MONTH DAY YEAR

1 - **9001**
 FORM NO.

FISHERMAN'S NAME

BUSINESS NAME

COMMERCIAL LICENSE NO.

RED DRUM LICENSE NO.

BAY OR GULF WHERE FISH WERE TAKEN:

CIRCLE ONLY ONE AREA CODE - SEE MAP ON FOLDER

SABINE GALVESTON MATAGORDA SAN ANTONIO ARANSAS CORPUS CHRISTI UPPER LAGUNA MADRE LOWER LAGUNA MADRE GULF OF MEXICO
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 20 21 22 23 24

GEAR USED: 1 TROTLINE 5 SEINE 9 GIG 13 CRAB TRAWL
 CIRCLE ONLY 2 TRAMMEL NET 6 SNAGLINE 10 SHRIMP TRAWL 14 OYSTER DREDGE
 ONE 3 GILL NET 7 LONGLINE 11 FISH TRAWL 15 OYSTER TONGS
 NUMBER 4 ROD AND REEL 8 PURSE SEINE 12 CRAB TRAP 16 OTHER

SPECIES	CODE	POUNDS	PRICE PER LB.		FOR DEALER USE	
			\$	CENTS		
RED DRUM	01					
BLACK DRUM	02					
SPOTTED SEATROUT	03					
SAND SEATROUT	04					
FLOUNDER	05					
SHEEPSHEAD	06					
ATLANTIC CROAKER	07					
GAFFTOP CATFISH	08					
WHITING	09					
POMPANO	10					
MULLET	11					
RED SNAPPER	12					
GROUPE (WARSAW)	13					
UNCLASSIFIED FOOD	14					
UNCLASSIFIED SCRAP	15					
CRABS (LIVE WEIGHT)	80					
OTHERS (LIST)						
OYSTER SALES	CODE	QUANTITY (NO. OF UNITS)	PRICE PER UNIT		YIELD IN GALS./UNIT	FOR DEALER USE
OYSTERS IN SACKS	81		\$	CENTS		
OYSTERS IN BUSHELS	82					
OYSTERS IN GALLONS	83					

Table 1. List of common and scientific names of species sold by commercial fishermen to dealers in Texas.

Common name	Scientific name ^a
SHELLFISH	
Brown shrimp	<u>Penaeus aztecus</u>
White shrimp	<u>Penaeus setiferus</u>
Pink shrimp	<u>Penaeus duorarum</u>
Other shrimp	
Royal red shrimp	<u>Humopenaeus robustus</u>
Seabob	<u>Xiphopenaeus kroyeri</u>
Rock shrimp	<u>Sicyonia brevirostris</u>
Oyster	<u>Crassostrea virginica</u>
Blue crab	<u>Callinectes sapidus</u>
Squid	
Brief squid	<u>Lolliguncula brevis</u>
Long-finned squid	<u>Loligo pealei</u>
FINFISH	
Red drum	<u>Sciaenops ocellatus</u>
Spotted seatrout	<u>Cynoscion nebulosus</u>
Black drum	<u>Pogonias cromis</u>
Sand seatrout	
Sand seatrout	<u>Cynoscion arenarius</u>
Silver seatrout	<u>Cynoscion nothus</u>
Flounder	
Southern flounder	<u>Paralichthys lethostigma</u>
Gulf flounder	<u>Paralichthys albiquitta</u>
Atlantic croaker	<u>Micropogonias undulatus</u>
Gafftopsail catfish	<u>Bagre marinus</u>
Sheepshead	<u>Archosargus probatocephalus</u>
Whiting	
Southern kingfish	<u>Menticirrhus americanus</u>
Gulf kingfish	<u>Menticirrhus littoralis</u>
Mullet	
Striped mullet	<u>Mugil cephalus</u>
White mullet	<u>Mugil curema</u>
Florida pompano	<u>Trachinotus carolinus</u>
Cobia	<u>Rachycentron canadum</u>
Grouper	
Yellowedge grouper	<u>Epinephelus flavolimbatus</u>
Jewfish	<u>Epinephelus itajara</u>
Warsaw grouper	<u>Epinephelus nigritus</u>
Nassau grouper	<u>Epinephelus striatus</u>
Black grouper	<u>Mycteroperca bonaci</u>
Yellowmouth grouper	<u>Mycteroperca interstitialis</u>
Scamp	<u>Mycteroperca phenax</u>
Yellowfin grouper	<u>Mycteroperca venenosa</u>

Table 1. (Cont'd).

Common name	Scientific name ^a
Snapper	
Red snapper	<u>Lutjanus campechanus</u>
Vermilion snapper	<u>Rhomboplites aurorubens</u>
Lane snapper	<u>Lutjanus synagris</u>
Mackerel	
Spanish mackerel	<u>Scomberomorus maculatus</u>
King mackerel	<u>Scomberomorus cavalla</u>
Tuna	
Blackfin tuna	<u>Thunnus atlanticus</u>
Bluefin tuna	<u>Thunnus thynnus</u>
Yellowfin tuna	<u>Thunnus albacares</u>
Swordfish	<u>Xiphias gladius</u>
Sharks	
Blacktip	<u>Carcharhinus limbatus</u>
Atlantic sharpnose	<u>Rhizoprionodon terraenovae</u>
Bull	<u>Carcharhinus leucas</u>
Shortfin mako	<u>Isurus ocyrinchus</u>
Great hammerhead	<u>Sphyrna mokarran</u>
Menhaden	
Gulf menhaden	<u>Brevoortia patronus</u>
Finescale menhaden	<u>Brevoortia gunteri</u>

^aScientific names provided by Robins et. al. (1970), Christmas and Etzold (1977), Leary (1967) and Rathjen (1973).

Table 2. Texas commercial finfish and shellfish landings (lb x 1000) for calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish					Grand total	
	Red drum	Spotted seatrout	Black drum	Flounder	Sheepshead	Snapper	Other finfish	Shrimp			Total	Blue crabs	Oysters	Squid	Total		
								Brown and pink	White	Other							
1977	950.8	1,346.8	1,453.5	310.9	293.9	440.0	498.2	5,294.1	71,897.5	19,420.2	260.3	91,578.0	8,248.6	2,600.5	13.8	102,440.9	107,735.0
1978	861.1	1,162.0	1,785.5	237.1	327.9	388.3	424.6	5,186.5	63,329.7	21,464.7	332.3	84,126.7	7,469.6	1,907.0	15.5	93,518.8	98,705.3
1979	690.1	1,030.3	1,531.4	232.4	406.1	214.7	443.3	4,548.3	50,459.3	16,474.2	719.2	67,652.7	8,311.5	888.8	0.9	76,853.9	81,402.2
1980	1,114.4	978.1	1,058.4	194.9	473.5	231.6	300.2	4,351.1	58,332.0	14,235.3	1,330.2	73,897.5	8,953.0	1,738.5	0	84,589.0	88,940.1
1981	513.3	645.8	663.8	130.5	202.8	165.9	254.4	2,676.5	78,494.0	16,160.5	1,075.7	95,730.2	6,952.0	1,389.4	0	104,071.6	106,748.1

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 3. Texas commercial finfish and shellfish ex-vessel value (\$ x 1000) for calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish					Grand total	
	Red drum	Spotted seatrout	Black drum	Flounder	Sheepshead	Snapper	Other	Shrimp			Total	Blue crabs	Oysters	Squid	Total		
								Brown and pink	White	Other							
1977	511.5	723.2	399.8	170.8	28.8	420.9	84.2	2,339.2	100,815.9	24,627.2	235.2	125,678.3	1,946.7	2,991.7	4.2	130,620.9	132,960.1
1978	592.7	769.2	607.5	173.2	39.2	403.5	85.8	2,671.1	101,798.7	38,837.6	344.6	140,980.9	2,003.8	2,205.6	4.4	145,194.7	147,865.8
1979	574.3	882.8	602.3	190.1	55.8	261.6	81.5	2,648.4	117,237.3	34,687.5	381.0	152,305.8	2,146.1	1,048.7	0.2	155,500.8	158,149.2
1980	1,024.8	961.2	539.8	153.7	66.5	351.3	58.5	3,155.8	113,972.9	25,637.8	433.2	140,043.9	2,455.8	2,692.3	0	145,192.0	148,347.8
1981	695.4	737.9	378.1	138.3	42.0	267.8	54.1	2,313.6	133,226.9	31,774.9	317.9	165,319.7	1,928.5	2,150.7	0	169,398.9	171,712.5

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 4. Weight (lb x 1000) of each species landed commercially from Texas bay systems for calendar years 1977-1981. Data based on NMFS.

Year	Finfish													Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Shrimp			Total	Blue crabs	Oysters	Squid		Total			
												Brown and pink	White	Other									
1977	899.8	1,185.6	1,470.7	6.5	210.4	30.0	61.0	260.0	6.6	7.8	0.4	44.1	126.4	4,309.3	4,711.1	9,391.4	1.6	14,104.1	8,237.4	2,600.5	5.3	24,947.3	29,256.6
1978	853.5	1,118.6	1,760.9	6.4	192.6	19.8	50.4	317.0	4.8	8.1	0.5	80.0	51.6	4,462.2	5,089.4	8,293.2	0	13,381.6	7,467.8	1,907.0	4.2	22,760.6	27,222.8
1979	676.9	899.3	1,504.7	9.8	206.8	16.4	38.7	383.5	7.9	82.5	2.1	81.9	44.9	2,955.4	7,194.3	8,027.7	0	15,222.0	9,311.0	888.8	0.3	24,222.1	27,377.5
1980	1,106.4	928.3	1,047.2	3.5	149.8	13.6	42.3	466.4	6.2	87.3	0.4	31.0	40.0	3,922.4	8,571.4	6,813.2	4.7	15,389.3	8,949.3	1,723.0	0	26,061.6	29,984.0
1981	604.3	617.2	649.5	16.2	101.9	2.2	6.9	193.7	2.7	85.2	0.2	19.3	9.7	2,309.0	7,156.3	6,096.0	0	13,252.3	6,945.6	1,389.4	0	21,587.3	21,818.2

NOTE: Shrimp landings are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 5. Ex-vessel value (\$ x 1000) of each species landed commercially from Texas bay systems for calendar years 1977-1981. Data based on NMFS.

Year	Finfish													Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Shrimp			Total	Blue crabs	Oysters	Squid		Total			
												Brown and pink	White	Other									
1977	483.9	664.9	383.1	3.6	121.7	3.3	10.9	22.7	1.6	1.6	0.2	8.9	17.5	1,723.9	2,823.7	8,270.3	0.3	11,094.3	1,944.5	2,991.7	1.8	16,032.3	17,756.2
1978	588.3	739.8	600.7	3.9	149.1	2.2	12.2	37.6	0.8	0.9	0.5	15.5	6.2	2,157.7	1,917.8	10,693.1	0	12,610.9	2,003.6	2,205.6	1.2	16,821.3	18,979.0
1979	541.2	750.4	593.5	6.6	173.6	2.7	8.5	52.0	1.8	7.7	10.9	6.0	4.0	2,158.9	6,095.0	11,111.8	0	17,206.8	2,146.5	1,048.7	0.1	20,204.1	22,561.0
1980	1,016.5	911.1	536.7	1.4	122.6	1.8	10.3	65.1	1.1	6.3	0.6	10.1	5.5	2,689.1	6,830.8	10,067.5	1.4	16,899.7	2,455.0	2,692.3	0	22,047.0	24,736.1
1981	683.8	699.9	373.6	2.5	117.7	0.5	1.6	40.3	0.7	5.8	0.3	5.2	1.3	1,933.2	4,157.5	7,233.7	0	11,391.2	1,926.8	2,150.7	0	15,468.7	17,401.9

NOTE: Shrimp landings are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 6. Weight (lb x 1000) of each species landed commercially from the Gulf of Mexico during calendar years 1977-1981. Data based on NMFS.

Year	Finfish														Shellfish					Grand Total								
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mulllet	Florida pompano			Menhaden	Mackerel	Unclassified Food Scrap	Cobia	Grouper	Snapper	Total		Shrimp			Blue crabs	Squid	Total		
										Sheepshead	Whiting	Mulllet									Brown and pink	White	Other				Total	
1977	31.0	111.8	62.8	0	100.5	2.8	10.4	37.6	26.8	0.9	0.5	0.1	0.2	0	72.5	43.0	20.0	21.7	429.5	992.1	71,897.5	19,420.2	280.3	91,578.0	11.2	13.8	91,603.0	92,595.1
1978	7.5	43.5	33.2	0	38.8	5.4	27.1	10.9	19.8	28.3	0.5	0	0	0	44.5	36.1	13.7	39.9	428.5	777.8	62,329.7	21,464.7	332.3	84,117.7	1.8	15.5	84,135.0	84,192.8
1979	13.1	131.0	26.7	0	29.6	4.1	0.4	22.6	8.8	28.8	1.5	0	0	0	31.0	62.6	7.7	14.3	211.5	593.7	50,459.3	16,674.2	344.6	67,278.1	0.5	0.9	67,279.5	57,873.2
1980	3.1	49.7	11.2	0	45.1	2.7	0.4	7.1	13.3	4.4	0.8	0	0	12.1	8.8	2.2	23.1	231.6	420.6	58,332.0	14,235.3	1,330.2	73,897.5	3.6	0	73,901.1	74,321.7	
1981	3.0	28.6	14.3	0	28.7	2.4	2.6	9.2	13.5	10.4	0.2	0	0	34.4	4.7	13.7	29.8	165.9	367.4	71,337.7	10,064.5	1,075.7	82,478.0	6.4	0	82,481.3	82,851.7	

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 7. Ex-vessel value (\$ x 1000) of each species landed commercially from the Gulf of Mexico during calendar years 1977-1981. Data based on NMFS.

