

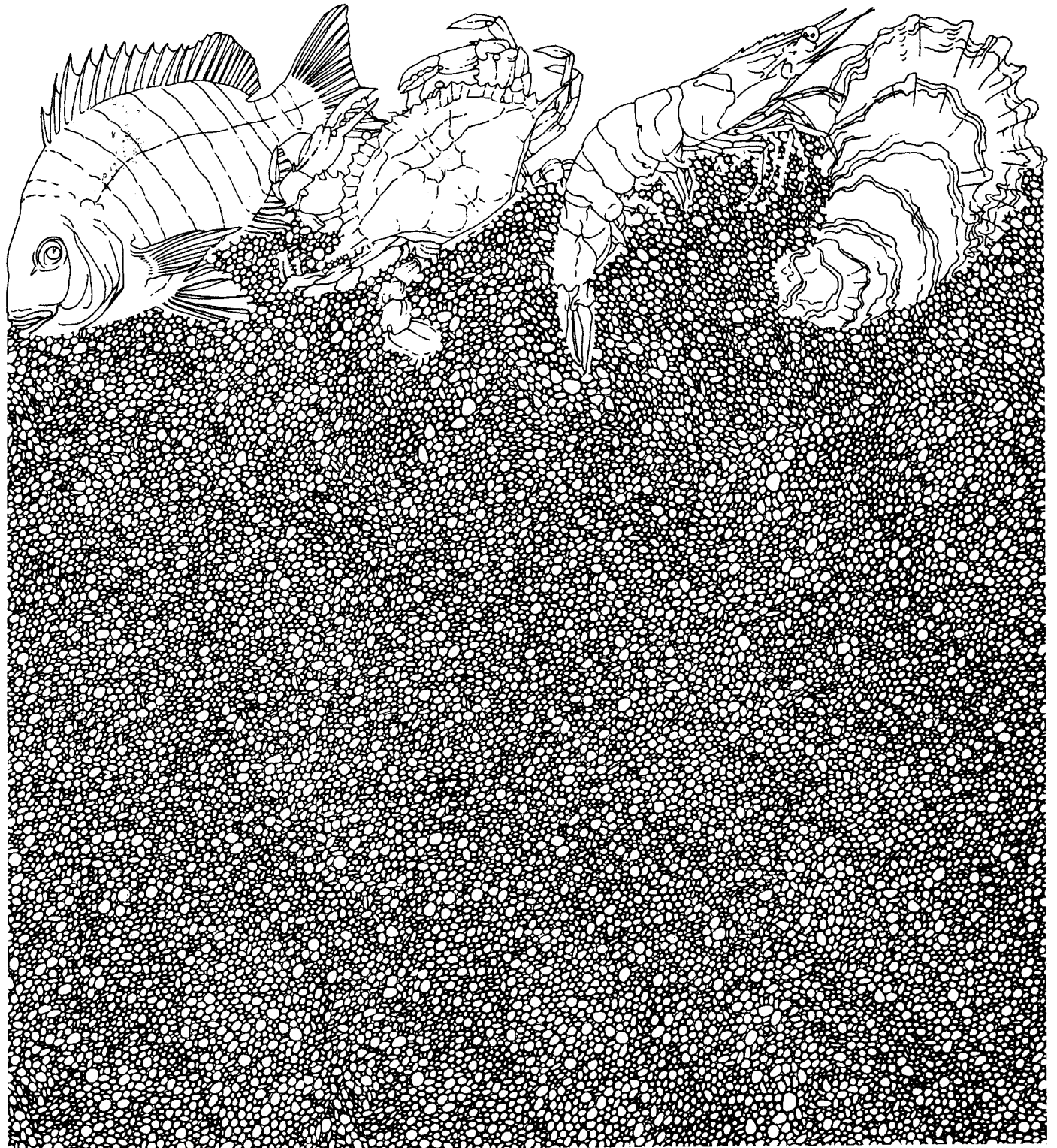
PAUL HAMMERSCHMIDT

Trends In Texas Commercial Fishery Landings, 1977-1987

by William D. Quast, Thomas S. Searcy and Hal R. Osburn

Management Data Series Number 149
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Texas Parks and Wildlife Department
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ABSTRACT

The Texas Parks and Wildlife Department in cooperation with the National Marine Fisheries Service collects data on commercially landed finfish and shellfish from Texas bays and from the Gulf of Mexico off Texas.

Shrimp continue to be the most important commercial seafood product landed in Texas. They represented an average 84%, by weight, of all seafood landed from 1977 through 1987 and more than 94% of the total ex-vessel value. During this period blue crabs, Eastern oyster and finfish comprised 9%, 4% and 4% of total landings respectively. Since 1977, the mean unit price (price per pound) paid to commercial fishermen for all shrimp has increased by 70%, while finfish prices increased 42%, Eastern oysters increased 48%, and blue crabs increased 57%.

Shrimp represented an average 84%, by weight, of all seafood landed in calendar year 1987 and 92% of the total 1987 ex-vessel value. During 1987 blue crabs, Eastern oysters and finfish comprised 11%, 3%, and 3% total landings respectively, and 2%, 3% and 2% of the total ex-vessel value respectively. Compared to 1986 prices, the average 1987 unit price for shrimp and finfish decreased 15% and 3% respectively, while the price for blue crabs and Eastern oysters increased 11% and 12% respectively.

The total reported landings and ex-vessel value for 1987 were 4% and 18% less than the record values of 1986. Total coastwide landings were more than 111 million pounds and ex-vessel value was over \$201 million.

INTRODUCTION

Gulland (1977) emphasized the importance to the fishery manager of knowing the landings of a marine resource. Landings data from both recreational and commercial fishermen are required to assess the needs for and the impacts of saltwater fishing regulations. Economic and sociologic information can also be inferred from landings data to allow for management based on the concept of optimum sustainable yield (Radovich 1975). Annual recreational fish landings in Texas have been estimated since 1974 based on on-site interviews at fishing access sites (Osburn and Ferguson 1987).

Commercial landings of marine species from Texas bays and the Gulf of Mexico (Gulf) off Texas (Fig. 1) have been collected from seafood dealers since 1887 (Perret et al. 1980). These early data were collected sporadically until 1936 when annual surveys were initiated (Game, Fish and Oyster Commission 1937). Since 1936, the Texas Parks and Wildlife Department (TPWD) has monitored the landings and value of the marine fishes, oysters, crabs and shrimp through a mandatory self-reporting system known as the Monthly Marine Products Report (MMPR, Fig. 2) which is completed by seafood dealers. Since 1956, the National Marine Fisheries Service (NMFS) has collected landings data on shrimp through dealer reports and shrimp vessel crew interviews (Prytherch 1980) while TPWD continued to collect data on fishes, crabs and oysters. An informal data exchange between agencies permitted the compilation of total self-reported landings of marine species. Beginning 1 April 1985, TPWD and NMFS instituted a formal cooperative agreement to collect and exchange commercial fisheries statistics (Fig. 3).

From 1977-1981, additional landings information, including daily landings by species, was required of commercial finfish fishermen through the use of Individual Sales Transaction (IST) forms (Fig. 4). The use of the IST form was discontinued in March 1982 by the Texas Parks and Wildlife Commission because the data were inaccurate and the reporting system was largely duplicative (Green and Thompson 1981).

This report presents the landings and ex-vessel value of self-reported transactions from seafood dealers to TPWD, and landings and ex-vessel value data collected by NMFS, from 1977 through 1987.

MATERIALS AND METHODS

Licensed seafood dealers were required to complete an MMPR each month, listing the total weight and price paid for each species purchased from commercial fishermen (Table 1). An MMPR from each dealer, detailing the preceding months transactions, was received at a TPWD office on or before the 10th day of each month. The Division of Statistics-Market News, NMFS, collected shrimp and menhaden landings and value data. Shrimp landings reported on MMPRs were provided to NMFS and landings of shrimp, finfish and other seafood products gathered by NMFS were provided to TPWD. Finfish landings collected by NMFS but not purchased or handled by licensed seafood dealers are not included in this report. Commercial fisherman fishing in 1987 were subject to the fishing regulations listed in Table 2.

All MMPRs were checked for completeness by TPWD personnel. Suspected errors were corrected after contacting the submitting dealer to check the questionable information and verify any necessary corrections. All seafood products, except Eastern oysters (Crassostrea virginica), which were not reported in live weight by dealers were converted to live weight (round weight) using conversion factors listed in Appendix A. Eastern oyster landings were converted to meat weight (Appendix A, Table A.3).

Landings of Eastern oysters from leases were reported by leaseholders through MMPRs, monthly landings forms submitted to the Seabrook office of TPWD (Fig. 5) and annual summary forms (Fig. 6) submitted to the Austin Headquarters of TPWD. In the case of discrepancies between monthly and annual summaries, the highest values for landings were used. Eastern oyster landings presented in this report, except for those listed in Appendix G, represent MMPR data only and are comprised of landings from both private leases and public reefs. Eastern oyster landings in Appendix G are from private leases only.

Gulf shrimp landed at Texas ports and reported to TPWD by the Division of Statistics-Market News, NMFS, may include shrimp harvested from the waters of other states or from areas outside the territorial waters of the U.S. in addition to those from Texas waters. NMFS reports shrimp landings from statistical grid zones along the entire U.S. Gulf coast, including Texas, in their publication Gulf Coast Shrimp Data. Gulf shrimp landings in this report are pooled for all grid zones off Texas. Monthly shrimp landings for 1986 and 1987, as reported to TPWD by NMFS, are preliminary data and may be revised.

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. Except where noted, data are reported by calendar year.

RESULTS

During the 11-year period of 1977-87 more than 1.1 billion pounds of seafood products valued at more than \$1.9 billion were reported harvested from Texas bays and the Gulf of Mexico, and landed in Texas (Tables 3-16). Shrimp, as a group, represented approximately 84% of the landings by weight and 94% of the total ex-vessel value. Blue crabs (Callinectes sapidus), primarily from bay waters, represented 9% of the landings and 2% of the ex-vessel value. Eastern oysters, harvested only from bays, represented 4% of the landings and 3% of the ex-vessel value. Finfish collectively represented 4% of the landings and 2% of the ex-vessel value (Fig. 7.A). Gulf landings constituted 68% of total landings and 85% of the total ex-vessel value, indicating that Gulf landings were 2.6 times more valuable per pound than bay landings (Fig. 7.A). Total coastwide annual landings fluctuated around 100 million pounds during this period, ranging from 81 to 116 million, while total ex-vessel values ranged from \$133 to \$246 million (Fig. 7.B).

During this period, total coastwide bay landings ranged from 24 to 40 million pounds per year and ex-vessel values ranged from \$17 to \$41 million annually. The largest annual landings and greatest ex-vessel values were reported for the Galveston Bay system which accounted for 31% of the total bay landings and 37% of the total bay ex-vessel value. The East Matagorda Bay and Sabine Lake systems each accounted for approximately 1% of the landings and less than 1% of the value. (Fig. 8.A and Appendix B).

The most productive offshore Gulf area with respect to products landed (excluding shrimp) during the 11-year period was grid zone 18.0, offshore from the Galveston Bay system. Approximately 36% of total coastwide Gulf landings was harvested from grid zone 18.0 but it accounted for only 32% of the total ex-vessel value. Grid zone 21.0, offshore from the lower Laguna Madre system, accounted for 26% of the Gulf landings and 28% of the total coastwide ex-vessel value. The least productive Gulf area with respect to landings, grid zone 17.0 offshore from the Sabine Lake system, accounted for 6% of the landings and less than 6% of the ex-vessel value (Fig. 8.B and Appendix C).

Annual mean coastwide bay and Gulf landings of brown shrimp (Penaeus aztecus) and pink shrimp (P. duorarum) from 1977-87, constituted 74%, by weight, of all shrimp landed and represented 75% of the total coastwide ex-vessel value. White shrimp (P. setiferus) accounted for 25% of the landings and 24% of the ex-vessel value. All other shrimp accounted for 1% of the landings and less than 1% of the ex-vessel value (Fig. 9.A). Brown and pink shrimp landings have generally remained stable during this 11-year period while white shrimp landings have generally increased. The ex-vessel values of all shrimp species have generally increased since 1977 (Fig. 9.B-D).

The coastwide annual landings for all shrimp combined ranged from 68 to 97 million pounds while ex-vessel values ranged from \$126 to \$229 million (Fig. 10.A). Annual blue crab landings ranged from 7.2 to 11.7 million pounds while ex-vessel values ranged from \$1.9 to \$4.5 million (Fig. 10.B). Eastern oyster landings and ex-vessel values increased sharply after 1981 and peaked in 1983 at 8 million pounds and \$11 million respectively. Eastern oyster landings were over 5 million pounds from 1984-86 but fell to 2.8 million in 1987 (Fig. 10.C). The landings and ex-vessel values of all other shellfish increased steadily after 1983, principally due to increased landings of stone crabs (Menippe mercinaria) (Table 9,10,15,16; Fig. 10.D). Total shellfish landings reflect primarily shrimp landings and have fluctuated around 95 million pounds annually ranging from 77 to 113 million. Annual ex-vessel values for all shellfish increased every year, except 1980, 1985 and 1987, with the greatest relative increase occurring in 1986 (Fig. 11).