Year	Finfish														Shellfish					Grand Total							
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mulllet	Florida pompano			Menhaden	Mackerel	Unclassified Food Scrap	Cobia	Grouper	Snapper	Total		Shrimp			Blue crabs	Squid	Total	
										Sheepshead	Whiting	Mulllet									Brown and pink	White	Other				Total
1977	27.4	63.0	12.0	0	49.2	0.6	4.3	5.5	4.2	0.2	0.3	0	0	12.8	4.9	4.7	5.1	420.6	615.0	100,813.9	24,627.2	235.2	125,678.3	2.2	4.2	125,684.7	126,399.7
1978	4.6	29.4	6.8	0	24.0	1.5	12.7	1.6	2.7	2.5	0.6	0	0	5.8	3.7	4.4	9.8	403.5	513.6	101,798.7	38,837.5	384.6	140,980.9	0.3	4.4	140,985.6	141,693.2
1979	10.2	112.4	8.8	0	16.5	0.6	0.1	3.8	1.2	2.4	2.3	0	0	9.4	7.5	2.8	6.7	261.6	446.3	117,237.3	34,687.5	381.0	152,105.8	0.2	0.2	152,106.2	152,742.5
1980	8.3	50.4	3.0	0	31.2	0.2	0.1	1.4	2.3	0.7	1.1	0	0	5.2	0.7	1.1	9.7	351.3	466.7	113,972.9	25,637.8	433.2	140,043.9	0.8	0	140,044.7	140,511.4
1981	11.6	38.0	4.5	0	20.6	0.5	2.1	1.7	2.8	1.3	0.3	0	0	7.2	0.3	7.3	14.2	267.8	380.3	129,069.4	24,541.3	317.9	153,928.6	1.7	0	153,930.3	154,310.6

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 8. Price (\$/lb) paid commercial fishermen for finfish and shellfish during calendar year 1977-1981. Data based on MPRR.

Year	Red drum		Spotted seatrout		Black drum		Finfish				Shellfish													
	Range	Mean	Range	Mean	Range	Mean	Flounder	Sheepshead	Snapper	Other Finfish	Brown and pink	White	Other	Blue crabs	Oysters									
							Range	Range	Range	Range	Range	Range	Range	Range	Range									
1977	0.50-1.15	0.54	0.40-1.15	0.54	0.25-0.65	0.28	0.22-1.10	0.55	0.05-0.35	0.10	0.45-1.30	0.94	0.10-0.35	0.20	0.85-3.10	1.49	0.45-2.95	1.44	0.85-2.80	1.11	0.16-0.35	0.26	0.85-1.25	1.18
1978	0.50-1.35	0.69	0.45-1.20	0.65	0.30-0.65	0.34	0.40-1.30	0.73	0.05-0.35	0.12	0.85-1.65	1.04	0.05-0.65	0.20	0.65-3.25	1.63	0.90-2.95	1.81	0.20-0.26	1.04	0.17-0.35	0.27	1.01-1.25	1.16
1979	0.45-1.10	0.83	0.45-1.10	0.86	0.25-0.50	0.39	0.35-1.40	0.82	0.05-0.30	0.14	0.60-1.65	1.22	0.03-0.45	0.18	0.45-3.25	2.32	0.45-3.15	2.11	0.25-0.95	0.53	0.14-0.55	0.26	0.91-1.63	1.18
1980	0.50-1.20	0.92	0.50-1.25	0.98	0.35-0.70	0.51	0.25-1.25	0.79	0.03-0.25	0.14	0.65-1.95	1.52	0.05-0.45	0.19	0.40-3.15	1.95	0.45-2.95	1.80	0.39-0.90	0.33	0.16-0.50	0.27	1.01-1.64	1.55
1981	0.95-1.45	1.13	0.90-1.45	1.14	0.45-0.80	0.57	0.60-1.25	1.06	0.03-0.40	0.21	0.85-2.45	1.61	0.05-0.45	0.21	0.40-3.20	1.70	0.45-3.00	1.97	0.35-0.85	0.30	0.21-0.55	0.28	1.04-1.70	1.55

Table 9. Total reported commercial red drum landings (live weight in lb x 1000) by bay system and the Gulf of Mexico in Texas territorial waters during the years 1977-1981 (October-September). Data based on MMPR and IST.

	Oct 77-Sept 78		Oct 78-Sept 79		Oct 79-Sept 80		Oct 80-Sept 81	
	MMPR	IST	MMPR	IST	MMPR	IST	MMPR	IST
Sabine Lake	0	0	140	1,196	1,207	837	998	2,059
Galveston	14,787	17,772	25,801	21,123	6,981	6,212	13,501	13,332
Matagorda	36,075	37,160	29,615	27,669	25,138	21,887	22,901	24,062
San Antonio	83,455	53,552	47,673	38,077	48,495	45,715	110,799	95,288
Aransas	130,580	90,609	75,319	94,514	143,948	109,138	78,796	52,038
Corpus Christi	86,578	77,195	75,687	67,769	93,270	79,013	88,787	84,029
Upper Laguna Madre	65,324	55,579	99,825	83,738	147,041	115,241	244,502	233,336
Lower Laguna Madre	360,914	301,743	486,886	428,154	430,047	348,250	457,179	400,497
Gulf of Mexico	9,939	0	12,833	10,535	10,945	12,339	10,729	13,669
Unknown bay	0	0	0	1,510	0	7,054	3,777	0
TOTAL	787,652	633,610	853,779	774,285	907,072	745,686	1,031,969	918,310

Appendix A. Conversion factors for finfish and shellfish.

Table 1. Factors for converting dressed weight to live weight.

Species	Conversion factors (divided by)	Reference
Red drum	0.88	Harrington et al (1979)
Spotted seatrout	0.87	Harrington et al. (1979)
Black drum	0.88	Harrington et al. (1979)
Sand seatrout	0.87	Resource Statistics Division (1980)
Flounder	0.93	Harrington et al. (1979)
Whiting	0.85	Resource Statistics Division (1980)
Croaker	0.85	Resource Statistics Division (1980)
Sheepshead	0.85	Harrington et al. (1979)
Pompano	0.85	Resource Statistics Division (1980)
Snapper	0.85	Resource Statistics Division (1980)

Table 2. Factors for converting headed or collared weights of fish to live weights (Resource Statistics Division 1980).

Species	Conversion factors (divided by)
Black drum	0.61
Gafftopsail catfish	0.65
Cobia	0.70
Grouper	0.70
Snapper	0.61

Table 3. Factors for converting blue crabs and oysters measured to live weights (Resource Statistics Division 1980).

Species	Conversion factors (divided by)
Blue crabs	6 lb/1 doz.
Oysters (to oyster meat)	17.5 lb/bbl
Oysters (to oyster meat)	8.75 lb/gal

Table 4. Factors for converting heads-off weight to heads-on weight (Chin 1960).

Species	Conversion factors (divided by)
Brown shrimp	1.61
Pink shrimp	1.60
White shrimp	1.54
Royal Red shrimp	1.80
Sea bobs	1.53
Rock shrimp	1.67

Appendix B. Weight (lb) and ex-vessel value (\$) of commercial landings in Texas bays during calendar years 1977-1981.

Table 1. Weight (lb) of each species landed commercially from Sabine Lake during calendar year 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish					Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap			Shrimp			Blue crabs	Oysters	Squid	Total	
												Brown and pink	White	Other	White	Other						Total
1977	725	209	980	0	687	0	39	139	37	0	0	2,336	2,336	4,212	0	6,548	226,100	0	0	0	232,648	235,454
1978	0	0	0	0	330	0	0	59	114	0	0	503	503	2,763	0	2,763	624,171	0	0	0	626,934	627,437
1979	274	0	556	0	51	9	9	764	60	56	0	284	2,027	0	0	0	163,301	0	0	0	163,301	165,328
1980	1,618	158	48	0	78	124	0	627	240	60	0	3,033	1,099	49,900	4,668	55,667	70,089	0	0	0	125,756	128,799
1981	437	0	219	24	119	0	0	76	238	12	0	1,400	12,830	43,248	0	56,078	72,624	0	0	0	128,702	130,102

NOTE: Shrimp landings are furnished to TPWD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 2. Weight (lb) of each species landed commercially from the Galveston Bay system during calendar year 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap			Shrimp			Blue crabs	Oysters	Squid	Total		
												Brown and pink	White	Other	White	Other						Total	
1977	24,158	134,856	102,175	1,211	14,382	5,989	20,875	21,117	6,530	3,843	0	41,313	81,824	458,283	2,256,376	2,988,766	1,600	5,246,942	1,859,418	1,917,532	3,335	9,027,227	9,485,810
1978	14,857	344,185	161,887	3,438	55,173	8,937	32,554	55,504	4,647	1,946	19	75,265	49,282	807,694	2,066,133	3,618,523	0	5,884,556	1,920,886	1,076,797	3,528	8,685,867	9,493,561
1979	18,692	122,094	73,101	1,016	46,969	9,604	23,900	72,192	7,828	46,427	1	36,569	44,242	502,535	1,315,025	1,963,252	0	3,278,277	1,953,742	43,097	182	5,275,278	5,777,813
1980	13,114	90,640	55,999	2,116	31,477	5,204	34,421	65,844	5,824	2,251	0	29,028	39,496	375,415	2,317,775	3,439,745	0	5,751,520	1,749,057	1,004,208	0	8,510,785	8,886,199
1981	6,042	77,825	51,830	119	20,510	660	3,670	51,376	2,287	3,985	0	16,864	9,155	244,423	1,991,873	2,655,307	0	4,647,180	609,682	951,554	0	6,208,516	6,452,939

NOTE: Shrimp landings are furnished to TPWD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 3. Weight (lb) of each species landed commercially from the Matagorda Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap			Shrimp			Blue crabs	Oysters	Squid	Total		
												Brown and pink	White	Other	White	Other						Total	
1977	26,521	42,020	17,489	0	19,184	400	1,536	5,290	0	1,196	0	1,047	2,040	116,723	1,008,551	2,621,280	0	3,629,831	211,227	166,605	1,937	4,011,600	4,128,323
1978	18,353	21,538	16,593	0	19,322	0	3,265	2,257	0	564	0	79	0	81,881	767,620	2,526,703	0	3,294,323	313,509	145,791	668	3,754,291	3,836,172
1979	16,235	17,540	10,150	197	6,993	0	867	2,997	0	270	0	0	0	54,849	2,546,059	2,832,037	0	5,378,096	680,808	120,937	14	6,179,855	6,234,704
1980	19,414	24,087	11,364	21	3,077	0	0	2,540	0	0	24	131	131	60,658	2,059,240	1,538,837	0	3,598,077	390,743	333,179	0	4,321,999	4,382,657
1981	10,729	8,677	6,047	0	553	3	41	287	1	18,379	0	10	55	44,782	1,521,424	1,746,315	0	3,267,739	368,089	88,659	0	3,724,487	3,769,269

NOTE: Shrimp landings are furnished to TPWD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 4. Weight (lb) of each species landed commercially from the East Matagorda Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish					Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap		Brown and pink	Shrimp		Oysters	Squid	Total		
												Total	Other		White					Other	Total
1977	17,364	23,627	9,339	0	3,497	30	0	2,938	0	0	0	0	14,025	70,820	0	0	309,699	1,317	0	311,016	381,836
1978	14,462	20,563	9,393	3	3,103	0	0	1,964	0	0	0	0	49,668	0	0	0	267,668	578	0	268,246	317,914
1979	3,014	13,146	7,531	329	791	0	209	1,202	0	0	0	0	31,222	0	0	196,073	26,040	0	222,113	253,335	
1980	8,240	29,898	4,248	0	390	0	0	487	0	1	0	0	43,264	0	0	468,952	2,722	0	471,674	514,938	
1981	2,499	7,566	1,387	63	269	9	28	50	6	0	0	0	11,977	0	0	83,497	27,504	0	111,001	122,978	

* Shrimp landings are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 5. Weight (lb) of each species landed commercially from the San Antonio Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap		Brown and pink	Shrimp		Oysters	Squid	Total			
												Total	Other		White					Other	Total	Blue crabs
1977	64,505	68,888	39,889	19	15,012	0	6,829	6,523	0	188	0	154	202,007	231,089	1,428,055	0	1,659,144	438,391	50	4,279,172	4,481,179	
1978	55,777	22,689	31,040	0	11,857	0	257	11,544	0	574	0	22	143,760	685,755	630,176	0	1,315,931	560,780	0	3,802,194	3,945,954	
1979	43,368	20,546	8,679	0	5,083	0	243	5,903	0	0	0	680	84,502	738,899	952,150	0	1,691,049	600,745	0	4,972,905	5,057,407	
1980	102,797	40,450	17,636	0	10,073	0	49	4,851	0	0	0	89	175,945	1,173,386	559,288	0	1,732,674	3,011,967	361,303	0	5,105,944	5,281,889
1981	45,748	20,273	9,887	0	11,426	0	28	2,939	0	30,381	0	0	121,682	736,031	587,894	0	1,323,925	142,641	0	4,677,623	4,799,305	

* Shrimp landings are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 6. Weight (lb) of each species landed commercially from the Aransas Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish					Grand total							
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap		Brown and pink	Shrimp		Oysters	Squid	Total				
												Total	Other		White					Other	Total	Blue crabs	
1977	138,484	223,071	203,441	5,246	68,100	3,135	16,391	37,993	0	2,048	36	740	23,643	742,328	473,954	1,781,140	0	2,255,094	2,244,568	65,573	0	4,565,235	5,207,563
1978	121,559	120,603	81,282	2,111	41,200	3,680	4,445	33,778	4	1,870	9	235	10	410,786	659,810	993,356	0	1,653,166	2,051,177	119,994	0	3,824,337	4,235,123
1979	74,734	106,047	24,064	329	42,414	257	3,528	21,264	0	1,051	236	54	181	274,159	1,427,626	1,227,415	0	2,655,041	2,436,264	96,013	0	5,187,318	5,461,477
1980	169,723	79,647	36,919	93	58,005	18	1,752	11,954	0	14,951	21	337	223	373,643	1,010,885	824,648	0	1,835,533	2,716,056	21,588	0	4,573,177	4,946,820
1981	28,417	40,892	19,638	74	44,607	3	361	26,824	0	3,197	0	53	0	164,066	1,744,416	726,693	0	2,471,109	1,739,402	62,369	0	4,271,880	4,435,946

* Shrimp landings are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 7. Weight (lb) of each species landed commercially from the Corpus Christi Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish						Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs		Total				
													Brown and pink	White	Other							
1977	68,716	82,301	199,848	0	49,128	3,206	15,149	116,863	57	73	37	0	535,378	738,572	567,956	0	1,306,528	102,750	0	0	1,409,278	1,944,656
1978	83,387	166,787	400,845	829	44,979	1,900	4,988	126,860	0	0	291	889	831,665	910,075	521,680	0	1,431,755	9,307	0	0	1,441,062	2,277,727
1979	62,398	152,158	383,315	2,012	68,726	3,480	9,946	201,684	6	34,680	173	41,854	960,451	1,166,697	1,052,891	0	2,219,588	50,498	0	116	2,270,202	3,230,653
1980	103,661	192,315	198,629	727	26,813	5,028	8,630	251,267	156	69,790	101	0	4,719	861,836	400,763	0	1,869,777	17,448	0	0	1,887,225	2,749,061
1981	56,921	110,986	58,074	15,936	5,948	75	2,560	51,927	179	23,592	0	128	69	326,395	336,542	0	1,486,223	7,723	0	0	1,493,946	1,820,341

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston are preliminary.

Table 8. Weight (lb) of each species landed commercially from the upper Laguna Madre system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish						Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs		Total				
													Brown and pink	White	Other							
1977	145,249	175,318	519,296	0	5,205	104	23	41,537	0	495	180	32	887,439	0	0	0	126,811	0	0	0	126,811	1,014,250
1978	79,963	123,052	558,383	0	4,166	253	2	24,681	0	2,337	131	0	792,968	0	0	0	159,517	0	0	0	159,517	952,485
1979	91,511	138,414	562,558	1,310	3,362	655	65	31,619	0	958	0	0	820,452	0	0	0	26,911	0	0	0	26,911	847,363
1980	243,167	202,999	512,366	257	8,559	2,079	409	46,722	0	92	0	0	1,016,650	0	0	0	6,688	0	0	0	6,688	1,023,338
1981	128,559	137,748	343,717	65	5,031	931	93	35,306	4	2	15	0	651,471	0	0	0	0	0	0	0	0	651,471

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics - Market News, Galveston, Texas, and are preliminary.

Table 9. Weight (lb) of each species landed commercially from the lower Laguna Madre system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish						Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs		Total					
													Brown and pink	White	Other								
1977	394,112	484,696	378,258	0	35,255	17,121	147	27,603	0	0	116	836	22,071	1,360,215	0	0	0	975,244	9,066	0	0	984,310	2,344,525
1978	455,182	299,160	492,760	0	12,552	5,004	4,928	60,371	0	824	90	3,555	2,322	1,336,748	0	0	0	196,070	3,071	64	0	199,205	1,535,953
1979	371,724	359,379	424,749	4,610	32,867	2,356	190	45,826	0	713	2,731	170	1,225,315	0	0	0	122,279	1,563	0	0	124,242	1,349,557	
1980	444,619	268,130	210,016	295	11,334	1,194	0	82,148	0	269	200	1,333	381	1,019,919	0	0	0	518,342	15,494	0	0	533,836	1,553,755
1981	320,202	202,987	157,654	0	10,855	526	3	24,770	3	5,700	183	1,651	346	724,880	0	0	0	815,087	0	0	0	815,087	1,539,967

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 10. Ex-vessel value (\$) of each species landed commercially from Sabine Lake during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish										
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Blue crabs	Total			
														Brown and pink	White	Other					
1977	430	125	281	0	624	0	8	34	7	0	0	0	1,309	1,098	2,529	0	3,627	57,906	0	0	61,533
1978	0	0	0	0	166	0	0	12	23	0	0	0	201	0	4,528	0	4,528	163,290	0	0	167,818
1979	172	0	199	0	25	2	2	169	13	13	0	54	649	0	0	0	0	49,330	0	0	49,330
1980	1,238	136	24	0	43	55	0	166	69	28	0	8	1,787	1,113	37,519	1,354	39,986	24,044	0	0	64,030
1981	348	0	81	16	56	0	0	15	51	6	0	5	613	8,600	38,279	0	46,879	29,574	0	0	76,453

NOTE: Shrimp values are furnished to TPMD by NMFS, Division of Statistic-Market News, Galveston, Texas, and are preliminary.

Table 11. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system during calendar year 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish										
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Blue crabs	Total			
														Brown and pink	White	Other					
1977	12,360	71,609	28,002	412	8,001	1,326	3,924	4,872	1,239	1,039	0	8,038	11,038	1,934,420	2,966,068	320	4,900,808	452,332	2,299,615	1,107	7,653,862
1978	10,319	199,939	48,796	2,105	43,424	1,075	6,676	10,514	791	238	7	14,780	5,792	778,260	4,977,027	0	5,755,287	521,289	1,222,871	987	7,500,434
1979	15,285	100,716	23,318	289	41,204	1,594	5,353	10,809	1,779	4,946	0	8,345	3,879	1,144,900	2,648,695	0	3,793,595	481,825	66,788	37	4,342,245
1980	13,566	95,287	30,090	1,084	28,679	997	8,770	15,128	1,003	474	0	9,499	5,039	2,076,228	4,831,461	0	6,907,689	493,068	1,643,511	0	9,044,268
1981	6,990	91,961	30,788	42	23,711	171	771	14,056	659	234	0	4,696	1,223	1,018,256	3,107,981	0	4,126,237	187,155	1,510,186	0	5,823,578

NOTE: Shrimp values are furnished to TPMD by NMFS, Division of Statistic-Market News, Galveston, Texas, and are preliminary.

Table 12. Ex-vessel value (\$) of each species landed commercially from the Matagorda Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish										Shellfish										
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Blue crabs	Total			
														Brown and pink	White	Other					
1977	15,326	23,911	4,774	0	12,470	120	305	1,240	0	344	0	210	306	353,186	2,488,878	0	2,842,064	52,248	188,224	657	3,083,193
1978	12,411	14,481	5,160	0	13,987	0	795	643	0	139	0	12	0	301,006	3,269,862	0	3,570,868	81,465	182,319	247	3,834,899
1979	13,671	14,155	4,021	80	5,928	0	326	579	0	34	0	0	0	2,190,100	3,920,487	0	6,110,587	180,569	146,205	5	6,437,366
1980	18,791	22,511	5,603	5	3,213	0	0	542	0	0	35	33	0	1,663,153	2,622,548	0	4,285,701	105,058	495,533	0	4,886,292
1981	10,924	8,992	3,318	0	683	2	21	54	1	939	0	7	6	955,878	2,233,391	0	3,189,269	95,838	130,348	0	3,415,455

NOTE: Shrimp values are furnished to TPMD by NMFS, Division of Statistic-Market News, Galveston, Texas, and are preliminary.

Table 13. Ex-vessel value (\$) of each species landed commercially from the East Matagorda Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish					Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap			Brown and pink	Shrimp		Blue crabs	Oysters	Squid	Total	
												Total	Other	Total		White						Other
1977	10,007	14,157	2,556	0	2,112	9	0	1,403	0	0	0	0	0	30,953	0	0	0	75,882	1,224	0	77,106	108,059
1978	9,105	13,424	2,759	1	2,276	0	0	550	0	0	0	0	28,115	0	0	0	66,482	792	0	67,274	95,389	
1979	6,869	11,032	2,655	132	614	0	94	487	0	0	0	0	21,883	0	0	0	48,079	38,020	0	86,099	107,982	
1980	7,753	27,792	1,770	0	392	0	0	206	0	0	0	0	37,913	0	0	0	123,063	3,861	0	126,924	164,837	
1981	2,734	7,663	906	21	242	7	21	35	5	0	0	0	11,714	0	0	0	23,578	43,804	0	67,382	79,096	

NOTE: Shrimp landings are furnished to TPAD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 14. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap			Brown and pink	Shrimp		Blue crabs	Oysters	Squid	Total		
												Total	Other	Total		White						Other	Total
1977	34,878	37,062	9,631	2	8,965	0	1,234	757	0	38	0	69	0	92,656	74,219	975,469	0	1,049,688	506,154	428,621	8	1,984,471	2,077,127
1978	47,652	15,396	9,021	0	9,331	0	43	1,595	0	83	0	3	0	83,124	221,690	613,291	0	834,981	504,868	661,881	0	2,001,730	2,084,954
1979	39,152	18,315	3,231	0	4,830	0	43	1,134	0	0	0	272	0	66,977	570,771	1,149,737	0	1,720,508	723,938	686,703	0	3,131,149	3,198,126
1980	94,422	38,980	8,365	0	9,856	0	27	1,032	0	0	9	0	152,891	1,028,620	775,524	0	1,804,144	802,172	503,258	0	3,109,574	3,262,465	
1981	50,906	18,798	5,446	0	13,063	0	11	737	0	1,519	0	0	90,482	461,439	537,989	0	999,428	797,729	194,686	0	1,891,843	2,082,325	

NOTE: Shrimp landings are furnished to TPAD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 15. Ex-vessel value (\$) of each species landed commercially from the Aransas Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap			Brown and pink	Shrimp		Blue crabs	Oysters	Squid	Total		
												Total	Other	Total		White						Other	Total
1977	96,180	130,485	33,415	3,138	40,208	469	2,731	2,654	0	102	20	124	1,317	310,843	159,139	1,395,300	0	1,554,439	505,799	65,103	0	2,125,341	2,436,184
1978	97,254	86,081	26,440	1,689	33,525	303	935	2,938	4	208	9	50	1	249,433	221,432	1,135,803	0	1,357,235	567,764	133,735	0	2,058,734	2,308,167
1979	69,246	93,462	9,094	77	34,294	44	885	2,720	0	105	228	6	18	210,179	1,148,755	1,746,314	0	2,895,069	613,601	108,704	0	3,617,374	3,827,553
1980	170,883	80,795	17,804	19	43,227	4	308	1,573	0	770	27	340	20	315,770	862,589	1,207,650	0	2,070,239	786,161	22,934	0	2,859,334	3,175,104
1981	30,838	48,579	12,343	11	53,451	1	91	6,151	0	458	0	13	0	151,936	925,332	876,325	0	1,801,657	547,211	91,656	0	2,440,524	2,592,460

NOTE: Shrimp landings are furnished to TPAD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 16. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish									
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs	Total				
													Brown and pink	White	Other						
1977	41,994	47,601	59,310	0	29,921	334	1,742	7,736	3	4	22	0	188,667	301,665	442,067	0	743,732	25,810	0	769,542	958,209
1978	61,906	115,307	153,766	81	35,304	314	809	11,979	0	268	0	118	379,852	395,436	692,600	0	1,088,036	2,136	0	1,090,172	1,470,024
1979	59,341	131,493	165,498	430	55,662	676	1,823	25,873	2	2,561	172	5,324	448,855	1,040,520	1,646,614	0	2,687,134	10,907	0	2,698,064	3,146,919
1980	102,395	198,155	108,901	168	21,887	376	1,071	29,996	18	5,031	124	0	468,542	1,199,080	592,844	0	1,791,924	7,821	0	1,799,745	2,268,287
1981	65,805	128,958	34,388	2,444	6,029	16	674	7,862	9	2,118	0	26	247,449	788,033	439,698	0	1,227,731	3,852	0	1,231,583	1,479,032

NOTE: Shrimp values are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 17. Ex-vessel value (\$) of each species landed commercially from the upper Laguna Madre system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish										
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs	Total					
													Brown and pink	White	Other							
1977	85,799	109,927	165,429	0	3,278	10	3	3,130	0	50	111	8	358,655	0	0	0	0	28,855	0	0	28,855	387,510
1978	64,187	98,933	229,320	0	3,434	42	0	2,832	0	210	116	0	399,074	0	0	0	0	45,691	0	0	45,691	444,765
1979	73,775	130,146	264,455	1,219	3,313	130	12	5,234	0	996	0	0	459,280	0	0	0	0	6,836	0	0	6,836	466,116
1980	213,638	192,549	255,977	54	6,424	320	97	7,907	0	84	0	0	692,050	0	0	0	0	2,704	0	0	2,704	694,754
1981	137,059	156,267	199,160	18	5,604	223	21	7,458	1	0	21	0	505,792	0	0	0	0	0	0	0	0	505,792

NOTE: Shrimp values are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 18. Ex-vessel value (\$) of each species landed commercially from the lower Laguna Madre system during calendar years 1977-1981. Data based on NMFS.

Year	Finfish											Shellfish										
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs	Total					
													Brown and pink	White	Other							
1977	187,048	234,299	84,443	0	16,294	1,056	30	2,138	0	0	50	93	5,518	530,969	0	0	0	239,526	8,957	0	248,483	779,452
1978	285,311	196,203	125,476	0	7,678	502	2,918	6,517	0	49	85	546	235	625,720	0	0	0	50,571	4,010	10	54,591	680,311
1979	286,657	271,075	141,050	4,380	27,332	269	38	4,958	0	1,207	413	15	740,794	0	0	0	30,801	2,235	0	33,036	773,830	
1980	388,601	254,905	98,202	53	8,799	81	0	8,571	0	13	327	239	41	759,832	0	0	0	130,942	13,234	0	154,176	914,008
1981	373,976	226,753	86,390	0	11,614	94	1	3,882	1	570	301	290	58	703,330	0	0	0	234,290	0	0	234,290	937,620

NOTE: Shrimp landings are furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Appendix C. Weight (lb) and ex-vessel value (\$) of commercial landings in Texas territorial waters of the Gulf of Mexico during calendar years 1977-1981.