From 1977 to 1981 red drum (Sciaenops ocellatus), spotted seatrout (Cynoscion nebulosus) and black drum (Pogonias cromis) constituted 71-73% of the weight and 70-80% of the value of all finfish landings (Tables 3-8, 13 and 14). The 67th Legislature prohibited the sale of red drum and spotted seatrout effective 1 September 1981. The landings of black drum, flounder (Paralichthys sp.), sheepshead (Archosargus probatocephalus and snapper (Lutjanidae) increased following the prohibition of red drum and

spotted seatrout sales in 1981. By 1986 black drum and sheepshead landings had dropped to their lowest levels since 1977, while flounder and snapper landings were at their highest levels (Fig. 12.A-D). In 1987 flounder and snapper landings decreased, sheepshead landings were unchanged and black drum landings increased sharply. During 1987 black drum, flounder and snapper landings comprised 62% of all finfish landings and 68% of the total ex-vessel value for finfish. The annual landings and ex-vessel values of other finfish and total finfish between 1977 and 1981 (Tables 7,8,13,14; Fig. 13.A), include red drum and spotted seatrout. The annual landings of other finfish, excluding red drum and spotted seatrout, fluctuated around 460,000 pounds from 1977 to 1985 when landings increased sharply to more than 1.2 million pounds, reflecting primarily an increase in landings of Gulf species. From 1977 to 1987 total finfish landings, excluding red drum and spotted seatrout, ranged from 1.5 to 3.3 million pounds annually with mean landings of 2.8 million pounds annually (Fig. 13.B).

Since 1977 the mean price per pound paid to commercial fishermen for shrimp has ranged from \$1.37-\$2.48 with an overall mean of \$2.00. Finfish prices ranged from \$0.44-\$1.09 averaging \$0.76, Eastern oyster prices ranged from \$1.16-\$2.38 averaging \$1.55 and blue crabs ranged from \$0.26-\$0.42 averaging \$0.31. In 1987 snapper had the highest ex-vessel unit price (\$1.87/lb) of the major finfish species landed while Eastern oyster had the highest unit price of the major shellfish species (\$2.38/lb)(Tables 17 and 18).

Monthly summaries of landings and ex-vessel values for Texas bay systems and for grid zones of the Gulf during 1987 are presented in Appendices D and E, respectively. Weight and value varied among bay systems and grid zones by month and species. Nearly 66% of the weight and 57% of the ex-vessel value of brown and pink shrimp from the Gulf in 1987 was landed during June-September. Nearly 60% of the weight and 53% of the value of white shrimp from the Gulf in 1987 was landed during August-November.

Annual weight and value of menhaden (Brevoortia sp.) caught off Texas but landed commercially in Louisiana during 1977-1987 are presented in Appendix F. Weight and ex-vessel value have annually averaged 99,307,000 pounds and \$4,203,000, respectively.

The volume of Eastern oysters transplanted annually to private oyster leases in Texas bays, the quantities of oysters harvested annually from leases and their ex-vessel values from 1977 to 1987 are presented in Appendix G. Lease numbers and acreage have generally increased since 1977, but weight and ex-vessel value of landings have fluctuated widely among years. During 1987 1,174,740 pounds of meat valued at \$2,808,000 was landed in Texas from oyster leases.

The number of commercial licenses sold in Texas in each fiscal year (September-August) from 1956 to 1987 are presented in Appendix H. Retail fish dealer licenses sold in 1987 (4,005) decreased 37% from 1986; wholesale fish dealer licenses (374) decreased 20%.

DISCUSSION

Commercial fishing continues to be an important industry in Texas. Approximately 98 million pounds of seafood with an average ex-vessel value of \$175 million are reported landed annually. Using an approximate expansion factor of three (Grubb 1973), the total economic impact of this industry at the wholesale level in Texas approximates one-half billion dollars annually. This does not include over 99,000,000 pounds of menhaden worth over \$4,000,000 (ex-vessel) that are annually caught off Texas but landed in Louisiana.

Brown shrimp is the single most valuable species in the commercial fishery. Although landings of brown shrimp are not reported separately 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 value of the bay fishery relies primarily on white shrimp followed by brown and pink shrimp, Eastern oyster, blue crab and finfish in order of decreasing value.

Although commercial landings data have been used to determine the relative abundance of the resource, several assumptions must be made. In particular, the amount of inaccurate or incomplete reporting is typically unknown and must be considered constant when making temporal or spatial comparisons. Different reporting requirements can affect the amount of non-reporting and, thus, an estimate of relative abundance based on reported landings (Green and Thompson 1981). The problem of non-reporting by seafood dealers is seldom considered by fisheries managers when using commercial landings data as the basis for management decisions (Cushing 1970).

Deficiencies in reporting requirements and subsequent enforcement also affect the utility of commercial landings data. The 69th Legislature enacted legislation, effective 1 September 1985, which increased the maximum penalty to \$200 and possible license forfeiture for failing to file a required report (Anonymous 1985). Present Texas law, however, does not require all commercial landings to be reported. Unlicensed consumers who purchase seafood products directly from commercial fishermen without the intent to resell the products are exempt from reporting. Another deficiency in the present reporting system is that the MMPRs do not provide estimates of commercial fishing effort by gear type for each species landed. These deficiencies may limit the use of these commercial data for fisheries management purposes.

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Table 1. List of common and scientific names of species caught or landed in Texas.

Common name	Scientific name ^a	Common name	Scientific name ^a
FINFISH		Red drum	<u>Sciaenops ocellatus</u>
Atlantic croaker	<u>Micropogonias undulatus</u>	Sand seatrout	<u>Cynoscion arenarius</u>
Atlantic cutlassfish	<u>Trichirurus lepturus</u>	Silver seatrout	<u>Cynoscion nothus</u>
Atlantic moonfish	<u>Selene setapinnis</u>	Shark	
Atlantic spadefish	<u>Chaetodipterus faber</u>	Atlantic sharpnose	<u>Rhizoprionodon terraenovae</u>
Black drum	<u>Pogonias cromis</u>	Blacktip	<u>Carcharhinus limbatus</u>
Bluefish	<u>Pomatomus saltatrix</u>	Bull	<u>Carcharhinus leucas</u>
Cobia	<u>Rachycentron canadum</u>	Great hammerhead	<u>Sphyrna mokarran</u>
Codfish	Family Gadidae	Shortfin mako	<u>Isurus paucus</u>
Cusk Eel	Family Ophidiidae	Sheepshead	<u>Archosargus probatocephalus</u>
Dolphin	<u>Coryphaena hippurus</u>	Snapper	
Flounder		Lane snapper	<u>Lutjanus synagris</u>
Gulf flounder	<u>Paralichthys albigutta</u>	Red snapper	<u>Lutjanus campechanus</u>
Southern flounder	<u>Paralichthys lethostigma</u>	Vermillion snapper	<u>Rhomboplites aurorubens</u>
Florida pompano	<u>Trachinotus carolinus</u>	Spotted seatrout	<u>Cynoscion nebulosus</u>
Gafftopsail catfish	<u>Bagre marinus</u>	Stringray	Family Dasyatidae
Greater amberjack	<u>Seriola dumerila</u>	Swordfish	<u>Xiphias gladius</u>
Grouper		Tilefish	<u>Lopholatilus chamaeleonticeps</u>
Black grouper	<u>Mycteroperca bonaci</u>	Triggerfish, gray	<u>Balistes capricus</u>
Jewfish	<u>Epinephelus itajara</u>	Tuna	
Nassau grouper	<u>Epinephelus striatus</u>	Blackfin tuna	<u>Thunnus atlanticus</u>
Scamp	<u>Mycteroperca phenax</u>	Bluefin tuna	<u>Thunnus thynnus</u>
Warsaw grouper	<u>Epinephelus nigritus</u>	Yellowfin tuna	<u>Thunnus albacares</u>
Yellowedge grouper	<u>Epinephelus flavolimbatus</u>	Wahoo	<u>Acanthocybium solanderi</u>
Yellowfin grouper	<u>Mycteroperca venenosa</u>	SHELLFISH	
Yellowmouth grouper	<u>Mycteroperca interstitialis</u>	Atlantic bay scallop	<u>Argopecten irradians</u>
Gulf butterfish	<u>Peprilus burti</u>	Crab	
Kingfish		Blue crab	<u>Callinectes sapidus</u>
Gulf kingfish	<u>Menticirrhus littoralis</u>	Stone Crab	<u>Menippe mercenaria</u>
Southern kingfish	<u>Menticirrhus americanus</u>	Eastern oyster	<u>Crassostrea virginica</u>
Mackerel		Lobster	
King mackerel	<u>Scomberomorus cavalla</u>	Shovelnose	Family Scyllaridae
Spanish mackerel	<u>Scomberomorus maculatus</u>	Spiny	<u>Panulirus argus</u>
Menhaden	<u>Brevoortia sp.</u>	Mantis Shrimp	<u>Squilla empurusa</u>
Mullet			
Striped mullet	<u>Mugil cephalus</u>		
White mullet	<u>Mugil curema</u>		

Table 1. (Cont'd).

Common name	Scientific name ^a
Shrimp	
Brown shrimp	<u>Penaeus aztecus</u>
White shrimp	<u>Penaeus setiferus</u>
Pink shrimp	<u>Penaeus duorarum</u>
Other shrimp	
Rock shrimp	<u>Sicyonia brevirostris</u>
Royal red shrimp	<u>Hymenopenaeus robustus</u>
Seabob	<u>Xiphopenaeus kroyeri</u>
Squid	
Brief squid	<u>Lolliguncula brevis</u>
Long-finned squid	<u>Loligo pealei</u>

^a Scientific names provided by Robins et al. (1980), Christmas and Etzold (1977), Hofstetter (1977) Leary (1967) and Rathjen (1973).

Table 2. Summary of commercial fishing regulations in Texas marine waters during 1987.

Organism	Method	Location	Product	Open Season	Time ^a	Exceptions
Shrimp	Trawl	Bait and major bays	Bait ^b	All year	24 h	Night ^c trawling prohibited from 15 Aug until 15 Dec, inclusively, except in Laguna Madre.
	Trawl	Major bays	All ^b	15 May-15 Jul 15 Aug-15 Dec	Day ^d	None
	Trawl	Gulf (0-7 fathoms)	All ^b	All year	Day ^d	Trawling prohibited from 4-7 fathoms 1 Jun to 15 Jul, inclusively. Trawling for white shrimp allowed during day ^d in 0-4 fathoms.
	Trawl	Gulf (>7 fathoms)	All ^b	All year	24 h	Trawling prohibited beyond 7 fathoms from 1 Jun to 15 Jul, inclusively.
Crabs	Trap, trawl, net, hook and line	Bays ^e , Gulf ^f	All	All year	24 h	None
Oysters	Dredge	Bays ^e	Market	1 Nov-30 Apr	Day ^d	Seasons may be modified by Texas Dept. of Health and/or Texas Parks and Wildlife.
Finfish	Traps (perch)	Bays ^e , Gulf ^f	Bait	All year	24 h	None
	(snapper)	Gulf ^f	Snapper	All year	24 h	Prohibited within 1 mile of any shoreline.
	Trotline	Bays ^e , Gulf ^f	All ^b	By county	24 h	Legal in all counties with restrictions ^g and, Harris ^h ; Chambers ⁱ .
	Nets (Strike)	Bays ^e	All ^b	By county	24 h	Legal in following counties with restrictions ^g : Chambers, Galveston ⁱ , Harris ^h , Matagorda, Nueces ^j .
	(gill)	Bays ^e	All ^b	By county	24 h	
(trammel)	Bays ^e	All ^b	By county	24 h		
(seine)	Bays ^e , Gulf ^f	All ^b	By county	24 h		
(purse)	Gulf ^f	Menhaden	i		24 h	Legal in gulf waters of all coastal counties, but prohibited within 1/2 mile of any shoreline or within 1 mile of any pass.
Trawls	Gulf ^f	All ^b	By county	By county	24 h	Trawling legal in gulf waters of Aransas, Brazoria, Jefferson, Matagorda and Willacy counties.

Restrictions and Definitions:
^aGear fishing time.
^bReddium and spotted seatrout excluded.
^cNight is defined as the time between 30 min. after sunset and 30 min. before sunrise.
^dDay is defined as the time between 30 min. before sunrise and 30 min. after sunset.
^ePermitted in designated portions of bays.
^fPermitted in gulf waters with restrictions.

^gAll gear must be removed from the water between 1 pm Friday and 1 pm Sunday.
^hNetting prohibited from Saturday of Memorial Day weekend until sunset on Labor Day.
ⁱNetting prohibited from 15 May through 15 Aug.
^jNetting prohibited in May, Jun, Jul and Aug.
^kNetting permitted from third Monday of Apr until Friday after second Tuesday of Oct.

Table 3. Texas commercial finfish and shellfish landings (lb x 1000) during 1977-1987. Data based on MMPR.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheepshead	Snapper	Other	Total	Shrimp			Blue crab	Eastern oyster	Other	Total			
							Brown and pink	White	Other							
1977	1,453.5	310.9	293.9	440.0	2,795.8	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	1,785.5	237.1	327.9	388.3	2,447.7	5,186.5	62,329.7	21,464.7	332.3	84,126.7	7,469.6	1,907.0	15.5	93,518.8	98,705.3	
1979	1,531.4	232.5	406.1	214.7	2,163.8	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	1,058.4	194.9	473.5	231.6	2,392.4	4,350.8	58,332.0	14,235.3	1,330.2	73,897.5	8,953.0	1,738.5	0	84,589.0	88,939.8	
1981	663.8	130.5	202.8	165.9	1,513.5	2,676.5	78,494.0	16,160.5	1,075.7	95,730.2	6,952.0	1,309.4	0	103,991.6	106,668.1	
1982	1,249.0	535.9	322.4	369.6	524.0	3,000.9	51,386.4	18,288.1	1,211.1	70,885.6	8,009.9	3,633.1	13.4	82,542.0	85,542.9	
1983	1,492.8	474.3	275.9	261.9	425.6	2,930.5	50,707.3	20,369.5	916.9	71,993.7	8,829.1	7,940.8	7.8	88,771.4	91,701.9	
1984	900.2	380.1	179.2	452.2	367.1	2,278.8	62,051.7	27,952.1	232.5	90,236.3	7,228.6	5,167.7	46.0	102,678.6	104,957.4	
1985	643.9	443.5	183.2	663.5	1,258.8	3,192.9	57,432.1	24,202.3	606.1	82,240.5	9,722.0	5,133.9	171.7	97,268.1	100,461.0	
1986	588.0	560.3	131.2	916.1	1,102.6	3,298.2	67,782.6	27,748.2	1,743.2	97,274.0	9,481.9	5,649.3	199.5	112,604.7	115,902.9	
1987	858.2	549.0	132.9	701.2	1,147.5	3,388.8	68,726.4	19,652.9	5,123.6	93,502.9	11,687.7	2,843.6	122.7	108,156.9	111,545.7	

Table 4. Texas commercial finfish and shellfish ex-vessel value (\$ x 1000) during 1977-1987. Data based on MMPR.

Year	Finfish										Shellfish					Grand Total
	Black drum	Flounder	Sheepshead	Snapper	Other	Total	Shrimp			Blue crab	Eastern oyster	Other	Total			
							Brown and pink	White	Other							
1977	399.8	170.8	28.8	420.9	1,324.5	2,344.8	100,815.9	24,627.2	235.2	125,678.3	1,946.7	2,991.7	4.2	130,620.9	132,965.7	
1978	607.5	173.2	39.2	403.5	1,447.7	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	602.3	190.1	55.8	261.6	1,518.6	2,628.4	117,273.3	34,687.5	381.0	152,341.8	2,146.1	1,048.7	0.2	155,536.8	158,165.2	
1980	539.8	153.7	66.5	351.3	2,044.5	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	378.1	138.3	42.0	267.8	1,487.4	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	
1982	782.5	521.4	79.7	669.2	136.8	2,189.6	131,658.5	43,724.9	504.4	175,887.8	2,375.1	5,313.7	5.0	183,581.6	185,771.2	
1983	971.0	445.6	66.0	383.5	118.5	1,984.6	125,430.4	45,682.8	330.6	171,443.8	3,250.3	11,336.7	3.2	186,034.0	188,018.6	
1984	449.3	351.0	36.8	818.3	119.5	1,774.9	125,724.7	53,607.1	198.5	179,530.3	2,252.5	8,308.7	22.9	190,114.4	191,889.4	
1985	427.3	445.3	41.1	1,242.4	555.9	2,712.0	113,421.2	47,796.6	164.9	161,382.7	3,309.7	8,754.9	127.7	173,575.0	176,287.0	
1986	411.2	540.3	35.6	1,708.4	901.4	3,596.9	167,301.9	60,882.5	925.6	229,110.0	3,170.5	10,486.8	106.8	242,874.1	246,471.0	
1987	597.8	536.6	37.8	1,313.5	1,122.3	3,608.0	144,691.4	37,611.8	3,647.3	185,950.5	4,473.7	6,799.4	57.6	197,281.2	200,889.2	

Table 5. Weight (lb x 1000) of each species landed commercially from Texas bay systems during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish						Grand Total										
	Atlantic croaker					Gafftopsail catfish					Sheepshead		Mullet		Other			Unclassified Food Scrap		Total		Shrimp		Blue crab		Eastern oyster	
	Flounder	Black drum	Atlantic croaker	Gafftopsail catfish	Sheepshead	Mullet	Other	Unclassified Food Scrap	Total	Brown and pink	White	Other	Total	Blue crab	Eastern oyster	Other		Total	Shrimp	Other	Total	Blue crab	Eastern oyster	Other	Total		
1977	210.4	30.0	60.8	7.8	2,148.3	44.1	140.5	4,292.7	4,711.1	9,391.4	1.6	14,104.1	8,237.4	2,600.5	5.3	24,947.3	29,240.0										
1978	192.7	19.8	50.4	8.1	1,983.9	80.0	51.6	4,455.8	5,089.4	8,293.2	0	13,382.6	7,467.8	1,907.0	4.3	22,761.7	27,217.5										
1979	206.8	16.4	39.0	82.5	1,595.9	81.9	44.8	3,955.5	7,194.3	8,027.7	0	15,222.0	8,311.0	888.8	0.3	24,422.1	28,377.6										
1980	149.8	13.6	45.3	87.3	2,044.9	31.0	44.8	3,930.3	8,031.4	6,813.2	4.7	14,849.3	8,949.3	1,738.5	0	25,537.1	29,467.4										
1981	101.8	2.2	6.9	193.7	85.2	1,240.8	19.3	9.7	2,309.1	7,156.3	6,096.0	0	13,252.3	6,945.6	1,389.4	0	21,587.3	23,896.4									
1982	439.4	60.4	15.7	303.6	137.7	51.5	23.2	45.1	2,301.1	6,837.4	7,435.9	0.5	14,273.8	8,007.2	3,633.1	10.1	25,924.2	28,225.3									
1983	399.4	19.5	37.5	272.2	100.1	15.0	42.1	71.5	2,438.1	10,050.2	8,033.3	0	18,083.5	8,794.0	7,940.7	2.6	34,820.8	37,258.9									
1984	301.1	1.8	22.1	168.1	74.0	8.5	19.0	54.4	1,518.3	11,719.0	10,509.6	0.2	22,228.8	7,201.2	5,167.7	25.0	34,622.7	36,141.1									
1985	369.6	35.8	27.2	157.0	253.5	13.3	48.3	250.9	1,787.6	9,178.0	7,101.5	3.0	16,282.5	9,691.0	5,133.9	153.5	31,261.0	33,048.4									
1986	493.3	36.6	17.5	112.7	112.2	22.9	32.5	103.2	1,503.2	9,556.0	10,894.0	1.4	20,451.4	9,399.1	5,649.3	184.6	35,684.4	37,187.6									
1987	479.5	41.7	7.6	100.6	223.3	13.7	15.0	63.1	1,706.2	13,658.6	10,027.8	5.5	23,691.9	11,650.4	2,843.6	106.3	38,292.2	39,998.4									

Table 6. Ex-vessel (\$ x 1000) of each species landed commercially from Texas bay systems during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish						Grand Total										
	Atlantic croaker					Gafftopsail catfish					Sheepshead		Mullet		Other			Unclassified Food Scrap		Total		Shrimp		Blue crab		Eastern oyster	
	Flounder	Black drum	Atlantic croaker	Gafftopsail catfish	Sheepshead	Mullet	Other	Unclassified Food Scrap	Total	Brown and pink	White	Other	Total	Blue crab	Eastern oyster	Other		Total	Shrimp	Other	Total	Blue crab	Eastern oyster	Other	Total		
1977	121.7	387.8	3.3	9.7	23.3	1.6	1,149.1	8.5	18.9	1,724.0	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	149.1	600.7	2.2	12.2	37.6	0.9	1,333.5	15.5	6.0	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	173.6	593.5	2.7	8.6	52.0	7.7	1,345.4	14.4	4.0	2,201.9	6,095.0	11,111.8	0	17,206.8	2,146.5	1,048.7	0.1	20,401.6	22,603.5								
1980	122.6	536.7	1.8	10.3	65.1	6.3	1,930.7	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	117.7	373.6	0.5	1.6	40.3	5.8	1,387.2	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								
1982	439.0	773.5	10.6	4.2	74.7	14.5	12.2	7.5	5.0	1,341.2	5,621.2	12,924.0	0.2	18,545.4	2,374.3	5,313.7	4.0	26,237.4	27,578.6								
1983	394.4	965.4	4.2	7.8	65.1	11.1	5.1	16.6	10.8	1,480.5	12,022.0	12,608.8	0	24,630.8	3,239.6	11,336.7	1.3	39,208.3	40,688.8								
1984	295.4	440.0	0.5	5.3	34.3	8.3	4.1	6.2	7.6	801.7	8,964.2	13,311.6	0.3	22,276.1	2,245.5	8,308.7	13.3	32,843.6	33,645.3								
1985	382.5	421.1	6.6	6.8	36.3	25.5	6.3	20.3	18.4	923.9	5,885.6	9,435.8	0.8	15,322.2	3,301.1	8,754.9	117.8	27,496.1	28,419.9								
1986	485.5	402.3	8.4	4.9	30.0	12.5	16.0	10.9	15.1	985.6	9,090.5	16,213.3	0.9	25,304.7	3,138.1	10,486.8	100.0	39,029.6	40,015.2								
1987	475.2	532.1	13.1	2.1	27.3	20.8	5.7	5.5	8.0	1,089.8	13,721.2	13,546.3	3.3	27,270.8	4,461.0	6,799.4	50.6	38,581.8	39,671.6								

Table 7. Weight (lb x 1000) of "other" finfish species landed commercially from Texas bay systems during 1977-1987. Data based on MMRP.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	3.0
Atlantic cutlassfish	0	0	0	0	0	0	0	0	0	0	0	3.9
Atlantic moonfish	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0
Atlantic spadefish	0	0	0	0	0	0	0	0.5	0	0.4	0	0
Florida pompano	0.4	0.5	2.1	0.4	0.2	0.2	5.1	2.0	2.7	1.7	<.1	<.1
Gulf butterfish	0	0	0	0	0	0	0	0	0	0.1	0	0
Kingfish, southern	0	0	0	0	0	0	0	0	0	0	<.1	<.1
Kingfish, unclassified	6.6	4.8	7.9	6.2	2.7	47.9	8.7	2.2	6.2	4.0	3.8	3.8
Mackerel	0	0	0	0	0	0	0	0.1	1.1	<.1	0	0
Red drum	899.8	853.5	676.9	1,106.4	604.3	0	0	0	0	0	0	0
Sand seatrout	6.5	6.4	9.8	3.5	16.2	3.6	1.2	3.6	2.6	4.6	1.2	1.2
Shark, unclassified	0	0	0	0	0	0	0	0.1	0.6	0.1	1.7	1.7
Spotted seatrout	1,235.0	1,118.6	899.3	928.3	617.2	0	0	0	0	0	0	0
Stingray	0	0	0	0	0	0	0	0	0	0	0	<.1
Total	2,148.3	1,983.8	1,596.0	2,044.8	1,240.6	51.7	15.0	8.5	13.3	11.0	13.7	13.7

Table 8. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from Texas bay systems during 1977-1987. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	2.6
Atlantic cutlassfish	0	0	0	0	0	0	0	0	0	0	0	0.3
Atlantic moonfish	0	0	0	0	0	0	0	0	<.1	<.1	<.1	0
Atlantic spadefish	0	0	0	0	0	0	0	0.2	0	0.2	0	0
Florida pompano	0.2	0.5	2.6	0.6	0.3	0.4	2.4	1.1	2.6	2.4	<.1	<.1
Gulf butterfish	0	0	0	0	0	0	0	0	0	<.1	<.1	0
Kingfish, southern	0	0	0	0	0	0	0	0	0	0	0	<.1
Kingfish, unclassified	1.2	0.8	1.8	1.1	0.7	10.6	2.1	0.6	1.8	1.5	1.5	1.5
Mackerel	0	0	0	0	0	0	0	<.1	1.0	<.1	<.1	0
Red drum	483.9	588.3	564.2	1,016.5	683.8	0	0	0	0	0	0	0
Sand seatrout	3.6	3.9	6.6	1.4	2.5	1.2	0.6	2.1	0.9	1.6	1.6	0.5
Shark, unclassified	0	0	0	0	0	0	0	<.1	0.3	<.1	<.1	0.6
Spotted seatrout	660.2	739.8	770.4	911.1	699.9	0	0	0	0	0	0	0
Stingray	0	0	0	0	0	0	0	0	0	0	0	<.1
Total	1,149.1	1,333.3	1,345.6	1,930.7	1,387.2	12.2	5.1	4.0	6.6	5.7	5.7	5.5

Table 9. Weight (lb x 1000) of "other" shellfish species landed commercially from Texas bay systems during 1977-1987. Data based on MMPR.