Table 1. Weight (lb) of each species landed commercially from Gulf of Mexico grid area 17.0 during calendar years 1977-1981. Data based on MOPR.

Year	Finfish											Shellfish			Grand total							
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Menhaden	Mackerel	Total	Blue crabs	Squid	Total
1977	2,459	1,405	5,810	0	2,888	386	50	1,615	4,805	0	0	0	200	629	26,211	0	0	56,458	0	0	0	56,458
1978	491	262	20,455	0	2,539	0	112	163	2,128	0	26	461	0	0	1,546	0	0	28,163	1,268	13	1,281	29,444
1979	77	3,200	114	0	1,176	0	77	587	418	0	0	0	0	0	3,222	0	0	8,871	100	0	100	8,971
1980	243	69	113	0	3,619	352	0	471	3,668	0	0	71	276	582	825	0	0	10,289	3,149	0	3,149	13,438
1981	93	36	71	0	2,816	29	562	532	1,250	619	0	515	0	4	235	0	0	6,762	5,860	0	5,860	12,662

Table 2. Weight (lb) of each species landed commercially in Gulf of Mexico grid area 18.0 during calendar years 1977-1981. Data based on MOPR.

Year	Finfish											Shellfish			Grand total							
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Menhaden	Mackerel	Total	Blue crabs	Squid	Total
1977	37,530	101,973	28,861	0	55,094	2,266	10,128	29,444	20,513	535	0	53,797	38,794	7,874	96,686	70	175	494,420	11,038	7,813	18,851	513,271
1978	4,956	40,495	4,925	0	32,429	5,390	1,634	8,924	16,089	1,340	81	18,781	35,905	17,470	100,469	0	0	298,932	502	11,164	11,666	310,598
1979	4,657	85,963	14,324	0	20,653	3,742	331	17,147	6,038	2,753	128	25,831	62,236	7,020	62,133	0	0	318,760	417	577	994	319,754
1980	4,649	38,877	7,181	0	35,981	13	434	4,856	9,424	1,076	576	10,753	8,546	13,957	58,750	0	0	195,883	485	0	485	196,368
1981	1,141	7,130	4,900	0	16,644	0	2,081	5,657	10,178	9,881	0	1,067	4,167	4,796	20,996	0	0	97,927	519	0	519	98,446

Table 3. Weight (lb) of each species landed commercially from Gulf of Mexico grid area 19.0 during calendar years 1977-1981. Data based on MOPR.

Year	Finfish											Shellfish			Grand total							
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Menhaden	Mackerel	Total	Blue crabs	Squid	Total
1977	7,460	6,429	10,039	0	33,124	0	3,142	1,953	1,050	239	452	1,860	4,164	3,538	57,780	0	0	135,372	137	532	669	136,041
1978	2,018	2,794	4,464	0	6,646	59	211	663	1,101	577	66	657	237	10,972	69,671	0	0	103,372	0	50	50	103,422
1979	8,394	41,813	8,555	0	1,208	0	29	1,969	2,174	26,066	153	3,392	2,045	2,698	41,263	0	0	139,739	0	0	0	139,739
1980	2,771	10,790	591	0	2,265	2,358	0	1,700	187	3,330	89	986	10	5,214	70,449	0	0	101,280	0	0	0	101,280
1981	7,728	4,070	1,356	0	609	0	0	102	2,049	0	5	0	5,414	10,848	49,586	0	0	81,767	0	0	0	81,767

Table 4. Weight (lb) of each species landed commercially from Gulf of Mexico grid area 20.0 during calendar years 1977-1981. Data based on MMPA.

Year	Finfish											Shellfish			Grand total									
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total				
1977	319	18	116	0	298	0	0	0	0	100	0	0	0	0	0	851	0	0	0	851				
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 5. Weight (lb) of each species landed commercially from Gulf of Mexico grid area 21.0 during calendar years 1977-1981. Data based on MMPA.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
1977	3,216	0	17,966	0	9,091	163	36	5,909	412	0	29	16,379	1,775	9,673	248,811	313,460	0	179	179	313,639
1978	97	0	3,326	0	2,856	4,721	25,144	1,129	438	26,351	296	7,470	339	11,467	216,627	300,261	0	0	0	300,261
1979	0	0	3,659	0	2,651	0	0	2,935	170	0	1,205	1,766	0	4,582	108,134	125,443	0	0	0	125,443
1980	430	0	3,357	0	4,134	0	0	64	33	0	126	279	0	3,335	101,584	113,342	0	0	0	113,342
1981	0	17,324	7,972	0	8,590	2,350	0	1,894	26	0	195	33,359	0	14,194	94,833	180,737	0	0	0	180,737

Table 6. Ex-vessel value (\$) of each species landed commercially in Gulf of Mexico grid area 17.0 during calendar years 1977-1981. Data based on MMR.

Year	Finfish										Shellfish											
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper	Snapper	Menhaden	Mackerel	Total	Blue crabs	Squid	Total	Grand total
1977	1,310	720	1,558	0	1,529	93	10	331	966	0	0	0	50	159	32,954	0	0	39,680	0	0	0	39,680
1978	209	114	4,091	0	1,222	0	20	17	346	0	4	108	0	0	1,725	0	0	7,856	159	3	162	8,018
1979	40	3,903	23	0	622	0	15	139	66	0	0	0	0	0	4,280	0	0	9,088	30	0	30	9,118
1980	161	36	16	0	2,242	36	0	53	463	0	0	18	42	262	1,170	0	0	4,499	694	0	694	5,193
1981	55	25	17	0	1,562	7	112	142	150	71	0	0	123	1	458	0	0	2,733	1,520	0	1,520	4,253

Table 7. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 18.0 during calendar years 1977-1981. Data based on MMR.

Year	Finfish										Shellfish											
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper	Snapper	Menhaden	Mackerel	Total	Blue crabs	Squid	Total	Grand total
1977	21,052	58,570	6,144	0	28,295	515	1,727	4,441	3,021	120	0	10,640	3,486	1,852	85,366	14	10	229,702	2,199	2,222	4,421	234,113
1978	2,970	27,187	1,097	0	18,078	1,060	380	1,412	2,121	536	65	4,720	3,380	4,370	94,228	0	0	165,243	92	3,190	3,282	168,525
1979	3,655	76,176	5,222	0	13,949	626	79	3,083	897	444	143	7,984	2,362	2,840	74,384	0	0	199,318	146	179	325	199,643
1980	5,267	40,967	1,630	0	24,689	3	129	1,057	1,752	163	784	4,373	880	5,507	78,035	0	0	165,951	118	0	118	165,969
1981	1,483	8,670	1,044	0	11,550	0	1,976	1,325	2,364	1,252	0	280	4,357	2,337	27,916	0	0	64,975	208	0	208	65,183

Table 8. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 19.0 during calendar years 1977-1981. Data based on MMR.

Year	Finfish										Shellfish											
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper	Snapper	Menhaden	Mackerel	Total	Blue crabs	Squid	Total	Grand total
1977	4,048	3,697	1,952	0	16,543	0	2,546	341	109	27	299	361	982	1,072	39,627	0	0	72,020	29	113	142	72,162
1978	1,341	2,094	1,021	0	3,451	6	47	34	165	76	61	169	920	2,174	63,698	0	0	75,269	0	13	13	75,282
1979	6,459	32,342	2,992	0	658	0	5	289	227	2,002	158	677	461	745	43,733	0	0	90,748	0	0	0	90,748
1980	2,583	9,437	382	0	1,998	167	0	243	47	500	117	737	259	2,418	114,454	0	0	133,344	0	0	0	133,344
1981	10,045	5,064	285	0	563	0	0	34	410	0	7	0	2,929	5,181	74,471	0	0	98,989	0	0	0	98,989

Table 9. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 20.0 during calendar years 1977-1981. Data based on MPR.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
1977	160	13	35	0	149	0	0	0	0	5	0	0	0	0	0	362	0	0	0	362
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 10. Ex-vessel (\$) of each species landed commercially from Gulf of Mexico grid area 21.0 during calendar years 1977-1981. Data based on MPR.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
1977	1,034	0	2,270	0	2,647	24	7	430	59	0	20	1,753	0	2,014	262,676	273,131	0	37	37	273,168
1978	39	0	596	0	1,262	472	12,227	169	43	1,917	448	829	0	3,217	243,850	265,188	0	0	0	265,188
1979	0	0	549	0	1,245	0	0	294	9	0	2,049	690	34	3,111	139,154	147,135	0	0	0	147,135
1980	258	0	1,018	0	2,260	0	0	10	15	0	196	42	0	1,549	157,616	162,964	0	0	0	162,964
1981	0	24,254	3,207	0	6,911	470	0	189	5	0	331	6,929	0	6,471	164,486	213,253	0	0	0	213,253

Table 11. Weight (lb x 1000) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during calendar years 1977-1981. Data based on MMPR.

Year	Brown and pink	White	Other	Total
1977	67,186.4	10,028.8	258.7	77,473.9
1978	57,240.3	13,171.5	332.3	70,744.1
1979	43,265.0	8,446.5	719.2	52,430.7
1980	50,300.6	7,422.1	1,325.6	59,048.3
1981	71,337.8	10,064.5	1,075.7	82,478.0

Table 12. Ex-vessel value (\$ x 1000) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during calendar years 1977-1981. Data based on MMPR.

Year	Brown and pink	White	Other	Total
1977	97,992.2	16,356.9	234.9	114,584.0
1978	99,880.9	28,144.5	344.5	128,369.9
1979	111,142.2	23,575.6	381.1	135,098.9
1980	107,142.1	15,570.3	431.8	123,144.2
1981	129,069.4	24,541.3	317.9	153,928.6

Appendix D. Total monthly commercial finfish and shellfish landings (lb) and ex-vessel value (\$) from Texas bay systems during calendar year 1981.

Table 1. Weight (lb) of each species landed commercially from Sabine Lake during calendar year 1981. Data based on MPR.

Month	Finfish											Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp				Blue crabs	Total				
														Brown and Pink	White	Other							
Jan.	123	0	0	0	0	0	0	0	0	0	0	0	123	0	0	0	0	0	780	0	0	780	903
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	900	0	0	900	900
Mar.	23	0	9	0	11	0	0	0	60	12	0	0	115	0	0	0	0	0	11,133	0	0	11,133	11,268
Apr.	124	0	153	0	15	0	0	12	0	0	0	230	534	0	0	0	0	0	6,834	0	0	6,834	7,368
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,684	0	0	2,684	2,684
June	0	0	0	0	38	0	0	59	94	0	0	0	191	9,090	0	0	0	0	10,350	0	0	10,350	19,631
July	0	0	0	0	0	0	0	0	0	0	0	0	0	3,174	0	0	0	0	200	0	0	3,174	3,174
Aug.	167	0	23	0	0	0	0	0	0	0	0	0	190	566	3,130	0	0	0	3,696	1,710	0	5,406	5,596
Sept.	0	0	0	0	32	0	0	5	71	0	0	0	45	153	0	9,092	0	0	9,092	1,800	0	10,892	11,045
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,408	0	0	17,408	10,689	0	0	28,097	28,097
Nov.	0	0	34	24	16	0	0	0	0	0	0	0	74	0	13,618	0	0	13,618	25,544	0	0	39,162	39,236
Dec.	0	0	0	0	7	0	0	0	13	0	0	0	20	0	0	0	0	0	0	0	0	0	20
1981	437	0	219	24	119	0	0	76	238	12	0	230	1,400	12,830	43,248	0	0	56,078	72,624	0	0	128,702	130,102

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 2. Weight (lb) of each species landed commercially from the Galveston Bay system during calendar year 1981. Data based on MPR.