Species	Year										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Atlantic bay scallop	0	0	0	0	0	0	0	0	0.1	5.3	0
Mantis shrimp	0	0	0	0	0	0	0	0	0	0	0.1
Squid	5.3	4.3	0.3	0	0	10.1	2.6	10.0	17.6	25.7	45.6
Stone crab	0	0	0	0	0	0	0	15.0	135.8	153.7	60.6
Total	5.3	4.3	0.3	0	0	10.1	2.6	25.0	153.5	184.7	106.3

Table 10. Ex-vessel (\$ x 1000) of "other" shellfish species landed commercially from Texas bay systems during 1977-1987. Data based on MMPR.

Species	Year										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Atlantic bay scallop	0	0	0	0	0	0	0	0	0.4	2.4	0
Mantis shrimp	0	0	0	0	0	0	0	0	0	0	<.1
Squid	1.8	1.2	0.1	0	0	4.0	1.3	3.7	7.3	19.9	19.3
Stone crab	0	0	0	0	0	0	0	9.6	110.2	77.7	31.2
Total	1.8	1.2	0.1	0	0	4.0	1.3	13.3	117.9	100.0	50.5

Table 11. Weight (1b x 1000) of each species landed commercially from the Gulf of Mexico during 1977-1987. Data based on MMPR.

Year	Finfish											Shrimp					Shellfish			Grand Total		
	Black drum	Flounder	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food Scrap	Total	Brown and pink	White	Other	Total	Blue crab	Other	Total			
																					Blue crab	Other
1977	62.8	100.5	13.4	33.7	26.8	0.9	20.0	22.0	440.0	166.3	72.0	43.0	1,001.4	67,186.4	10,028.8	258.7	77,473.9	11.2	8.5	77,493.6	78,495.0	
1978	33.2	44.5	27.1	10.9	19.8	28.3	13.7	39.9	428.5	61.7	27.4	36.1	730.7	57,240.3	13,171.5	332.3	70,744.1	1.8	11.2	70,757.1	71,487.8	
1979	26.7	25.7	0.4	22.6	8.8	28.8	7.7	14.3	214.7	149.5	31.0	62.6	592.8	43,265.0	8,446.5	719.2	52,430.7	0.5	0.9	52,432.1	53,024.9	
1980	11.2	45.1	0.4	7.1	13.3	4.4	2.2	23.1	231.6	61.5	12.1	8.8	420.8	50,300.6	7,422.2	1,325.6	59,048.4	3.6	0	59,052.0	59,472.8	
1981	14.3	28.7	2.6	9.2	13.5	10.4	13.7	29.8	165.9	40.2	34.4	4.7	367.4	71,337.7	10,064.5	1,075.7	82,478.0	6.4	0	82,484.3	82,851.7	
1982	24.5	96.5	1.4	18.8	3.7	11.5	20.4	17.2	34.8	261.9	1.1	47.5	492.5	40,657.1	12,336.2	916.9	53,910.2	35.1	5.2	53,950.4	54,442.9	
1983	12.0	75.0	5.8	3.7	11.2	14.9	9.8	12.7	33.1	452.2	80.2	29.2	2.6	760.5	50,332.7	17,442.5	232.4	68,007.6	27.3	17.0	68,051.9	68,812.4
1984	30.9	79.0	4.8	11.2	14.9	9.8	12.7	33.1	452.2	80.2	29.2	2.6	760.5	50,332.7	17,442.5	232.4	68,007.6	27.3	17.0	68,051.9	68,812.4	
1985	11.9	73.9	18.3	26.1	20.5	42.7	6.0	250.1	663.5	217.7	67.0	7.5	1,405.3	48,254.1	17,100.7	603.2	65,958.0	31.0	15.1	66,004.1	67,409.4	
1986	15.6	67.1	12.3	18.6	14.9	3.8	11.3	224.3	917.7	504.6	3.8	2.6	1,796.6	58,226.6	16,584.2	1,741.7	76,552.5	82.9	14.8	76,650.2	78,446.8	
1987	96.4	69.6	11.1	32.3	29.6	0.7	8.1	345.1	701.2	358.9	20.6	9.1	1,682.7	55,067.8	9,625.0	5,118.1	69,810.9	37.3	16.4	69,864.6	71,547.3	

Table 12. Ex-vessel (\$ x 1000) of each species landed commercially from the Gulf of Mexico during 1977-1987. Data based on MMPR.

Year	Finfish											Shrimp					Shellfish			Grand Total	
	Black drum	Flounder	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food Scrap	Total	Brown and pink	White	Other	Total	Blue crab	Other	Total		
																					Blue crab
1977	12.0	49.2	4.3	5.5	4.2	0.2	4.7	5.2	420.9	91.6	12.8	4.9	615.2	97,992.2	16,356.9	234.9	114,584.0	2.2	4.2	114,590.4	115,205.6
1978	6.8	24.0	12.7	1.6	2.7	2.5	4.4	9.8	403.5	35.9	5.8	3.7	513.4	99,880.9	28,144.5	344.6	118,370.0	0.3	4.4	118,374.7	118,888.1
1979	8.8	16.5	0.1	3.8	1.2	2.4	2.8	6.7	261.6	125.8	9.4	7.5	446.5	111,178.3	23,575.7	381.0	135,135.0	0.2	0.2	135,135.4	135,581.9
1980	3.0	31.2	0.1	1.4	2.3	0.7	1.1	9.7	351.3	60.0	5.2	0.7	466.7	107,142.1	15,570.3	431.8	123,144.2	0.8	0	123,145.0	123,611.7
1981	4.6	20.6	2.1	1.7	2.8	1.3	7.3	14.2	267.8	50.4	7.2	0.3	380.3	129,069.4	24,541.3	317.9	153,928.6	1.7	0	153,930.3	154,310.6
1982	9.0	82.4	0.5	4.9	5.1	0.5	13.1	42.7	669.2	3.3	17.6	0.1	848.4	126,037.3	30,800.9	504.1	157,342.3	0.8	1.0	157,344.1	158,192.5
1983	5.6	51.2	1.9	0.9	2.8	3.3	10.2	31.9	383.5	0.3	12.3	0.2	504.1	113,408.4	33,074.0	330.7	146,813.1	10.6	2.0	146,825.7	147,329.8
1984	9.3	55.6	2.0	2.5	3.4	1.4	8.7	27.5	818.3	33.0	11.5	0.2	973.4	116,760.5	40,295.5	198.2	157,254.2	7.0	6.0	157,870.4	158,843.8
1985	6.2	62.8	7.8	4.8	6.5	5.7	4.0	212.7	1,242.4	215.3	18.6	1.4	1,788.3	107,535.6	38,360.8	164.1	146,060.5	8.5	6.1	146,078.8	147,867.1
1986	8.9	54.7	5.5	5.6	5.2	0.9	7.7	216.5	1,711.2	595.3	2.0	0.6	2,614.1	158,211.5	44,669.2	924.7	203,805.4	32.4	6.8	203,844.6	206,458.7
1987	65.7	61.3	2.5	10.5	10.1	0.1	5.8	452.8	1,313.5	589.1	5.1	1.5	2,518.0	130,970.1	24,065.6	3,644.0	158,679.7	12.6	7.0	158,699.3	161,217.3

Table 13. Weight (lb x 1000) of "other" finfish species landed commercially from the Gulf of Mexico during 1977-1987. Data based on MMPR.

Species	Year										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Atlantic croaker	2.8	10.2	3.7	2.7	2.4	0.4	1.1	1.2	1.9	2.5	5.3
Atlantic moonfish	0	0	0	0	0	0	0	0	0	<.1	0
Atlantic spadefish	0	0	0	0	0	0	0	0	0	0.1	0
Bluefish	0	0	0	0	0	0	0	0	0	1.3	10.3
Codfish	0	0	0	0	0	0	0	0.2	0	0.5	0.1
Crevalle, Jack	0	0	0	0	0	0	0	0	0	0	1.7
Dolphin	0	0	0	0	0	0	0	0.1	0.2	2.9	1.9
Florida pompano	0.5	0.5	1.5	0.8	0.2	3.6	0	4.0	13.0	13.5	15.1
Greater amberjack	0	0	0	0	0	0	0	13.7	27.9	106.1	96.5
Gulf butterfish	0	0	0	0	0	0	0	0	4.9	0.1	2.2
Mackerel, king	0	0	0.2	0	0	0	0	1.2	2.5	1.5	2.5
Mackerel, Spanish	0	0	0	0	0	0	0	0	0.2	0.2	0.8
Red drum	51.0	7.6	13.1	8.1	9.0	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0.1	2.3	0.6	2.6
Shark, blacktip	0	0	0	0	0	0	0	0	0	0.7	4.9
Shark, shortfin mako	0	0	0	0	0	0	0	0	0.5	6.9	4.1
Shark, unclassified	0	0	0	0	0	0	0	9.8	63.4	105.3	31.3
Spotted seatrout	111.8	43.4	131.0	49.7	28.6	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0	0	31.9	85.5	46.4
Tilefish	0	0	0	0	0	0	0	0	41.8	7.3	35.6
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0.3	0.2
Tuna, Atlantic Bonito	0	0	0	0	0	0	0	0	0	0	0.1
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0.3	0
Tuna, bluefin	0	0	0	0	0	0	0	33.3	2.7	1.1	1.4
Tuna, little	0	0	0	0	0	0	0	0	0	0	0.2
Tuna, unclassified	0	0	0	0	0	0	0	6.7	22.8	79.0	14.9
Tuna, yellowfin	0	0	0	0	0	0	0	9.3	1.5	100.6	79.8
Wahoo	0	0	0	0	0	0	0	0	0	0.1	1.0
Total	166.1	61.7	149.5	61.3	40.2	4.0	1.1	79.7	217.5	518.1	358.9

Table 14. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from the Gulf of Mexico during 1977-1987. Data based on MMPR.

Species	Year										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Atlantic croaker	0.6	1.5	0.6	0.2	0.5	0.1	0.2	0.5	0.4	0.8	1.9
Atlantic moonfish	0	0	0	0	0	0	0	0	0	<.1	0
Atlantic spadefish	0	0	0	0	0	0	0	0	0	<.1	0
Bluefish	0	0	0	0	0	0	0	0	0	0.7	4.4
Codfish	0	0	0	0	0	0	0	0.1	0	0.2	0.1
Crevalle, Jack	0	0	0	0	0	0	0	0	0	0	0.4
Dolphin	0	0	0	0	0	0	0	0	0.2	3.0	2.2
Florida pompano	0.3	0.6	2.4	1.1	0.3	3.2	0.1	5.6	12.3	12.6	18.0
Greater amberjack	0	0	0	0	0	0	0	10.3	19.2	58.6	58.6
Gulf butterfish	0	0	0	0	0	0	0	0	2.6	<.1	1.1
Mackerel, king	0	0	0.2	0	0	0	0	0.9	2.1	1.1	1.5
Mackerel, Spanish	0	0	0	0	0	0	0	0	0.1	0.2	0.3
Red drum	27.6	4.4	10.2	8.3	11.6	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0.6	2.1	0.3	1.9
Shark, blacktip	0	0	0	0	0	0	0	0	0	0.3	6.9
Shark, shortfin mako	0	0	0	0	0	0	0	0	0.4	6.3	10.1
Shark, unclassified	0	0	0	0	0	0	0	2.5	27.8	56.1	13.2
Spotted seatrout	63.0	29.4	112.4	50.4	38.0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0	0	93.3	251.3	198.3
Tilefish	0	0	0	0	0	0	0	0	39.5	6.1	30.6
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0.1	0.1
Tuna, Atlantic Bonito	0	0	0	0	0	0	0	0	0	0	0.1
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, bluefin	0	0	0	0	0	0	0	8.4	0.3	4.0	10.6
Tuna, Little	0	0	0	0	0	0	0	0	0	0	0.1
Tuna, unclassified	0	0	0	0	0	0	0	1.9	12.8	102.8	18.2
Tuna, yellowfin	0	0	0	0	0	0	0	1.9	2.0	100.6	209.2
Wahoo	0	0	0	0	0	0	0	0	0	0.1	1.3
Total	91.5	35.9	125.8	60.0	50.4	3.3	0.3	32.7	215.1	605.6	589.1

Table 15. Weight (lb x 1000) of "other" shellfish species landed commercially from the Gulf of Mexico during 1977-1987. Data based on MMPR.

Species	Year										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Spiny Lobster	0	0	0	0	0	0	0	0	0	0	0.1
Squid	8.5	11.2	0.9	0	0	3.4	5.2	17.0	15.1	14.8	14.8
Stone crab	0	0	0	0	0	0	0	3.9	3.2	<.1	1.5
Total	8.5	11.2	0.9	0	0	3.4	5.2	20.9	18.3	14.8	16.4

Table 16. Ex-vessel (\$ x 1000) of "other" shellfish species landed commercially from the Gulf of Mexico during 1977-1987. Data based on MMPR.

Species	Year										
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Spiny Lobster	0	0	0	0	0	0	0	0	0	0	0.2
Squid	4.2	4.4	0.2	0	0	1.0	2.0	6.0	6.1	6.8	6.0
Stone crab	0	0	0	0	0	0	0	3.6	3.8	<.1	0.7
Total	4.2	4.4	0.2	0	0	1.0	2.0	9.6	9.9	6.8	6.9

Table 17. Price (\$/lb) paid commercial fishermen for finfish during 1977-1987. Data based on MMPR.

Year	Black drum		Flounder		Sheepshead		Snapper		Other	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
1977	0.25-0.65	0.28	0.22-1.10	0.55	0.05-0.35	0.10	0.45-1.30	0.94	0.10-1.15	0.47
1978	0.30-0.65	0.34	0.40-1.30	0.73	0.05-0.35	0.12	0.85-1.65	1.04	0.05-1.35	0.59
1979	0.25-0.50	0.39	0.35-1.40	0.82	0.05-0.30	0.14	0.60-1.65	1.22	0.03-1.10	0.70
1980	0.35-0.70	0.51	0.25-1.25	0.79	0.03-0.25	0.14	0.65-1.95	1.52	0.05-1.25	0.85
1981	0.45-0.80	0.57	0.60-1.25	1.06	0.03-0.40	0.21	0.85-2.45	1.61	0.05-1.45	0.98
1982	0.45-0.85	0.63	0.50-1.35	0.97	0.10-0.50	0.25	0.60-2.15	1.01	0.05-0.85	0.26
1983	0.30-0.85	0.65	0.35-1.40	0.94	0.05-0.45	0.24	0.60-2.15	1.46	0.05-0.70	0.28
1984	0.25-0.80	0.49	0.50-1.00	0.92	0.05-0.30	0.20	1.45-2.95	1.80	0.05-1.50	0.32
1985	0.25-0.95	0.66	0.45-1.35	1.00	0.10-0.70	0.22	1.25-2.25	1.86	0.05-5.00	0.47
1986	0.10-1.20	0.70	0.16-2.05	0.96	0.08-0.64	0.27	0.30-2.78	1.86	0.05-6.00	0.82
1987	0.08-2.00	0.70	0.25-2.50	0.98	0.15-2.12	0.28	0.28-3.35	1.87	0.10-7.85	0.98

Table 18. Price (\$/lb) paid commercial fishermen for shellfish during 1977-1987. Data based on MMPR and MIFS.

Year	Brown and pink		White		Other		Blue crab		Eastern oyster	
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
1977	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	0.65-3.25	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	0.45-3.25	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	0.40-3.15	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	0.40-3.20	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
1982	0.50-4.20	2.56	0.50-5.15	2.39	0.40-0.80	0.42	0.23-0.60	0.30	1.05-1.65	1.46
1983	0.50-4.00	2.47	0.50-4.25	2.24	0.25-0.90	0.36	0.23-0.60	0.37	1.05-1.71	1.43
1984	0.20-4.13	2.02	0.63-4.82	1.91	0.24-1.73	0.85	0.22-0.60	0.31	1.29-2.06	1.60
1985	0.40-4.40	1.97	0.50-4.91	2.24	0.20-0.51	0.27	0.22-0.75	0.34	1.26-1.89	1.70
1986	0.42-3.30	2.47	0.40-4.22	2.19	0.25-0.90	0.53	0.15-0.72	0.33	0.86-2.83	1.86
1987	0.35-3.63	2.11	0.37-5.34	1.91	0.16-2.79	0.71	0.20-1.08	0.42	1.43-3.20	2.38

Figure 1. Texas bay systems and Gulf of Mexico grid zones.

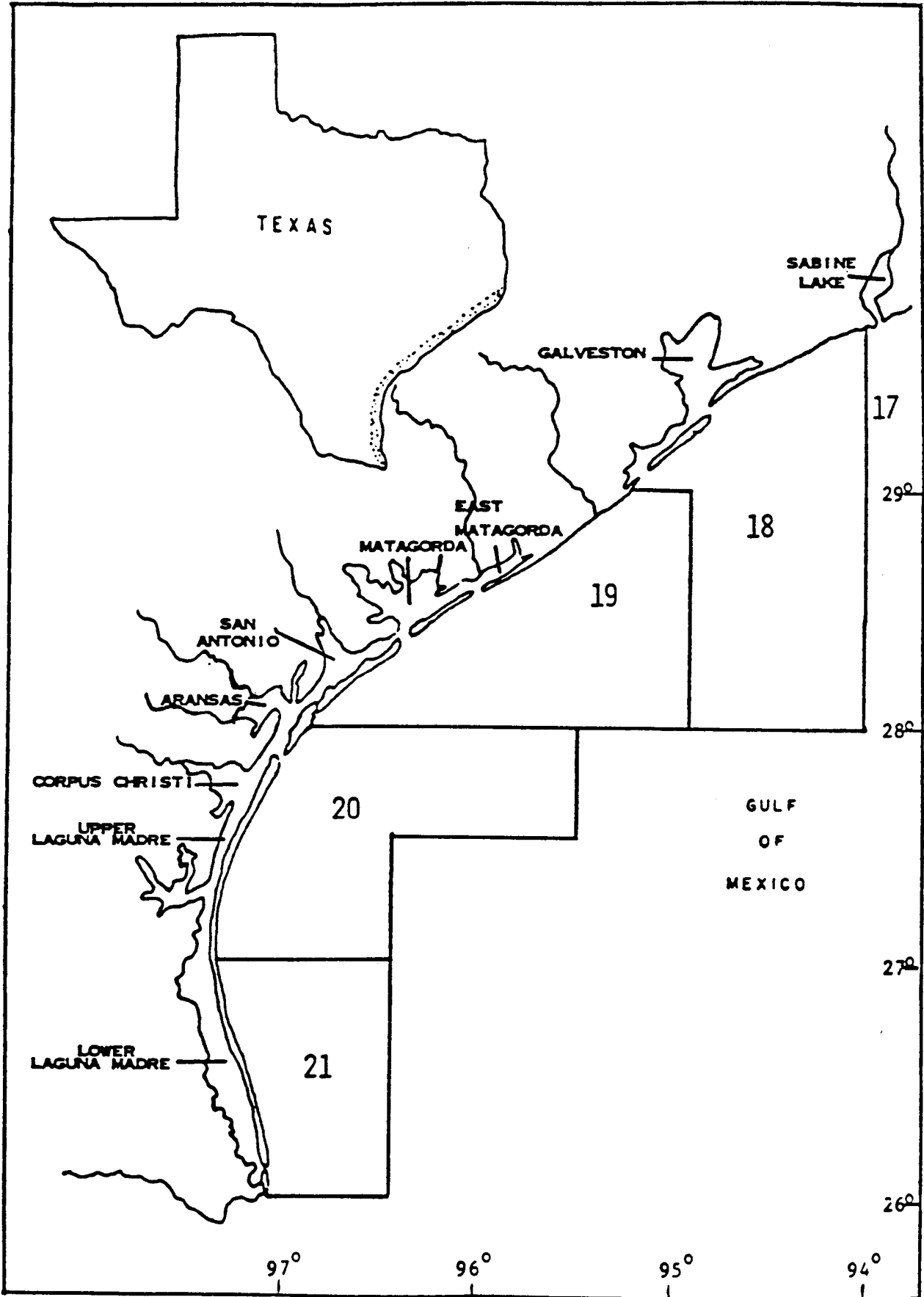


Figure 2. Monthly Marine Products Report (MMPR) form.

**MARINE PRODUCTS REPORT
(Dealer's Report)**

No. _____ For the Month of: _____ 19 _____

Dealer: _____

Address: _____

e u	Species Name	Name of Bay	Water Code	No. of Pounds	Price Per Pound	Name of Bay	Water Code	No. of Pounds	Price Per Pound
0570	Ling								
0925	Croaker								
1081	Drum								
1082	Redfish								
1235	Flounder								
1410	Grouper								
1970	Whiting								
2341	Mullet								
2720	Pompano								
3764	Red Snapper								
3380	Gafftop Catfish								
3447	Trout								
3560	Sheepshead								
1940	Mackerel								
4740	Warsaw								
5260	Unclassified Food								
5290	Unclassified Scrap								
7000	Crab (Live Weight)								
	Others (List)								
	Shrimp (Heads on)								
7360	Brown and Pink		9999						
7361	White		9999						
7362	Other		9999						
8030	Squid								

NOTE: If catch is from the Gulf, so indicate under "Name of Bay" columns.

Species Code	Species Name	Name of Bay	Water Code	No. of Pounds	No. of Barrels	Price Per Barrel
7891	Oysters					

NOTE: Do not complete section under "Water Code."

GEAR USED: _____

TEXAS PARKS AND WILDLIFE DEPARTMENT
P. O. Box 1717
Rockport, Texas 78382

Figure 3. Letters establishing formal cooperative commercial landings data collection agreement between the Texas Parks and Wildlife Department and the National Marine Fisheries Service.

November 20, 1984

Dr. Albert C. Jones
75 Virginia Beach Drive
Southeast Fisheries Center
National Marine Fisheries Center
Miami, Florida 33149

Dear Al:

Enclosed is a letter that your staff can provide to seafood dealers in Texas who handle mainly shrimp but also purchase fish, crabs, or oysters infrequently. This letter should be signed by the dealer who wishes to provide seafood landings data to NMFS for submission to the Parks and Wildlife Department (TPWD) pursuant to our informal agreement that has been in place since 1960 whereby NMFS collects commercial shrimp landings and TPWD collects all other seafood landings. Once signed, a copy of each letter should be sent to Dr. Gary Matlock at 4200 Smith School Road, Austin, Texas 78744.

Thank you for your cooperation in minimizing duplication of our respective programs. Please contact me if you have any questions.

Sincerely,

Robert J. Kemp
Director of Fisheries

RJK:GM:dr

Enclosure

cc: Kim Newlin
Orman Farley

Figure 4. 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
 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					

Figure 5. Monthly oyster landings form submitted to the Seabrook office of the Texas Parks and Wildlife Department.

OYSTER HARVEST MONTHLY REPORTS
PRIVATE OYSTER LEASE
REGION IV

HARVEST REPORT FOR MONTH OF _____

PERMIT NO. _____

OYSTER LEASE NO. _____

NAME OF LEASE HOLDER _____

ADDRESS _____

BOATS USED FOR THIS LEASE THIS MONTH _____

NO. BARRELS HARVESTED _____

OR

NO. BUSHELS HARVESTED _____

NAME OF DEALER(S) BUYING OYSTERS _____

ADDRESS _____

SIGNATURE

This report must be submitted to the Regional Director for Coastal Fisheries, Region IV, Parks and Wildlife Department, 1018 Toddville Road, P.O. Box 8, Seabrook, Texas 77586, by the 5th of the following month after harvest of oysters from private lease.

Figure 6. Annual Oyster Location Lease Report form.

OYSTER LOCATION LEASE REPORT

Leaseholder: _____
 Annual Rental: _____
 Lease Number: _____
 Date Filed: _____
 Acreage: _____

Section 76.017 - 76.018 Parks and Wildlife Code:

The owner or locator of private oyster beds under the foregoing provisions shall not be required to pay any rentals on such locations for a period of five years, or till such time as he shall begin to market or sell oysters from such location or bed. When such locator shall begin to sell or market oysters from such location, he shall pay the State three dollars per acre per annum and ten cents a barrel on oyster sales.

Failure to pay such rental by the first day of March of each year shall annul and be a forfeiture of his lease. And if oysters are not marketed or sold from such location within five years from the date of location, such location shall become void.

IMPORTANT: PLEASE NOTE CHANGE IN LAW RESULTING IN INCREASE.