Month	Finfish											Shellfish					Grand total							
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp				Blue crabs	Total					
														Brown and Pink	White	Other								
Jan.	210	2,469	6,055	0	60	0	0	5,042	0	3,050	0	656	17,542	0	4,727	0	4,727	2,122	141,980	0	0	148,829	166,371	
Feb.	524	2,431	3,062	0	174	0	0	2,176	7	0	0	694	9,068	0	2,608	0	2,608	10,814	80,879	0	0	94,301	103,369	
Mar.	798	7,861	6,335	0	258	0	186	2,845	188	0	0	2,158	20,637	0	869	0	869	9,284	50,241	0	0	60,394	81,031	
Apr.	834	29,106	5,291	0	190	0	1,245	1,765	14	413	0	909	2,442	42,209	67	24,973	0	25,040	16,761	57,616	0	0	99,417	141,626
May	1,352	15,248	839	0	496	18	421	2,871	191	26	0	343	1,028	22,833	615,669	40,032	0	655,701	61,910	56,219	0	0	773,830	796,663
June	1,832	14,068	12,259	0	439	105	897	12,248	94	0	0	824	864	43,630	840,172	8,738	0	848,910	252,767	36,971	0	1,138,648	1,182,278	
July	198	3,582	990	26	345	0	126	1,319	89	223	0	198	6,976	17,130	6,047	0	419,394	80,349	21,893	0	0	521,636	528,612	
Aug.	384	3,060	6,405	13	493	184	666	2,237	99	0	0	1,840	548	17,324	2,241	827,359	0	94,736	39,825	16,153	0	1,003,714	1,020,844	
Sept.	0	0	3,605	25	3,780	273	129	7,133	191	0	0	2,528	2,761	17,919	691,089	0	693,330	43,639	13,825	0	0	750,794	768,318	
Oct.	0	0	2,234	55	4,609	75	0	5,136	521	0	0	2,528	22,629	532	433,346	0	433,346	40,640	12,565	0	0	486,551	504,470	
Nov.	0	0	3,000	0	9,377	0	0	6,062	859	271	0	1,007	594	6,326	403,344	0	403,344	36,167	204,906	0	0	644,417	667,046	
Dec.	0	0	1,755	0	389	5	0	2,542	34	0	0	0	212,175	0	212,175	0	212,175	15,404	258,406	0	0	485,985	492,311	
1981	6,042	77,825	51,830	119	20,610	660	3,670	51,376	2,287	3,985	0	16,864	244,423	1,991,873	2,655,307	0	4,647,180	609,682	951,654	0	0	6,208,516	6,452,939	

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 3. Weight (lb) of each species landed commercially from East Matagorda Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish													Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Brown and Pink	Total		Blue crabs	Oysters	Squid	Total
														White	Other	Total							
Jan.	816	1,321	348	0	28	0	0	0	0	0	0	0	2,513	0	0	0	0	35,554	8,167	0	43,721	46,234	
Feb.	135	954	65	0	31	0	0	0	0	0	0	0	1,185	0	0	0	0	26,182	6,387	0	32,569	33,754	
Mar.	0	1,109	0	0	5	0	0	0	0	0	0	0	1,114	0	0	0	0	12,038	0	0	12,038	13,152	
Apr.	120	2,095	135	0	33	0	0	0	0	0	0	0	2,383	0	0	0	0	4,200	0	0	4,200	6,583	
May	123	51	3	0	9	0	0	0	0	0	0	0	186	0	0	0	0	7,065	0	0	7,065	7,251	
June	234	539	139	32	0	0	0	26	0	0	0	0	970	0	0	0	0	0	0	0	0	970	
July	483	1,014	411	0	59	0	0	0	0	0	0	0	1,967	0	0	0	0	0	0	0	0	1,967	
Aug.	588	583	126	0	48	0	0	0	0	0	0	0	1,345	0	0	0	0	0	0	0	0	1,345	
Sept.	0	0	67	11	43	9	28	2	6	0	0	0	166	0	0	0	0	2,568	0	0	2,568	2,734	
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nov.	0	0	93	20	13	0	0	22	0	0	0	0	148	0	0	0	0	90	0	0	90	238	
Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1981	2,499	7,566	1,387	63	269	9	28	50	6	0	0	0	11,977	0	0	0	0	83,497	27,504	0	111,001	122,978	

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 4. Weight (lb) of each species landed commercially from Matagorda Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish													Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Brown and Pink	Total		Blue crabs	Oysters	Squid	Total
														White	Other	Total							
Jan.	358	1,664	75	0	7	0	0	0	0	0	0	0	2,104	0	2,788	0	2,788	491	22,014	0	25,293	27,397	
Feb.	8,747	3,226	4,471	0	50	0	0	289	0	18,274	0	0	35,037	0	0	0	0	3,016	14,463	0	17,479	52,516	
Mar.	799	2,920	930	0	0	0	0	0	0	0	0	0	4,649	0	391	0	391	17,143	26,161	0	43,695	48,344	
Apr.	0	172	0	0	0	0	0	0	0	0	0	0	172	4,209	12,275	0	16,484	24,298	437	0	41,219	41,391	
May	47	221	121	0	0	0	24	0	0	0	0	0	413	493,589	37,551	0	531,140	73,270	0	0	604,410	604,823	
June	261	147	66	0	70	0	0	0	0	0	0	0	599	865,851	1,785	0	867,636	85,039	0	0	952,675	953,274	
July	261	118	136	0	33	0	8	0	0	0	0	2	558	157,775	334	0	158,109	61,000	0	0	219,109	219,667	
Aug.	256	209	221	0	40	0	6	5	0	0	0	3	740	0	183,175	0	183,175	50,637	0	0	233,812	234,552	
Sept.	0	0	0	0	30	0	0	0	0	20	0	0	50	0	396,033	0	396,033	14,695	0	0	410,728	410,778	
Oct.	0	0	11	0	65	3	3	3	1	66	0	5	157	0	536,918	0	536,918	17,719	0	0	554,637	554,794	
Nov.	0	0	0	0	215	0	0	0	0	19	0	0	234	0	315,627	0	315,627	6,874	11,235	0	333,736	333,970	
Dec.	0	0	16	0	43	0	0	10	0	0	0	0	69	0	259,438	0	259,438	13,907	14,349	0	287,694	287,763	
1981	10,729	8,677	6,047	0	553	3	41	287	1	18,379	0	10	44,782	1,521,424	1,746,315	0	3,267,739	368,089	88,659	0	3,724,487	3,769,269	

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 3. Weight (lb) of each species landed commercially from San Antonio Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish												Shellfish					Grand Total			
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs	Total				
													Brown and Pink	White	Other						
Jan.	13,946	14,463	3,289	0	373	0	0	0	0	30,358	0	0	62,429	0	0	0	84,967	69,221	0	154,188	216,617
Feb.	5,368	2,147	682	0	23	0	0	102	0	0	0	0	8,322	0	0	0	36,394	13,527	0	49,921	58,243
Mar.	5,793	1,231	1,447	0	205	0	0	1,118	0	0	0	0	9,794	0	0	0	49,306	38,429	0	87,735	97,529
Apr.	272	711	278	0	0	0	0	235	0	0	0	0	1,496	0	8,864	0	51,020	140,488	15,359	206,867	208,363
May	5,408	1,968	1,853	0	22	0	0	568	0	0	0	0	8,919	0	174,796	235,998	0	0	0	410,794	419,713
June	7,604	361	1,182	0	133	0	28	393	0	0	0	0	9,681	0	458,446	273,747	0	0	0	732,193	741,874
July	8,021	292	1,141	0	2,898	0	0	523	0	0	0	0	12,875	0	61,510	641,363	0	0	0	502,873	515,748
Aug.	336	0	11	0	2,968	0	0	0	0	23	0	0	3,338	0	73,283	437,450	0	0	0	510,733	514,071
Sept.	0	0	24	0	888	0	0	0	0	0	0	0	912	0	147,756	484,640	0	0	0	632,396	633,308
Oct.	0	0	0	0	659	0	0	0	0	0	0	0	659	0	214,548	440,963	0	0	0	655,511	656,170
Nov.	0	0	0	0	2,845	0	0	0	0	0	0	0	2,845	0	108,916	338,153	4,594	0	0	451,663	454,508
Dec.	0	0	0	0	412	0	0	0	0	0	0	0	412	0	33,650	247,588	1,511	0	0	282,749	283,161
1981	46,748	20,273	9,887	0	11,426	0	28	2,939	0	30,381	0	0	121,682	0	736,031	587,894	1,323,925	1,738,402	0	4,677,623	4,799,305

NOTE: Shrimp landings are furnished to TPFD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 4. Weight (lb) of each species landed commercially from Aransas Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish												Shellfish					Grand Total			
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Shrimp			Blue crabs	Total				
													Brown and Pink	White	Other						
Jan.	7,556	2,294	3,399	0	102	0	0	1,276	0	420	0	0	15,047	0	0	0	66,240	16,813	0	83,053	98,100
Feb.	2,855	2,172	2,138	0	144	0	0	1,897	0	3	0	0	9,209	0	0	0	49,486	20,948	0	70,434	79,643
Mar.	2,906	2,738	1,165	74	1,297	0	34	421	0	0	0	0	8,635	299	0	0	32,610	10,797	0	43,706	52,341
Apr.	1,016	2,960	729	0	141	0	183	454	0	0	0	0	5,483	40,815	0	0	40,815	117,824	3,416	162,055	167,538
May	4,451	13,842	2,498	0	162	0	63	437	0	0	0	0	21,453	708,314	0	0	722,669	130,500	0	934,995	956,448
June	5,961	8,598	3,417	0	1,103	0	12	346	0	0	0	0	19,437	722,669	0	0	722,669	130,500	0	853,169	872,606
July	3,063	3,377	523	0	19	0	0	0	0	0	0	53	7,035	247,911	0	0	247,911	90,919	0	338,830	345,865
Aug.	609	4,911	81	0	224	0	17	69	0	0	0	0	5,911	4,171	0	82,215	27,644	0	109,859	115,770	
Sept.	0	0	12	0	259	0	0	66	0	0	0	0	337	4,171	233,499	0	237,670	95,320	0	332,990	333,327
Oct.	0	0	1,548	0	873	3	52	74	0	0	0	0	2,550	4,593	202,006	0	206,599	131,854	0	338,453	341,003
Nov.	0	0	2,846	0	38,176	0	0	913	0	0	0	0	41,935	3,191	141,421	0	144,612	50,268	6,545	201,425	243,360
Dec.	0	0	1,282	0	2,107	0	0	20,871	0	2,774	0	0	27,034	12,453	67,552	0	80,005	719,056	3,850	802,911	829,945
1981	28,417	40,892	19,638	74	44,607	3	361	26,824	0	3,197	0	53	166,066	1,744,416	726,693	0	2,471,109	1,738,402	62,369	4,271,880	4,435,946

NOTE: Shrimp landings are furnished to TPFD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 7. Weight (lb) of each species landed commercially from Corpus Christi Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gulfop sail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap		Brown and Pink	Shrimp			Blue crabs	Total		
												Total	Other		White	Other				Total	
Jan.	4,704	4,133	13,980	0	282	0	0	6,635	179	10,572	0	0	40,485	0	0	0	856	0	856	41,341	
Feb.	7,337	4,384	12,956	171	126	0	0	8,523	0	12,952	0	0	46,449	705	0	0	1,199	0	1,904	48,353	
Mar.	11,958	31,188	14,132	15,420	322	28	1,214	32,067	0	0	0	69	106,398	4,699	0	0	4,699	856	0	111,953	
Apr.	5,411	15,405	2,100	0	112	0	80	1,792	0	68	0	0	25,968	169,546	0	0	169,546	1,037	0	170,583	
May	9,731	26,955	2,485	0	47	0	988	366	0	0	0	128	38,800	493,455	365	0	493,820	1,257	0	495,077	
June	6,917	8,293	1,274	0	171	0	8	350	0	0	0	0	17,013	340,015	146	0	340,161	671	0	340,832	
July	3,800	10,402	1,771	0	356	0	40	56	0	0	0	0	16,425	75,519	0	0	75,519	0	0	75,519	
Aug.	7,063	11,126	4,160	195	118	8	196	586	0	0	0	0	23,452	18,653	18,771	0	37,424	1,120	0	38,544	
Sept.	0	0	747	0	817	3	34	655	0	0	0	0	2,256	2,083	69,255	0	71,338	650	0	71,988	
Oct.	0	0	1,508	0	623	0	0	136	0	0	0	0	2,367	7,367	107,036	0	114,403	60	0	114,463	
Nov.	0	0	960	129	1,832	36	0	238	0	0	0	0	3,195	26,008	95,318	0	119,326	17	0	119,343	
Dec.	0	0	1,901	21	1,142	0	0	523	0	0	0	0	3,587	13,631	45,651	0	59,282	0	0	59,282	
1981	56,921	110,986	58,074	15,936	5,948	75	2,560	51,927	179	23,592	0	128	69	326,395	1,149,681	336,542	0	1,486,223	7,723	0	1,493,946

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 8. Weight (lb) of each species landed commercially from the upper Laguna Madre system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total			
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gulfop sail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap		Brown and Pink	Shrimp			Blue crabs	Total	
												Total	Other		White	Other				Total
Jan.	31,737	15,313	45,723	1	696	21	0	12,087	0	0	0	0	105,578	0	0	0	0	0	0	105,578
Feb.	12,895	7,165	30,971	4	198	62	0	5,717	0	2	0	0	56,954	0	0	0	0	0	0	56,954
Mar.	14,955	15,700	110,017	0	265	1	12	3,613	0	0	0	0	144,563	0	0	0	0	0	0	144,563
Apr.	24,575	23,091	81,029	0	116	17	0	2,981	0	0	0	0	131,809	0	0	0	0	0	0	131,809
May	9,633	14,727	13,399	0	9	13	3	716	0	0	0	0	38,500	0	0	0	0	0	0	38,500
June	12,335	24,753	2,265	0	258	281	9	497	0	0	0	0	40,398	0	0	0	0	0	0	40,398
July	20,228	27,167	11,247	3	139	286	54	345	0	0	3	0	59,472	0	0	0	0	0	0	59,472
Aug.	2,261	9,832	3,158	33	90	20	15	608	0	0	0	0	16,017	0	0	0	0	0	0	16,017
Sept.	0	0	9,514	4	668	50	0	431	0	0	0	0	10,667	0	0	0	0	0	0	10,667
Oct.	0	0	24,245	20	1,532	180	0	5,466	4	0	9	0	31,456	0	0	0	0	0	0	31,456
Nov.	0	0	7,676	0	584	0	0	1,256	0	0	3	0	9,519	0	0	0	0	0	0	9,519
Dec.	0	0	4,473	0	476	0	0	1,589	0	0	0	0	6,538	0	0	0	0	0	0	6,538
1981	128,559	137,748	343,717	65	5,031	931	93	35,306	4	2	15	0	651,471	0	0	0	0	0	0	651,471

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 9. Weight (lb) of each species landed commercially from Lower Laguna Madre system during calendar year 1981. Data based on MMR.