Enclosed is my rental payment for Lease # _____:

Lease (_____ acres @ \$3.00 per acre)	\$ _____
Oyster Sales (_____ barrels @ 10¢ per barrel)	\$ _____
Total Remittance	\$ _____

 Signature

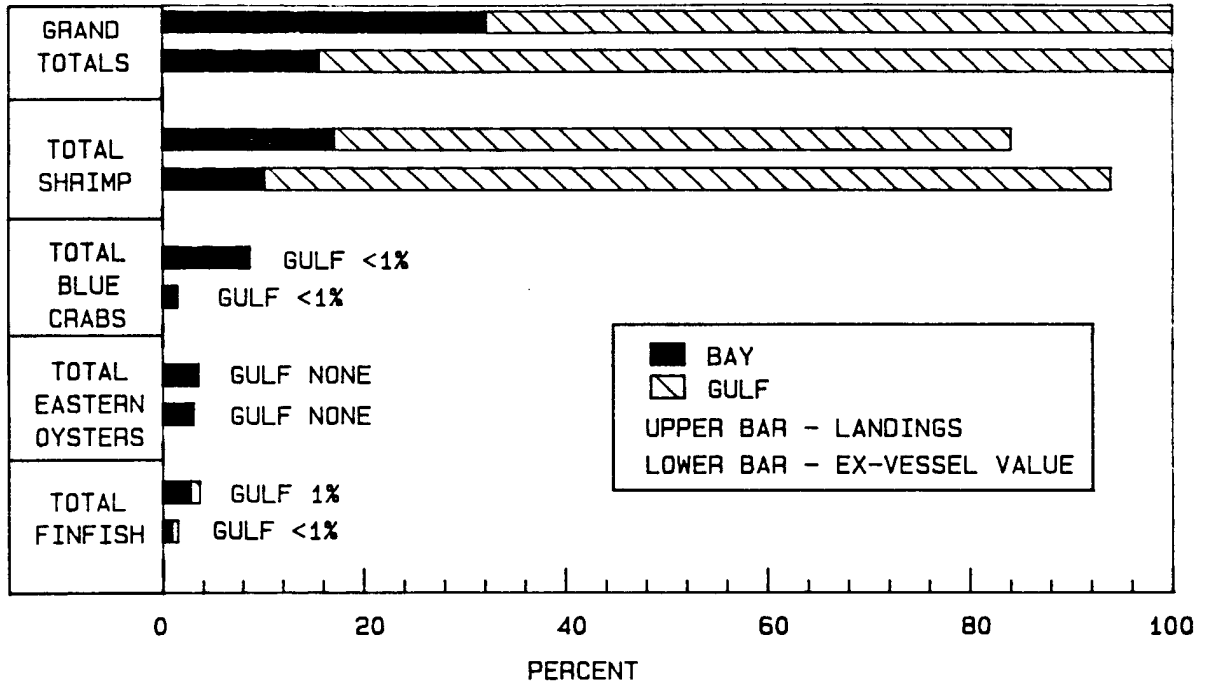
 Date

FAILURE TO PAY RENTAL ON THIS LEASE BY MARCH 1, 1987 SHALL ANNUL AND BE A FORFEITURE OF THE LEASE ACCORDING TO LAW.

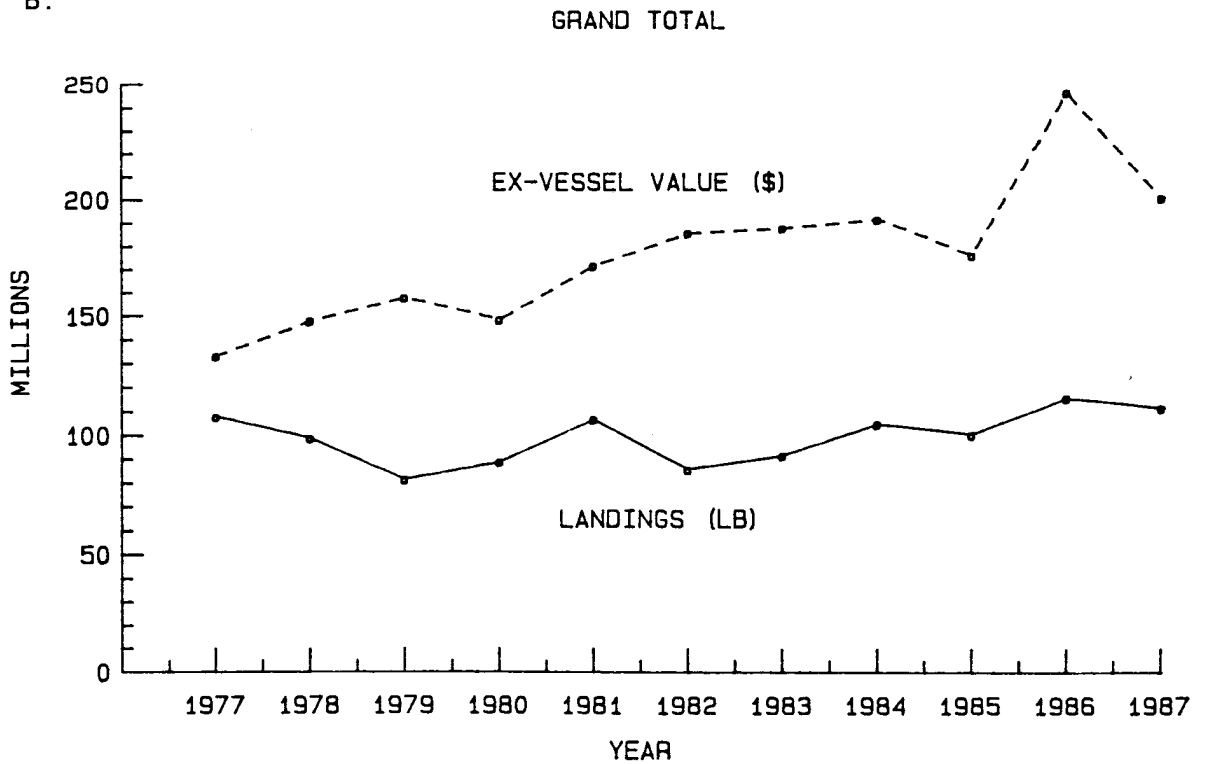
Please Return Report To:
 Texas Parks and Wildlife Department
 Revenue Branch
 4200 Smith School Road
 Austin, Texas 78744

- Figure 7.
- A. A comparison of bay and Gulf landings and ex-vessel values for the four major seafood groups, expressed as percents of their respective coastwide totals for 1977 through 1987.
 - B. Texas commercial landings (lb) and ex-vessel values (\$) for all seafood (grand total), by year for 1977 through 1987.

Data for Figure 7 derived from MMPR and NMFS surveys.



B.

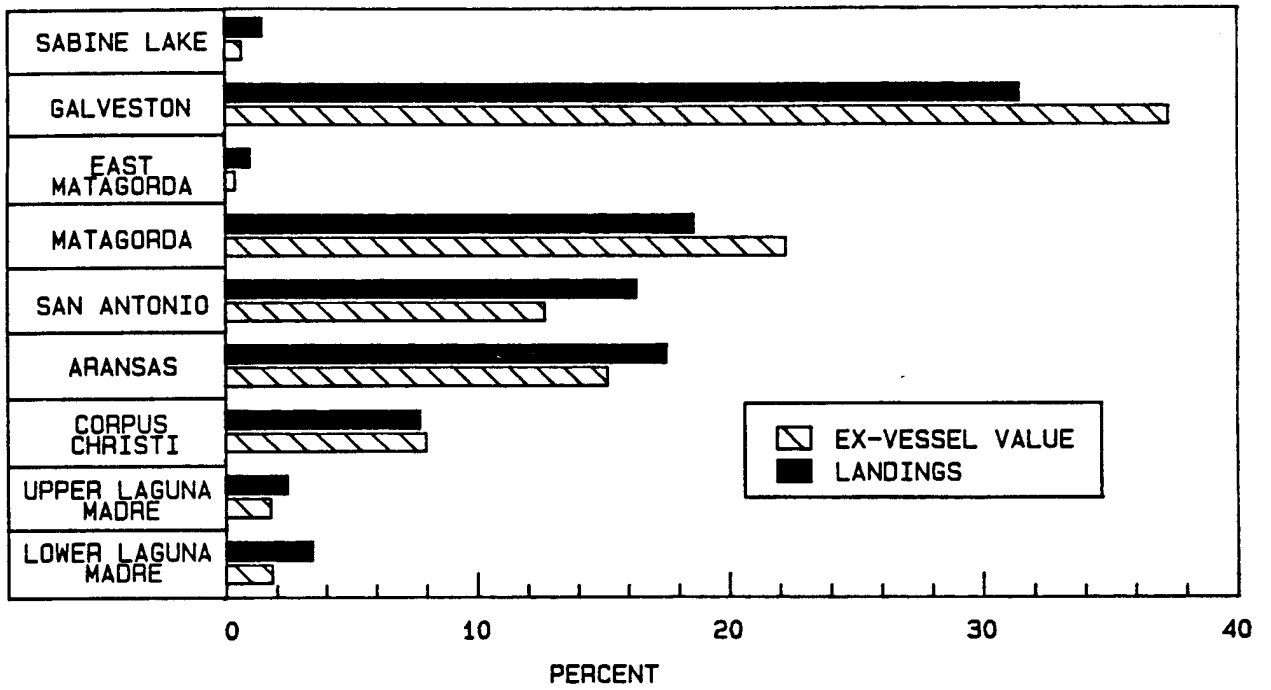


- Figure 8.
- A. Total commercial bay landings and ex-vessel values by bay system as a percent of the total coastwide bay landings for 1977 through 1987.
 - B. A comparison of commercial landings (excluding shrimp) and ex-vessel values for offshore grid zones, expressed as percents of their respective coastwide Gulf totals for 1977 through 1987. Bay systems adjacent to offshore grid zones are: 17.0-Sabine lake; 18.0-Galveston; 19.0-Matagorda, San Antonio, Aransas; 20.0-Corpus Christi, Upper Laguna Madre; 21.0-Lower Laguna Madre.

Data for Figure 8 derived from MMPR.

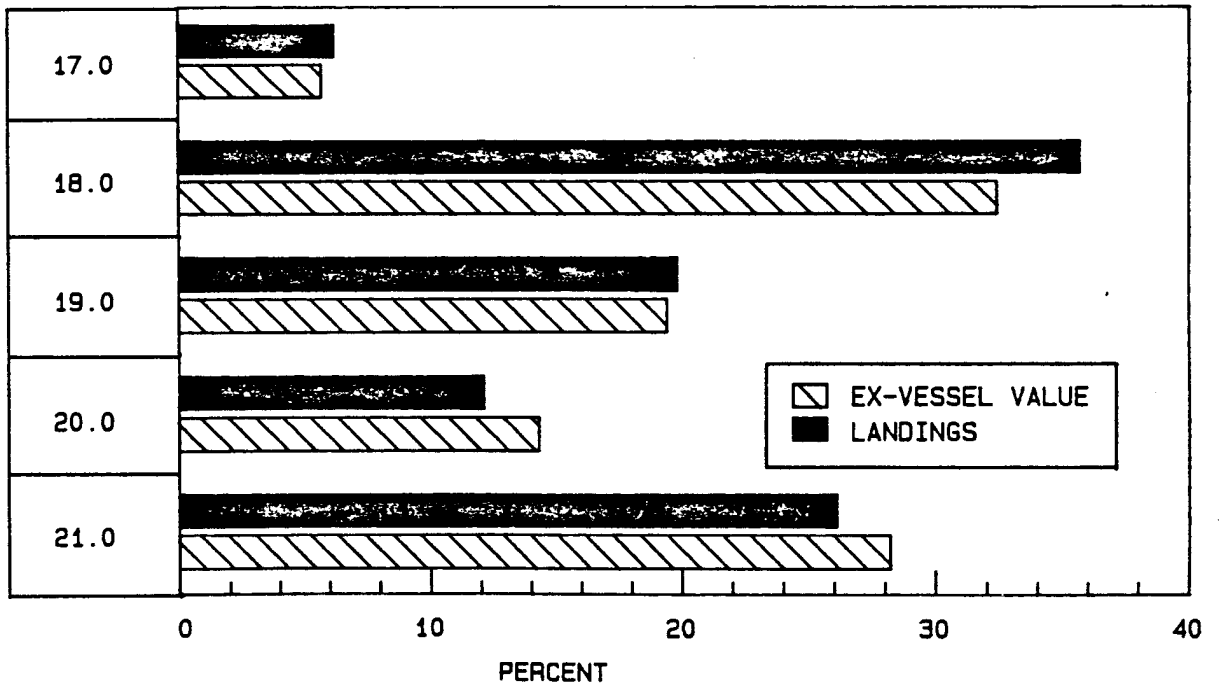
A.

BAY SYSTEM



B.

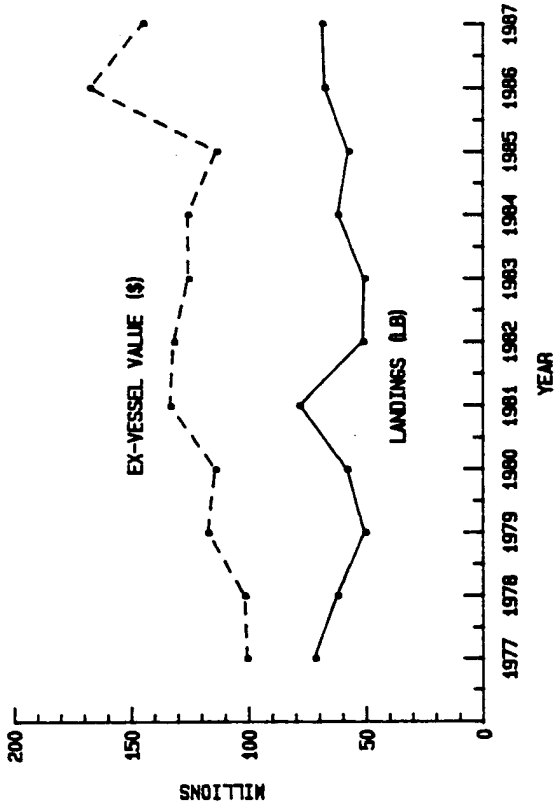
GRID ZONE



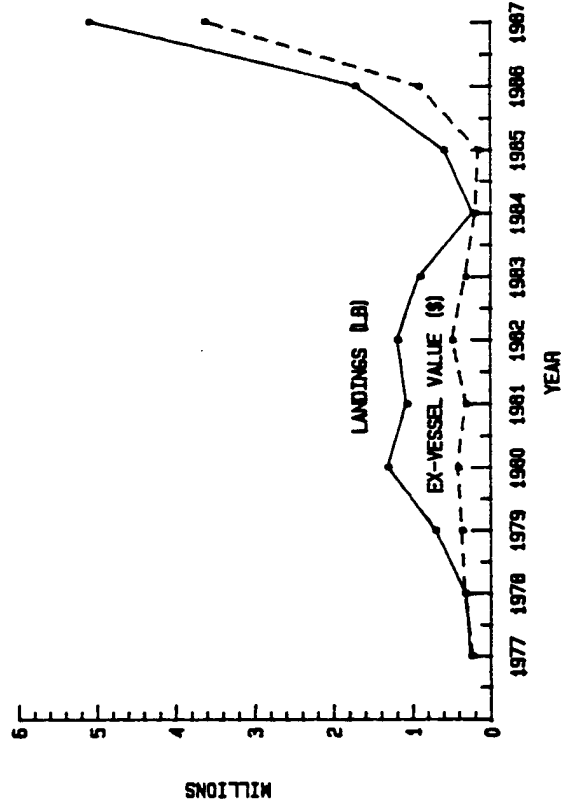
- Figure 9.
- A. A comparison of bay and Gulf landings and ex-vessel values for the major shrimp groups, expressed as percents of their respective coastwide totals for 1977 through 1987.
 - B. Texas commercial brown and pink shrimp landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - C. Texas commercial white shrimp landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - D. Texas commercial landings (lb) and ex-vessel values (\$) for unspecified shrimp (other shrimp) by year for 1977 through 1987.

Data for Figure 9 derived from NMFS surveys.

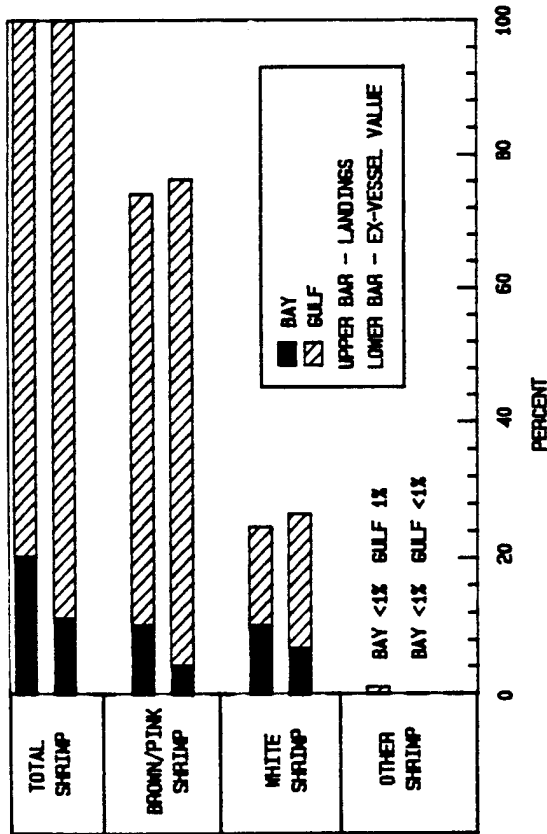
B. BROWN AND PINK SHRIMP



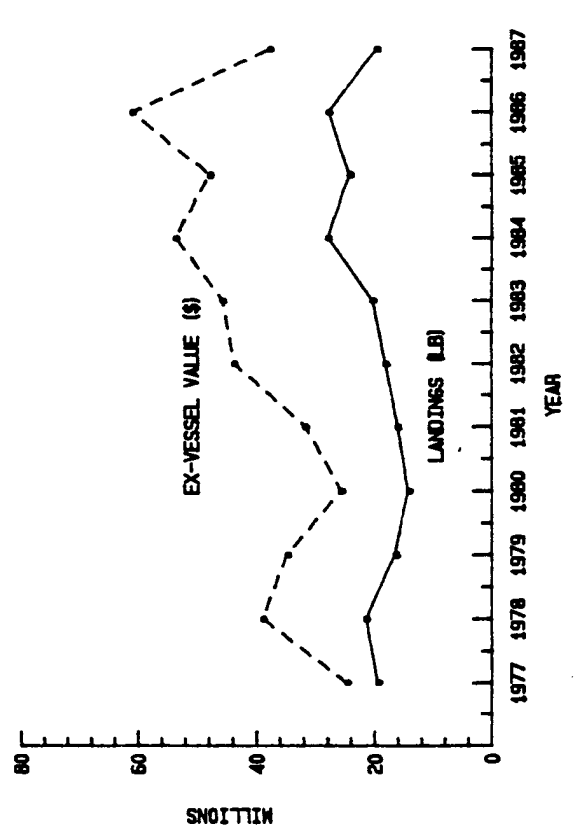
D. OTHER SHRIMP



A. TOTAL SHRIMP



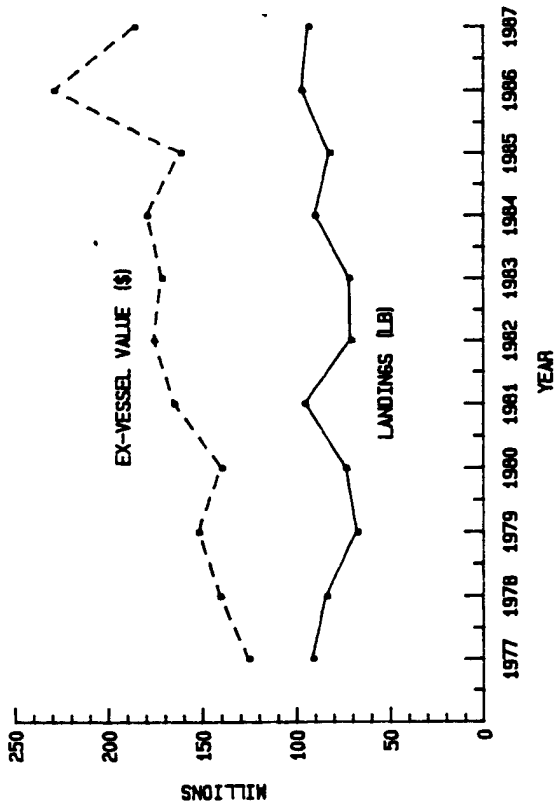
C. WHITE SHRIMP



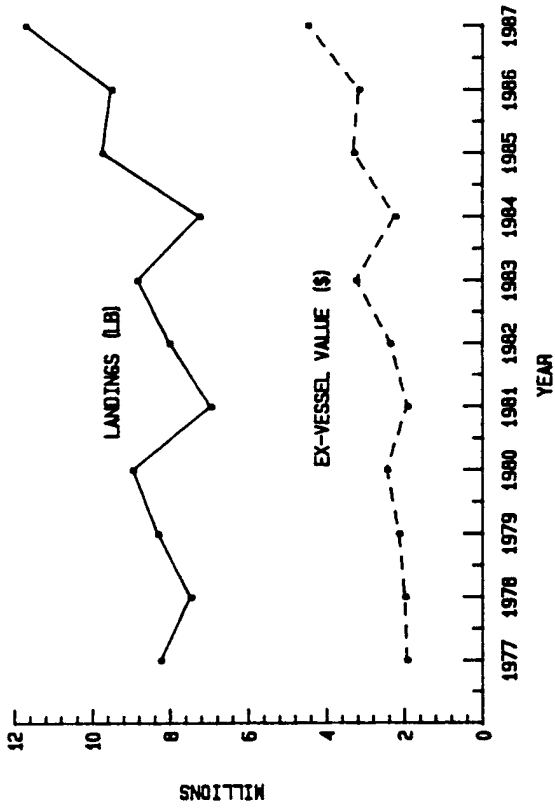
- Figure 10.
- A. Texas commercial landings (lb) and ex-vessel values (\$) for all shrimp (total shrimp) by year for 1977 through 1987. Data derived from NMFS surveys.
 - B. Texas commercial blue crab landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - C. Texas commercial Eastern oyster landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - D. Texas commercial landings (lb) and ex-vessel values (\$) of unspecified shellfish (other shellfish) by year for 1977 through 1987.

Data for Figure 10.B-C derived from MMPR.