Month	Finfish													Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum seatrout	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Strip	Total	Shrimp			Blue crabs	Oysters		Squid	Total		
														Brown and Pink	White	Other							
Jan.	41,947	21,567	20,139	0	172	0	0	3,383	0	0	0	0	87,208	0	0	0	0	55,103	0	0	0	55,103	142,311
Feb.	23,911	26,920	20,651	0	194	176	0	8,380	3	0	3	194	80,432	0	0	0	0	16,882	0	0	0	16,882	97,314
Mar.	17,647	28,151	30,382	0	51	0	0	3,217	0	0	0	2	79,450	0	0	0	0	10,396	0	0	0	10,396	89,846
Apr.	39,052	45,257	8,996	0	147	34	0	1,063	0	0	11	32	94,696	0	0	0	0	38,725	0	0	0	38,725	133,421
May	36,939	15,091	4,469	0	29	0	0	267	0	0	5	0	55,800	0	0	0	0	41,806	0	0	0	41,806	97,606
June	56,077	16,982	3,888	0	199	29	0	242	0	0	12	108	77,598	0	0	0	0	101,892	0	0	0	101,892	179,490
July	53,549	22,387	11,213	0	607	0	0	426	0	0	64	206	88,352	0	0	0	0	135,274	0	0	0	135,274	223,626
Aug.	51,080	27,732	26,267	0	1,119	262	3	1,996	0	0	8	908	109,375	0	0	0	0	136,622	0	0	0	136,622	245,997
Sept.	0	0	4,198	0	1,398	0	0	62	0	0	0	95	5,753	0	0	0	0	117,168	0	0	0	117,168	122,921
Oct.	0	0	7,017	0	1,225	25	0	356	0	0	58	0	8,862	0	0	0	0	128,388	0	0	0	128,388	137,250
Nov.	0	0	8,677	0	2,437	0	0	805	0	5,700	22	12	17,653	0	0	0	0	0	0	0	0	0	17,653
Dec.	0	0	11,757	0	3,277	0	0	4,573	0	0	0	94	19,701	0	0	0	0	32,831	0	0	0	32,831	52,532
1981	320,202	202,987	157,654	0	10,855	526	3	24,770	3	5,700	183	1,651	724,880	0	0	0	0	815,087	0	0	0	815,087	1,539,967

NOTE: Shrimp landings are furnished to TPMD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 12. Ex-vessel value (\$) of each species landed commercially from East Matagorda Bay system during calendar year 1981. Data based on MPR.

Month	Finfish													Shellfish					Grand total			
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Blue crabs	Oysters		Squid	Total	
														Brown and Pink	White	Other						
Jan.	875	1,189	213	0	27	0	0	0	0	0	0	0	2,304	0	0	0	0	9,490	13,076	0	22,566	24,870
Feb.	128	906	29	0	29	0	0	0	0	0	0	0	1,092	0	0	0	0	6,807	10,403	0	17,210	18,302
Mar.	0	1,054	0	0	5	0	0	0	0	0	0	0	1,059	0	0	0	0	3,130	0	0	3,130	4,189
Apr.	114	1,990	61	0	31	0	0	0	0	0	0	0	2,196	0	0	0	0	0	7,200	0	7,200	9,396
May	117	48	2	0	9	0	0	0	0	0	0	0	176	0	0	0	0	2,826	0	0	2,826	3,002
June	269	620	83	0	37	0	16	0	0	0	0	0	1,025	0	0	0	0	0	0	0	0	1,025
July	555	1,166	287	0	68	0	0	0	0	0	0	0	2,036	0	0	0	0	0	0	0	0	2,036
Aug.	676	670	76	0	55	0	0	0	0	0	0	0	1,477	0	0	0	0	0	0	0	0	1,477
Sept.	0	0	64	10	62	7	21	2	5	0	0	0	171	0	0	0	0	1,284	0	0	1,284	1,455
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov.	0	0	131	11	19	0	17	0	0	0	0	0	178	0	0	0	0	41	0	0	41	219
Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,125	0	13,125	13,125
1981	2,734	7,643	906	21	362	7	21	35	5	0	0	0	11,714	0	0	0	0	23,578	43,804	0	67,382	79,096

Note: Trap values are furnished to TPWD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 13. Ex-vessel value (\$) of each species landed commercially from Matagorda Bay system during calendar year 1981. Data based on MPR.

Month	Finfish													Shrimp					Grand total			
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp			Blue crabs	Oysters		Squid	Total	
														Brown and Pink	White	Other						
Jan.	340	1,498	30	0	7	0	0	0	0	0	0	0	1,875	0	2,248	0	2,248	128	34,324	0	36,700	38,575
Feb.	8,723	3,184	2,429	0	48	0	40	0	924	0	0	0	15,348	0	0	0	0	784	17,672	0	18,456	33,804
Mar.	919	3,358	512	0	0	0	0	0	0	0	0	0	4,789	0	669	0	669	4,457	40,860	0	45,986	50,775
Apr.	0	206	0	0	0	0	0	0	0	0	0	0	206	7,310	29,215	0	36,525	6,317	675	0	43,517	43,723
May	48	210	75	0	0	0	8	0	0	0	0	0	341	257,744	45,584	0	303,328	19,050	0	0	322,378	322,719
June	300	159	40	0	90	0	0	0	0	0	0	6	605	575,919	6,058	0	581,977	22,110	0	0	604,087	604,692
July	300	131	78	0	39	0	6	0	0	0	1	0	555	114,905	1,059	0	115,964	15,860	0	0	131,824	132,379
Aug.	294	236	134	0	47	0	5	4	0	0	2	0	722	0	246,621	0	246,621	13,263	0	0	259,884	260,606
Sept.	0	0	0	0	39	0	0	0	0	1	0	0	40	0	660,140	0	660,140	3,821	0	0	663,961	664,001
Oct.	0	0	8	0	93	2	2	2	1	7	0	4	119	0	764,385	0	764,385	4,644	0	0	769,029	769,148
Nov.	0	0	0	0	258	0	0	0	0	7	0	0	265	0	257,231	0	257,231	1,788	15,324	0	274,363	274,608
Dec.	0	0	12	0	62	0	0	8	0	0	0	0	82	0	220,181	0	220,181	3,616	21,493	0	245,290	245,372
1981	10,924	8,992	3,318	0	683	2	21	54	1	939	0	7	24,947	955,878	2,233,391	0	3,189,269	95,838	130,348	0	3,415,455	3,440,402

Note: Shrimp values are furnished to TPWD by NMFS, Division of Statistice-Market News, Galveston, Texas, and are preliminary.

Table 14. Ex-vessel value (\$) of each species landed commercially from San Antonio Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp				Blue crabs	Total		
														Brown and Pink	White	Other					
Jan.	11,854	12,294	1,151	0	317	0	0	0	0	1,518	0	0	27,134	0	0	0	24,932	95,184	0	120,136	147,270
Feb.	5,637	2,254	443	0	24	0	0	20	0	0	0	0	8,378	0	0	0	10,709	19,143	0	29,852	38,230
Mar.	5,083	1,293	724	0	227	0	0	168	0	0	0	0	8,495	0	0	0	15,312	52,088	0	67,400	75,895
Apr.	313	817	153	0	0	0	0	82	0	0	0	0	1,365	13,473	0	75,864	45,723	20,747	0	142,334	143,699
May	5,755	1,331	1,297	0	26	0	0	170	0	0	0	0	9,579	438	0	108,710	79,955	0	0	188,665	198,244
June	10,233	459	867	0	154	0	11	118	0	0	0	0	11,862	2,399	0	258,729	82,124	0	0	340,853	352,715
July	9,625	350	796	0	3,350	0	0	179	0	0	0	0	14,300	34,446	0	34,446	111,498	0	0	145,944	160,244
Aug.	386	0	4	0	3,442	0	0	0	0	1	0	0	3,833	101,131	0	101,131	95,805	0	0	196,936	200,769
Sept.	0	0	11	0	1,021	0	0	0	0	0	0	0	1,032	153,666	0	153,666	104,004	0	0	257,670	258,702
Oct.	0	0	0	0	758	0	0	0	0	0	0	0	758	178,075	0	178,075	94,647	0	0	272,722	271,480
Nov.	0	0	0	0	3,272	0	0	0	0	0	0	0	3,272	68,617	0	68,617	70,685	4,716	0	144,018	147,290
Dec.	0	0	0	0	474	0	0	0	0	0	0	0	474	20,190	0	20,190	62,315	2,808	0	85,313	85,787
1981	50,906	13,798	5,446	0	13,065	0	11	737	0	1,519	0	0	90,482	537,989	0	999,428	797,729	194,686	0	1,991,843	2,082,325

Shrimp values are furnished to FPOD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 15. Ex-vessel value (\$) of each species landed commercially from Aransas Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Shrimp				Blue crabs	Total		
														Brown and Pink	White	Other					
Jan.	6,197	2,019	1,694	0	97	0	0	136	0	42	0	0	10,185	0	0	0	16,896	29,346	0	46,242	56,427
Feb.	2,781	2,147	1,283	0	149	0	0	199	0	0	0	0	6,539	0	0	0	13,499	27,389	0	40,888	47,447
Mar.	3,033	2,939	686	11	1,366	0	7	98	0	0	0	0	8,140	389	0	389	10,418	14,165	0	24,972	33,112
Apr.	1,090	3,154	402	0	148	0	37	54	0	0	0	0	4,885	64,488	0	64,488	36,224	5,330	0	106,042	110,927
May	5,353	16,611	1,477	0	193	0	18	87	0	0	0	0	23,739	354,157	0	354,157	60,460	0	0	414,617	438,356
June	8,093	11,460	2,417	0	1,438	0	3	89	0	0	0	0	23,410	325,201	0	325,201	34,150	0	0	359,351	382,761
July	3,620	4,126	308	0	23	0	0	0	0	0	13	0	8,090	163,621	0	163,621	23,642	0	0	187,263	195,353
Aug.	761	6,123	53	0	277	0	3	15	0	0	0	0	7,232	0	0	97,014	7,208	0	0	104,222	111,454
Sept.	0	0	8	0	328	0	0	20	0	0	0	0	356	2,419	0	340,909	343,328	25,737	0	369,065	369,421
Oct.	0	0	1,267	0	1,041	1	23	21	0	0	0	0	2,353	2,526	0	234,327	236,853	40,981	0	277,834	280,187
Nov.	0	0	1,977	0	46,694	0	0	228	0	0	0	0	48,899	3,191	0	152,735	155,926	12,670	9,276	177,872	226,771
Dec.	0	0	771	0	1,697	0	0	5,204	0	416	0	0	8,088	9,340	0	51,340	60,680	265,326	6,150	332,156	340,244
1981	30,838	48,579	12,343	11	53,651	1	91	6,151	0	458	0	13	151,936	925,332	0	1,801,657	547,211	91,656	0	2,440,524	2,592,460

Shrimp values are furnished to FPOD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Table 16. Ex-vessel value (\$) of each species landed commercially from Corpus Christi Bay system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total						
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Brown and Pink	Shrimp			Blue crabs	Total				
															White	Other				Total			
Jan.	4,210	3,745	7,430	0	240	0	0	781	9	949	0	0	17,364	0	0	0	0	0	428	0	428	17,792	
Feb.	7,535	4,318	7,890	34	129	0	0	929	0	1,166	0	0	22,001	811	0	0	0	0	600	0	1,411	23,412	
Mar.	12,732	33,023	7,613	2,313	339	4	243	5,075	0	0	0	10	61,352	7,236	0	0	0	0	7,236	428	0	7,664	69,016
Apr.	7,511	17,185	1,232	0	127	0	21	400	0	3	0	0	26,479	208,730	0	0	0	0	208,730	519	0	209,249	235,728
May	10,676	31,836	1,462	0	60	0	343	88	0	0	26	0	44,491	288,562	1,091	0	0	0	289,653	629	0	290,282	334,773
June	9,299	10,530	887	0	226	0	1	93	0	0	0	0	21,936	176,257	469	0	0	0	176,726	336	0	177,062	198,098
July	5,916	13,605	1,333	0	468	0	9	14	0	0	0	0	20,445	45,753	0	0	0	0	45,753	0	0	45,753	66,198
Aug.	8,826	13,826	2,864	59	141	2	42	145	0	0	0	0	25,905	11,565	19,421	0	0	30,986	560	0	31,546	57,451	
Sept.	0	0	596	0	995	1	15	127	0	0	0	0	1,734	1,516	96,207	0	0	97,723	321	0	98,044	99,778	
Oct.	0	0	1,281	0	735	0	0	34	0	0	0	0	2,050	5,967	142,556	0	0	148,523	24	0	148,547	150,597	
Nov.	9	0	714	32	1,522	9	0	59	0	0	0	0	2,336	29,370	135,891	0	0	165,261	7	0	165,268	167,604	
Dec.	0	0	1,086	6	1,047	0	0	117	0	0	0	0	2,256	12,266	44,063	0	0	56,329	0	0	56,329	58,585	
1981	65,805	128,068	34,388	2,444	6,029	16	674	7,862	9	2,118	0	26	267,449	788,033	439,698	0	0	1,227,731	3,852	0	1,231,583	1,479,032	

Shrimp values are furnished to TPFD by NMFS, Division of Statistica-Market News, Galveston, Texas, and are preliminary.

Table 17. Ex-vessel value (\$) of each species landed commercially from upper Laguna Madre system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Brown and Pink	Shrimp			Blue crabs	Total			
															White	Other				Total		
Jan.	25,577	14,548	20,803	0	662	5	0	2,415	0	0	0	0	65,010	0	0	0	0	0	0	0	0	65,010
Feb.	12,540	7,907	17,205	1	197	13	0	1,125	0	0	0	0	38,088	0	0	0	0	0	0	0	0	38,088
Mar.	15,399	16,251	60,923	0	275	0	2	694	0	0	0	0	93,544	0	0	0	0	0	0	0	0	93,544
Apr.	27,691	25,895	48,080	0	130	3	0	488	0	0	0	0	102,277	0	0	0	0	0	0	0	0	102,277
May	9,839	14,954	8,698	0	8	3	0	143	0	0	0	0	33,645	0	0	0	0	0	0	0	0	33,645
June	15,833	31,088	1,547	0	348	56	2	112	0	0	0	0	48,986	0	0	0	0	0	0	0	0	48,986
July	26,252	33,978	8,015	1	187	71	14	86	0	0	4	0	68,618	0	0	0	0	0	0	0	0	68,618
Aug.	2,918	12,536	2,053	10	113	4	3	122	0	0	0	0	17,759	0	0	0	0	0	0	0	0	17,759
Sept.	0	0	7,034	1	842	20	0	118	0	0	0	0	8,015	0	0	0	0	0	0	0	0	8,015
Oct.	0	0	16,654	5	1,717	48	0	1,387	1	0	14	0	19,826	0	0	0	0	0	0	0	0	19,826
Nov.	0	0	5,227	0	628	0	0	318	0	0	3	0	6,176	0	0	0	0	0	0	0	0	6,176
Dec.	0	0	2,901	0	497	0	0	450	0	0	0	0	3,848	0	0	0	0	0	0	0	0	3,848
1981	137,059	156,247	199,140	18	5,604	223	21	7,458	1	0	21	0	505,792	788,033	439,698	0	0	1,227,731	3,852	0	1,231,583	1,479,032

Shrimp values are furnished to TPFD by NMFS, Division of Statistica-Market News, Galveston are preliminary.

Table 18. Ex-vessel value (\$) of each species landed commercially from lower Laguna Madre system during calendar year 1981. Data based on NMFS.

Month	Finfish											Shellfish					Grand total			
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Total	Brown and Pink	Shrimp	Blue crabs		Oysters	Squid	Total
Jan.	36,211	19,399	8,979	0	164	0	0	436	0	0	0	0	65,189	0	0	16,531	0	0	16,531	81,720
Feb.	23,238	26,049	10,175	0	186	26	0	1,214	1	0	5	39	60,933	0	0	5,065	0	0	5,065	65,998
Mar.	19,320	30,296	12,349	0	58	0	0	322	0	0	0	1	62,346	0	0	3,119	0	0	3,119	65,465
Apr.	44,923	32,412	6,093	0	166	7	0	165	0	13	8	16	103,803	0	0	10,726	0	0	10,726	114,529
May	56,053	16,434	2,954	0	35	0	0	62	0	9	0	0	65,547	0	0	14,632	0	0	14,632	80,179
June	71,751	21,118	2,765	0	251	4	0	33	0	19	22	6	95,949	0	0	33,624	0	0	33,624	129,573
July	58,538	28,940	7,862	0	790	0	0	80	0	109	53	0	106,352	0	0	36,524	0	0	36,524	142,876
Aug.	63,142	32,105	17,878	0	1,402	52	1	411	0	10	137	0	115,138	0	0	40,987	0	0	40,987	156,125
Sept.	0	0	2,939	0	1,817	0	0	12	0	0	14	0	4,792	0	0	35,151	0	0	35,151	39,933
Oct.	0	0	4,218	0	1,611	5	0	71	0	99	0	36	5,840	0	0	28,081	0	0	28,081	33,921
Nov.	0	0	4,339	0	2,285	0	0	161	0	570	37	2	7,394	0	0	0	0	0	0	7,394
Dec.	0	0	5,379	0	3,049	0	0	915	0	0	14	0	9,857	0	0	9,850	0	0	9,850	19,707
1981	373,376	226,753	86,390	0	11,614	94	1	3,882	1	570	301	290	58	703,330	0	234,290	0	0	234,290	937,620

NOTE: Shrimp values are furnished to TRPD by NMFS, Division of Statistics-Market News, Galveston, Texas, and are preliminary.

Appendix E. Total monthly commercial finfish and shellfish (except shrimp) landings (lb) and ex-vessel value (\$) from the Gulf of Mexico grid areas for calendar year 1981.

Table 1. Weight (lb) of each species landed commercially from Gulf of Mexico grid area 17.0 during calendar year 1981. Data based on MMR.

Year	Finfish											Shellfish			Grand total										
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total					
Jan.	0	0	0	0	2	0	0	0	0	38	61	0	285	0	4	0	0	0	0	390	0	0	0	390	
Feb.	0	0	0	0	577	0	0	0	0	859	0	0	50	0	0	0	0	0	0	1,486	0	0	0	1,486	
Mar.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Apr.	0	0	0	0	59	0	562	315	0	558	0	0	0	0	0	0	0	0	0	1,494	0	0	0	1,494	
May	0	0	57	0	98	29	0	71	0	0	0	0	0	0	0	0	0	0	0	255	605	0	0	605	
June	0	0	0	0	42	0	0	0	8	0	0	0	0	0	0	0	0	0	0	50	0	0	0	50	
July	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2,199	0	0	2,199	
Aug.	93	36	14	0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208	2,725	0	0	2,725	
Sept.	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	80	
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nov.	0	0	0	0	1,601	0	0	146	345	0	0	0	180	0	0	0	0	0	0	235	2,507	331	0	331	2,838
Dec.	0	0	0	0	278	0	0	0	0	0	0	0	0	0	0	0	0	0	0	278	0	0	0	278	
1981	93	36	71	0	2,816	29	562	532	1,250	619	0	515	0	4	235	6,762	5,860	0	0	5,860	0	0	0	5,860	

Table 2. Weight (lb) of each species landed commercially from Gulf of Mexico grid area 18.0 during calendar year 1981. Data based on MMR.

Year	Finfish											Shellfish			Grand total									
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total				
Jan.	0	0	107	0	1,097	0	0	87	236	1,753	0	0	141	1,374	2,568	7,363	0	0	0	0	0	0	0	7,363
Feb.	0	0	78	0	432	0	0	185	0	0	0	0	110	362	1,035	2,202	0	0	0	0	0	0	0	2,202
Mar.	0	0	2,907	0	876	0	0	2,496	13	1,214	0	391	68	535	1,144	9,644	0	0	0	0	0	0	0	9,644
Apr.	0	0	722	0	1,511	0	0	1,504	0	0	0	0	14	339	2,195	6,285	519	0	0	0	0	0	0	6,804
May	0	329	238	0	572	0	0	588	1,814	0	0	752	176	237	871	6,085	0	0	0	0	0	0	0	6,085
June	1,141	2,162	628	0	701	0	34	57	1,231	2,363	0	42	56	178	868	9,759	0	0	0	0	0	0	0	9,759
July	0	4,283	0	0	1,348	0	0	0	1,741	2,681	0	13	3,575	1,247	2,446	17,334	0	0	0	0	0	0	0	17,334
Aug.	0	356	0	0	108	0	1,559	0	0	0	0	2,974	867	16	330	6,210	0	0	0	0	0	0	0	6,210
Sept.	0	0	92	0	1,039	0	0	12	585	1,000	0	0	1,919	220	3,394	8,261	0	0	0	0	0	0	0	8,291
Oct.	0	0	100	0	3,487	0	488	1,337	3,082	870	0	0	933	166	1,820	12,283	0	0	0	0	0	0	0	12,283
Nov.	0	0	0	0	95	0	0	0	0	0	0	260	70	104	1,188	1,717	0	0	0	0	0	0	0	1,717
Dec.	0	0	28	0	5,378	0	0	391	1,476	0	0	238	118	18	3,137	10,784	0	0	0	0	0	0	0	10,784
1981	1,141	7,130	4,900	0	16,644	0	2,081	6,657	10,178	9,881	0	1,067	4,167	4,796	20,996	97,927	519	0	0	519	0	0	0	98,446

Table 3. Weight (lb.) of each species landed commercially from Gulf of Mexico grid area 19.0 during calendar year 1981. Data based on MPR.

Year	Finfish											Shellfish				Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper	Snapper		Total	Blue crabs	Squid	Total
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	0	3,275	20,391	23,666	0	0	0	23,666
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	536	6,557	7,093	0	0	0	7,093
Mar.	42	116	0	0	7	0	0	0	0	5	0	0	0	3,877	3,828	7,875	0	0	0	7,875
Apr.	0	0	1,262	0	0	0	0	0	0	0	0	0	0	2,872	2,578	6,712	0	0	0	6,712
May	214	3,921	7	0	32	0	0	102	0	0	0	0	0	0	0	4,276	0	0	0	4,276
June	5,128	0	1	0	0	0	0	0	0	0	0	0	0	63	833	6,025	0	0	0	6,025
July	2,344	33	20	0	0	0	0	0	0	0	0	0	21	2,325	4,743	4,743	0	0	0	4,743
Aug.	0	0	66	0	81	0	0	0	2,049	0	0	0	0	0	8,177	15,282	0	0	0	15,282
Sept.	0	0	0	0	162	0	0	0	0	0	0	0	204	1,913	2,623	2,623	0	0	0	2,623
Oct.	0	0	0	0	56	0	0	0	0	0	0	0	161	0	194	411	0	0	0	411
Nov.	0	0	0	0	81	0	0	0	0	0	0	0	0	0	2,395	2,476	0	0	0	2,476
Dec.	0	0	0	0	190	0	0	0	0	0	0	0	0	0	395	585	0	0	0	585
1981	7,728	4,070	1,356	0	609	0	0	102	2,049	0	5	0	5,414	10,848	49,586	81,767	0	0	0	81,767

Table 4. Weight (lb.) of each species landed commercially from Gulf of Mexico grid area 21.0 during calendar year 1981. Data based on MPR.

Year	Finfish											Shellfish				Grand total				
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper	Snapper		Total	Blue crabs	Squid	Total
Jan.	0	17,324	612	0	283	0	0	1,894	0	0	0	0	0	2,480	3,801	26,394	0	0	0	26,394
Feb.	0	0	4,089	0	205	0	0	0	0	0	6,523	0	0	0	20,748	31,565	0	0	0	31,565
Mar.	0	0	0	0	148	0	0	0	0	0	9,034	0	0	1,072	15,799	26,053	0	0	0	26,053
Apr.	0	0	0	0	14	0	0	0	0	0	5,512	0	0	4,619	10,306	20,451	0	0	0	20,451
May	0	0	0	0	141	0	0	0	0	0	227	0	0	1,237	10,097	11,702	0	0	0	11,702
June	0	0	0	0	134	0	0	0	0	0	116	0	0	899	7,096	8,245	0	0	0	8,245
July	0	0	0	0	188	0	0	0	0	0	0	0	0	964	9,689	10,841	0	0	0	10,841
Aug.	0	0	0	0	457	0	0	0	0	0	0	0	0	429	4,529	5,448	0	0	0	5,448
Sept.	0	0	1,080	0	511	0	0	0	0	0	0	0	0	1,806	4,697	8,094	0	0	0	8,094
Oct.	0	0	439	0	770	1,071	0	0	0	0	2,460	0	0	219	1,309	6,268	0	0	0	6,268
Nov.	0	0	62	0	2,925	1,279	0	0	26	0	3,111	0	0	11	2,684	10,098	0	0	0	10,098
Dec.	0	0	1,690	0	2,814	0	0	0	0	0	6,376	0	0	458	4,078	15,578	0	0	0	15,578
1981	0	17,324	7,972	0	8,590	2,350	0	1,894	26	0	195	33,359	0	14,194	94,833	180,737	0	0	0	180,737

Table 5. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 17.0 during calendar year 1981. Data based on MPR.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
Jan.	0	0	0	0	1	0	0	0	10	15	0	0	43	0	0	0	0	0	0	70
Feb.	0	0	0	0	316	0	0	0	86	0	0	0	8	0	0	0	0	0	0	410
Mar.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr.	0	0	0	0	32	0	112	95	0	56	0	0	0	0	0	0	0	0	0	295
May	0	0	14	0	61	7	0	18	0	0	0	0	0	0	0	0	0	0	0	100
June	0	0	0	0	23	0	0	0	1	0	0	0	0	0	0	0	0	0	0	24
July	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Aug.	65	25	3	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Sept.	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov.	0	0	0	0	881	0	0	29	53	0	0	0	72	0	458	0	83	0	0	1,483
Dec.	0	0	0	0	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
1981	65	25	17	0	1,562	7	112	142	150	71	0	0	123	0	458	1	1,520	0	0	2,733

Table 6. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 18.0 during calendar year 1981. Data based on MPR.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
Jan.	0	0	21	0	625	0	0	13	47	263	0	0	0	78	687	3,580	0	0	0	5,314
Feb.	0	0	16	0	315	0	0	47	166	0	0	0	0	56	166	1,477	0	0	0	2,077
Mar.	0	0	581	0	683	0	0	500	3	304	0	20	42	281	281	1,746	0	0	0	4,160
Apr.	0	0	144	0	941	0	0	301	0	0	0	0	8	186	186	3,705	208	0	0	5,285
May	0	428	89	0	471	0	0	147	438	0	0	226	25	130	1,480	0	0	0	0	3,540
June	1,483	2,678	157	0	463	0	7	18	246	236	0	8	3	108	852	6,457	0	0	0	6,457
July	0	5,190	0	0	962	0	0	0	348	268	0	7	1,902	707	2,518	11,902	0	0	0	11,902
Aug.	0	374	0	0	130	0	1,871	0	0	0	0	0	149	7	496	3,330	0	0	0	3,330
Sept.	0	0	18	0	727	0	0	1	170	50	0	0	1,055	116	3,399	5,536	0	0	0	5,536
Oct.	0	0	15	0	2,748	0	98	259	616	131	0	0	517	86	1,870	6,340	0	0	0	6,340
Nov.	0	0	0	0	90	0	0	0	0	0	0	39	39	55	1,880	2,103	0	0	0	2,103
Dec.	0	0	3	0	3,395	0	0	39	330	0	0	0	24	8	4,913	8,765	0	0	0	8,765
1981	1,483	8,670	1,044	0	11,550	0	1,976	1,325	2,364	1,252	0	280	221	4,357	27,916	64,975	208	0	0	65,183

Table 7. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 19.0 during calendar year 1981. Data based on MMR.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	0	1,849	31,247	33,096	0	0	0	33,096
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	429	10,030	10,459	0	0	0	10,459
Mar.	46	128	0	0	10	0	0	0	0	7	0	0	0	1,551	6,125	7,867	0	0	0	7,867
Apr.	0	0	252	0	0	0	0	0	0	0	0	0	0	1,149	4,125	5,526	0	0	0	5,526
May	263	4,896	5	0	46	0	0	34	0	0	0	0	0	0	0	5,244	0	0	0	5,244
June	6,923	0	1	0	0	0	0	0	0	0	0	0	0	22	1,499	8,445	0	0	0	8,445
July	2,813	40	14	0	0	0	0	0	0	0	0	0	8	4,185	7,060	0	0	0	7,060	
Aug.	0	0	13	0	57	0	0	0	410	0	0	0	2,698	8,922	12,100	0	0	0	12,100	
Sept.	0	0	0	0	194	0	0	0	0	0	0	0	150	3,138	3,655	0	0	0	3,655	
Oct.	0	0	0	0	67	0	0	0	0	0	0	0	81	0	369	517	0	0	0	517
Nov.	0	0	0	0	65	0	0	0	0	0	0	0	0	0	4,151	4,216	0	0	0	4,216
Dec.	0	0	0	0	124	0	0	0	0	0	0	0	0	680	804	804	0	0	0	804
1981	10,045	5,064	285	0	563	0	0	34	410	0	7	0	2,929	5,181	74,471	98,989	0	0	0	98,989

Table 8. Ex-vessel value (\$) of each species landed commercially from Gulf of Mexico grid area 21.0 during calendar year 1981. Data based on MMR.

Year	Finfish											Shellfish			Grand total					
	Red drum	Spotted seatrout	Black drum	Sand seatrout	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Whiting	Mullet	Florida pompano	Unclassified Food Scrap	Cobia	Grouper		Snapper	Total	Blue crabs	Squid	Total
Jan.	0	24,254	184	0	173	0	0	189	0	0	0	0	0	761	4,460	30,021	0	0	0	30,021
Feb.	0	0	1,227	0	195	0	0	0	0	0	2,283	0	0	0	35,927	39,632	0	0	0	39,632
Mar.	0	0	0	0	89	0	0	0	0	0	1,807	0	0	275	26,262	28,433	0	0	0	28,433
Apr.	0	0	0	0	17	0	0	0	0	0	827	0	0	2,079	17,495	20,418	0	0	0	20,418
May	0	0	0	0	113	0	0	0	0	0	68	0	0	557	17,050	17,788	0	0	0	17,788
June	0	0	0	0	107	0	0	0	0	0	29	0	0	437	11,852	12,425	0	0	0	12,425
July	0	0	0	0	150	0	0	0	0	0	0	0	0	578	18,179	18,907	0	0	0	18,907
Aug.	0	0	0	0	366	0	0	0	0	0	0	0	0	257	8,376	9,055	0	0	0	9,055
Sept.	0	0	756	0	613	0	0	0	0	0	0	0	0	1,084	8,899	11,352	0	0	0	11,352
Oct.	0	0	220	0	647	214	0	0	0	0	492	0	0	164	2,420	4,157	0	0	0	4,157
Nov.	0	0	31	0	2,768	256	0	0	5	0	467	0	0	4	5,367	8,898	0	0	0	8,898
Dec.	0	0	789	0	1,673	0	0	0	0	0	956	0	0	275	8,199	12,167	0	0	0	12,167
1981	0	24,254	3,207	0	6,911	470	0	189	5	0	331	6,929	0	6,471	164,486	213,253	0	0	0	213,253

Appendix F. Total monthly commercial shrimp landings (lb) and ex-vessel value (\$) from the Gulf of Mexico during calendar year 1981.

Table 1. Weight (lb) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during calendar year 1981. Data based on MMPR.

Month	Brown and Pink	White	Other	Total
Jan.	599,153	156,730	91,172	847,055
Feb.	330,072	201,712	218	532,002
Mar.	207,029	327,186	0	534,215
Apr.	136,123	316,884	0	453,007
May	773,881	584,985	0	1,358,866
June	3,445,664	576,786	0	4,022,450
July	19,852,240	615,891	0	20,468,131
Aug.	21,573,587	347,794	0	21,921,381
Sept.	9,528,002	1,128,590	99	10,656,691
Oct.	6,470,730	2,881,196	60,297	9,412,223
Nov.	4,894,420	2,239,808	335,674	7,469,902
Dec.	3,526,855	686,893	588,267	4,802,015
1981	71,337,756	10,064,455	1,075,727	82,477,938

NOTES: 1) Gulf of Mexico shrimp landings at Texas ports as reported to TPWD by the Division of Statistics-Market News, Galveston and listed in Texas Landings may include harvest of shrimp from the waters of Florida and Louisiana as well as those of Texas. In their publication Gulf Coast Shrimp Data, NMFS reports shrimp harvests from "offshore grid areas"; however, the most recent publication of this bulletin occurred in 1977. Once this publication is brought up to date, the Texas Landings will be revised to reflect only those shrimp harvested in Gulf of Mexico off Texas; 2) Shrimp landings as furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary. Upon receipt of accurate landings from NMFS the Texas Landings will be revised to reflect the correct Texas shrimp landings.

Table 2. Ex-vessel value (\$) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during calendar year 1981. Data based on MMPR.

Month	Brown and Pink	White	Other	Total
Jan.	1,632,561	355,632	19,503	2,007,696
Feb.	964,776	435,190	39	1,400,005
Mar.	622,557	706,643	0	1,329,200
Apr.	376,411	866,587	0	1,242,998
May	1,670,284	1,859,583	0	3,529,876
June	4,876,159	1,875,690	0	6,751,849
July	28,799,060	1,996,145	0	30,795,205
Aug.	33,437,614	674,842	0	34,112,456
Sept.	19,759,279	2,311,500	24	22,070,803
Oct.	14,339,538	6,351,301	21,675	20,712,514
Nov.	12,960,564	5,578,452	84,751	18,623,767
Dec.	9,630,597	1,529,699	191,938	11,352,234
1981	129,069,400	24,541,264	317,930	153,928,594

NOTES: 1) Gulf of Mexico shrimp landings at Texas ports as reported to TPWD by the Division of Statistics-Market News, Galveston and listed in Texas Landings may include harvest of shrimp from the waters of Florida and Louisiana as well as those of Texas. In their publication Gulf Coast Shrimp Data, NMFS reports shrimp harvests from "offshore grid areas"; however, the most recent publication of this bulletin occurred in 1977. Once this publication is brought up to date, the Texas Landings will be revised to reflect only those shrimp harvested in Gulf of Mexico off Texas; 2) Shrimp landings as furnished to TPWD by NMFS, Division of Statistics-Market News, Galveston are preliminary. Upon receipt of accurate landings from NMFS the Texas Landings will be revised to reflect the correct Texas shrimp landings.

Appendix G. Number of commercial licenses sold in Texas in each fiscal year from 1956 through 1981.

Table 1. Number of commercial dealer licenses sold in Texas in each fiscal year from 1956 through 1981. (The sale of a license occurs when money is received in Austin).

Fiscal year	Retail Fish ^a			Retail fish truck	Retail oyster	Bait	Whole-sale fish	Whole-sale fish truck	Shrimp house operator	Bait shrimp	Menhaden fish plant
	Large	Medium	Small								
1956	2,675	1,444	3,888	75	0	3,936	157	96	0	0	0
1957	2,691	1,425	3,841	80	0	3,533	155	88	0	0	0
1958	2,792	1,376	3,639	84	0	4,391	1,450	76	0	0	0
1959	2,809	1,593	3,963	84	0	5,007	171	73	6	25	0
1960	3,163	1,491	3,775	86	0	4,043	175	81	18	582	0
1961	3,390	1,499	3,482	78	12	3,865	185	87	9	528	2
1962	3,388	1,549	3,564	63	0	3,421	187	72	10	502	5
1963	3,414	1,594	3,437	88	2	3,192	201	83	16	500	1
1964	3,485	1,650	3,688	76	0	3,260	205	69	29	476	3
1965	3,435	1,598	3,585	73	1	3,034	209	71	36	412	2
1966	3,467	1,617	3,559	65	0	2,968	234	78	28	417	1
1967	3,433	1,573	3,492	46	0	3,272	227	69	29	416	1
1968	3,455	1,619	3,477	57	1	3,030	241	74	37	432	1
1969	3,545	1,645	3,441	50	0	3,071	203	67	31	405	1
1970	3,574	1,599	3,481	53	0	3,169	211	62	33	408	1
1971	3,639	1,585	3,418	73	0	3,214	225	62	34	397	1
1972	3,761	1,518	3,382	97	0	3,146	219	52	33	439	1
1973	3,694	1,551	3,363	122	0	2,928	219	65	33	430	1
1974	3,721	1,481	2,794	167	0	2,471	251	54	27	417	0
1975	3,639	1,438	2,725	436	0	2,692	250	58	26	417	0
1976	3,513	1,449	2,717	490	0	3,000	241	54	27	423	0
1977	3,002	1,330	2,703	599	0	3,019	260	67	25	422	0
1978	2,919	1,301	2,718	789	0	2,994	260	77	27	420	0
1979	2,818	1,211	2,668	602	1	2,874	254	60	28	477	0
1980	2,524	1,174	2,494	541	1	2,856	265	44	30	477	0
1981	2,481	1,153	2,370	885	3	2,773	254	52	27	500	0

^aLarge=Dealer located in a city with > 40,000 population;
 Medium= Dealer located in a city with > 7,500 < 40,000 population;
 Small=Dealer located in a city with > 7,500 population.

Table 2. Number of commercial saltwater fishermen licenses sold in Texas in each fiscal year from 1956 through 1981. (The sale of a license occurs when money is received in Austin).

Fiscal year	Tidal water	Red drum	General				Finfish				
			Resident ^a	Non-resident ^b	Vessel (captain & crew)			Resident	Non-resident	Menhaden only	
					1	2	3 4				
1956			10,382								
1957			10,072								
1958			15,554								
1959			16,538								
1960			18,695								
1961			23,634								
1962			23,497								
1963			27,617								
1964			28,586								
1965			27,428								
1966			28,461								
1967			30,902								
1968			25,278								
1969			27,757								
1970			31,642								
1971			34,268								
1972			36,498								
1973			38,007								
1974			33,342								
1975			27,289								
1976			26,651								
1977			27,134								
1978		541	28,653								
1979	30,644	605	5,182								
1980	2,127	636	19,945		2,291				1,987	46	558
1981	52	635	14,309		3,491				1,680	444	80

^aUntil 1979 there were no divisions in the General Commercial Fishing Licenses.

^bTotal sales regardless of fee per license which depends on state of residency of purchaser.

Table 3. Number of commercial saltwater fishing gear licenses sold in Texas in each fiscal year from 1956 through 1981. (The sale of a license occurs when money is received in Austin).

Fiscal year	Saltwater trotline tags	Seine tags	Commercial oyster dredge	Mussel dredge permit (power)
1956		10,832	150	0
1957		10,107	129	0
1958		9,414	30	0
1959		10,467	230	0
1960		11,089	258	0
1961		12,869	374	0
1962		11,269	249	0
1963		12,207	408	1
1964		13,209	153	1
1965		12,784	198	1
1966		13,183	210	0
1967		13,959	153	3
1968		13,704	106	10
1969		13,753	97	2
1970	11,360	14,084	115	0
1971	14,229	14,996	126	0
1972	16,204	13,893	195	0
1973	18,390	15,312	126	0
1974	22,623	17,282	99	0
1975	17,554	16,721	40	0
1976	17,904	17,306	16	0
1977	18,500	15,983	72	0
1978	14,716	14,810	59	0
1979	16,212	17,270	58	2
1980	16,868	13,958	52	8
1981	18,061	9,707	109	1

Table 4. Number of commercial saltwater boat and vessel licenses sold in Texas in each fiscal year from 1956 through 1981. (The sale of a license occurs when money is received in Austin).

Fiscal year	Fishing boat	Fishing Boat (menhaden only)	Gulf shrimp	Bay shrimp	Bait shrimp boat	Duplicate commercial shrimp boat plates
1956	1,392	39	0	0	0	0
1957	1,535	36	0	0	0	0
1958	2,466	36	0	0	0	0
1959	2,657	47	125	0	0	0
1960	2,280	21	1,755	0	1,846	0
1961	1,616	24	1,947	0	2,506	0
1962	1,396	24	1,655	0	2,456	0
1963	1,314	13	1,636	24	3,328	0
1964	1,380	17	1,958	1,849	0	0
1965	1,236	26	1,958	2,217	0	0
1966	1,147	22	1,947	1,969	0	0
1967	1,029	27	2,140	1,760	1,752	0
1968	997	39	2,437	1,953	632	0
1969	978	37	2,624	2,457	768	0
1970	1,066	36	2,871	3,218	881	0
1971	1,086	31	2,900	3,743	966	0
1972	1,330	42	3,341	3,995	1,265	0
1973	1,336	54	3,368	3,974	1,365	0
1974	1,482	45	3,239	3,747	1,590	0
1975	1,277	52	2,764	3,523	1,368	0
1976	1,366	51	2,573	2,917	1,406	0
1977	1,601	36	2,881	3,232	1,449	0
1978	1,386	48	3,173	3,768	1,521	0
1979	1,726	43	3,364	4,444	1,752	53
1980	1,530	33	3,308	4,473	2,016	46
1981	1,268	34	3,718	5,215	2,217	58

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