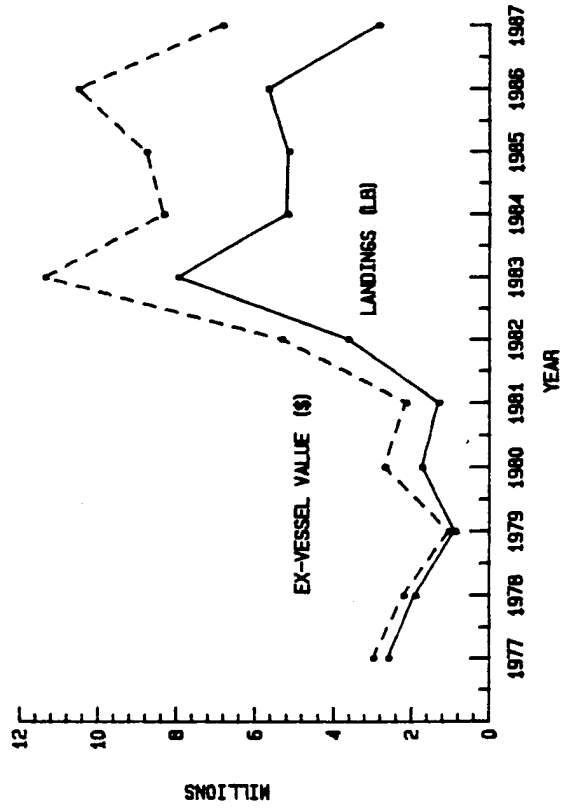
A. TOTAL SHRIMP



B. BLUE CRAB



C. EASTERN OYSTER



D. OTHER SHELLFISH

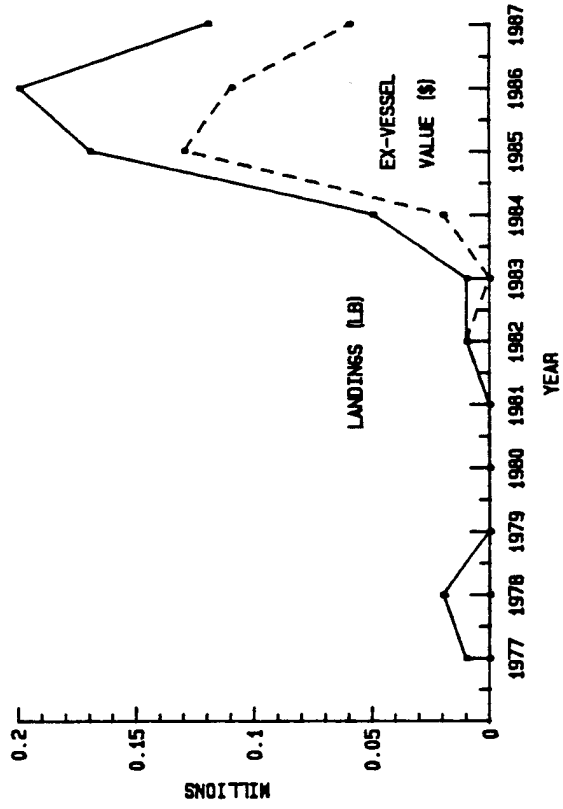
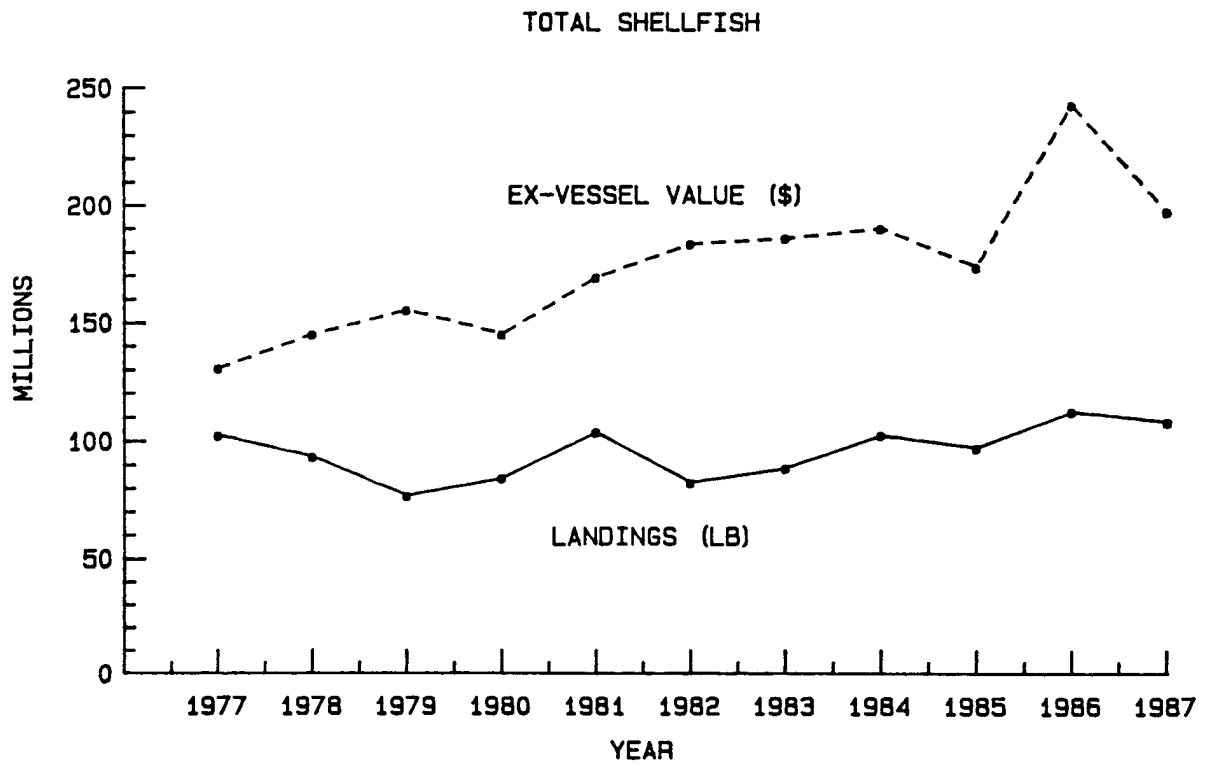
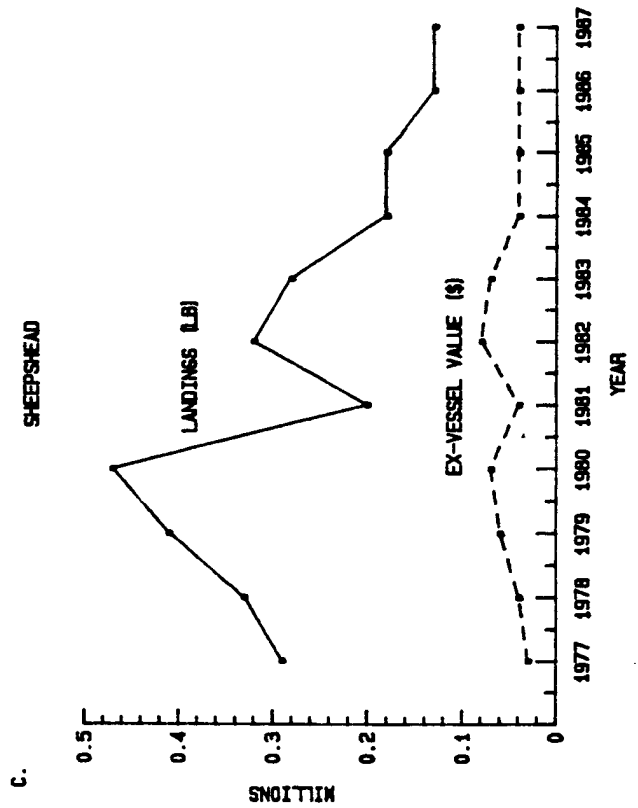
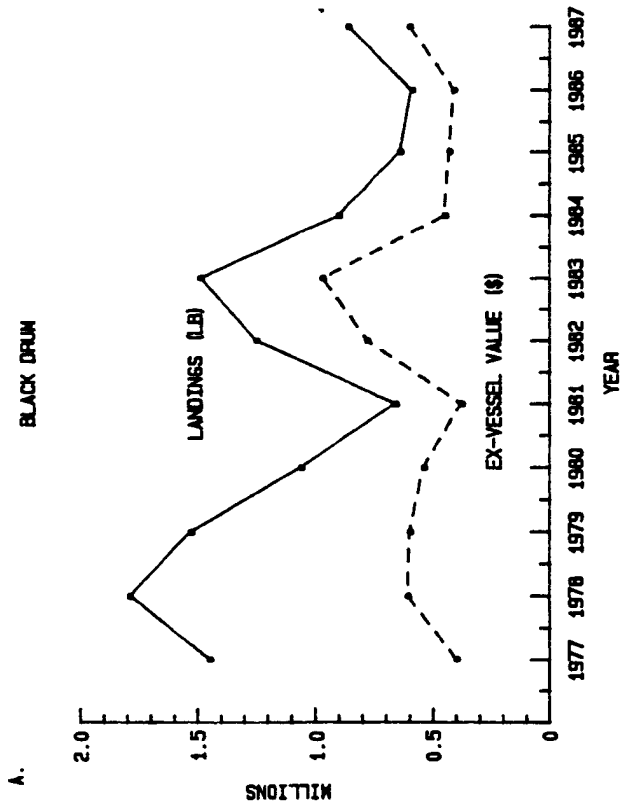
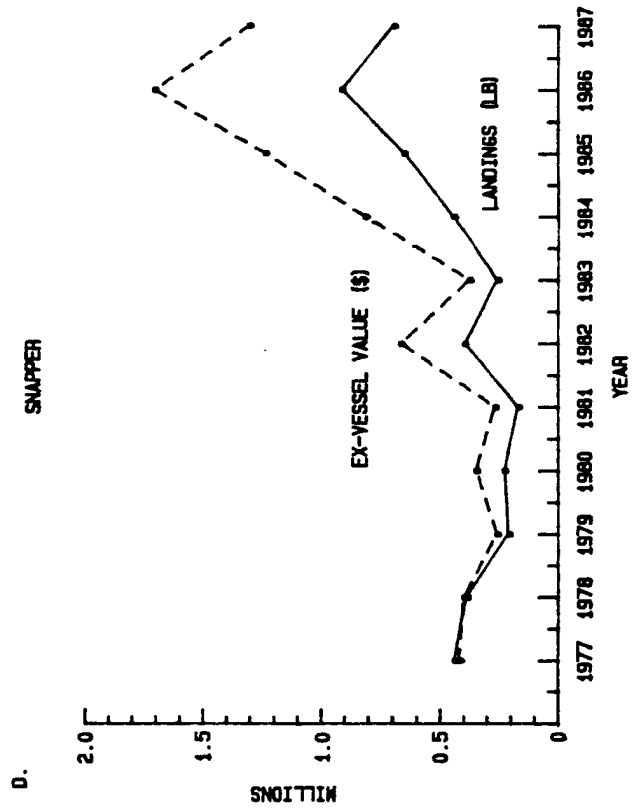
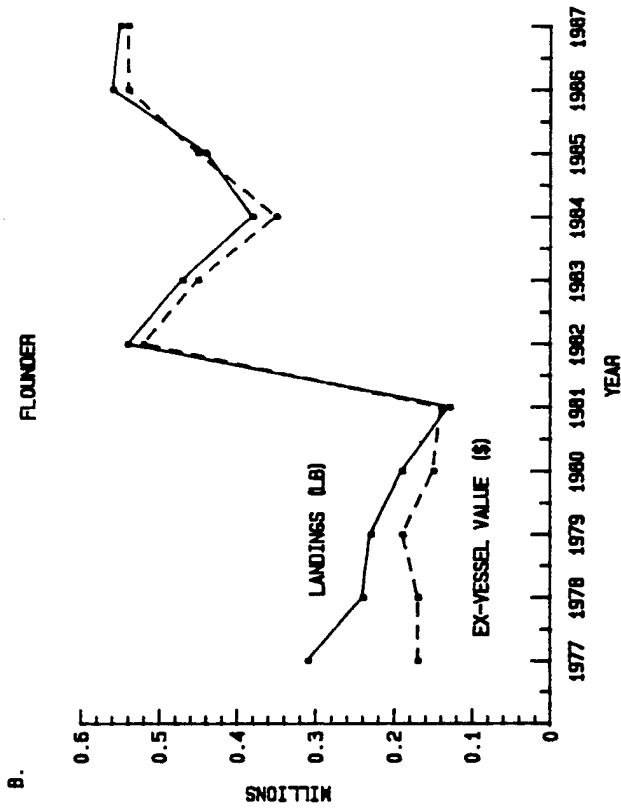


Figure 11. Texas commercial landings (lb) and ex-vessel values (\$) of all shellfish (total shellfish) by year for 1977 through 1987. Data derived from MMR and NMFS surveys.



- Figure 12.
- A. Texas commercial black drum landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - B. Texas commercial flounder landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - C. Texas commercial sheepshead landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.
 - D. Texas commercial snapper landings (lb) and ex-vessel values (\$) by year for 1977 through 1987.

Data for Figure 12 derived from MMPR.

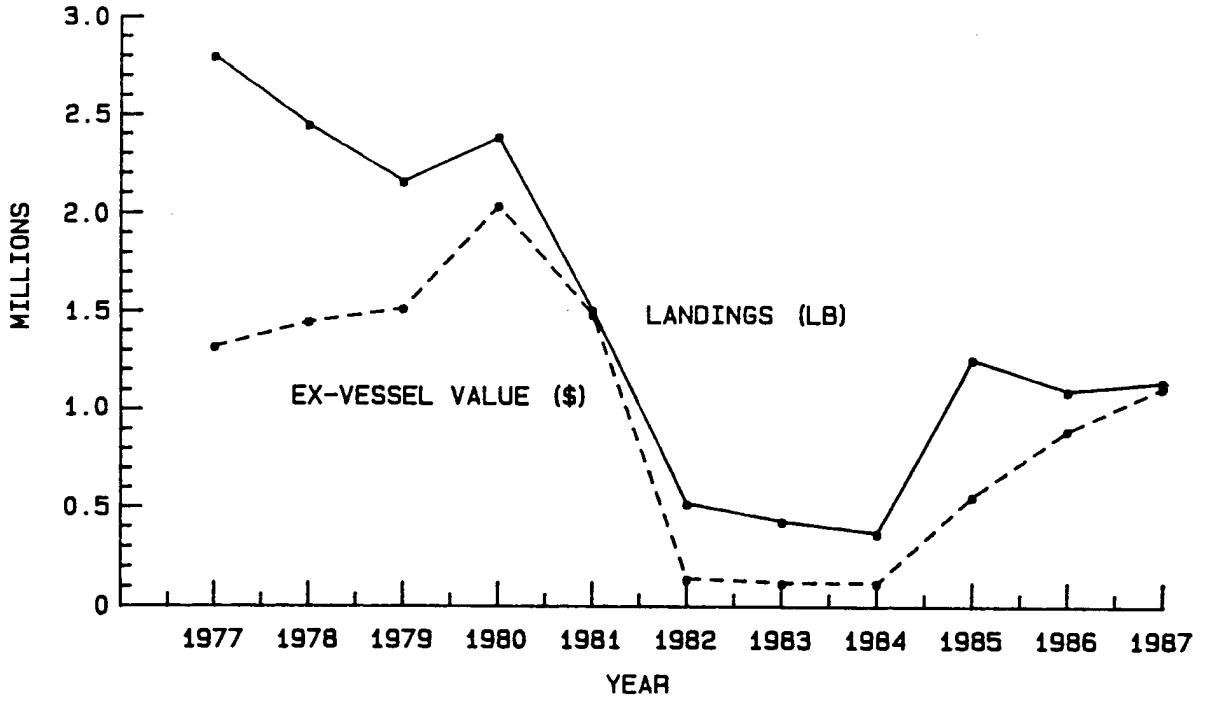


- Figure 13.
- A. Texas commercial landings (lb) and ex-vessel values (\$) of unspecified finfish (other finfish) by year for 1977 through 1987.
 - B. Texas commercial landings (lb) and ex-vessel values (\$) of all finfish (total finfish) by year for 1977 through 1987.

Data for Figure 13 derived from MMPR.

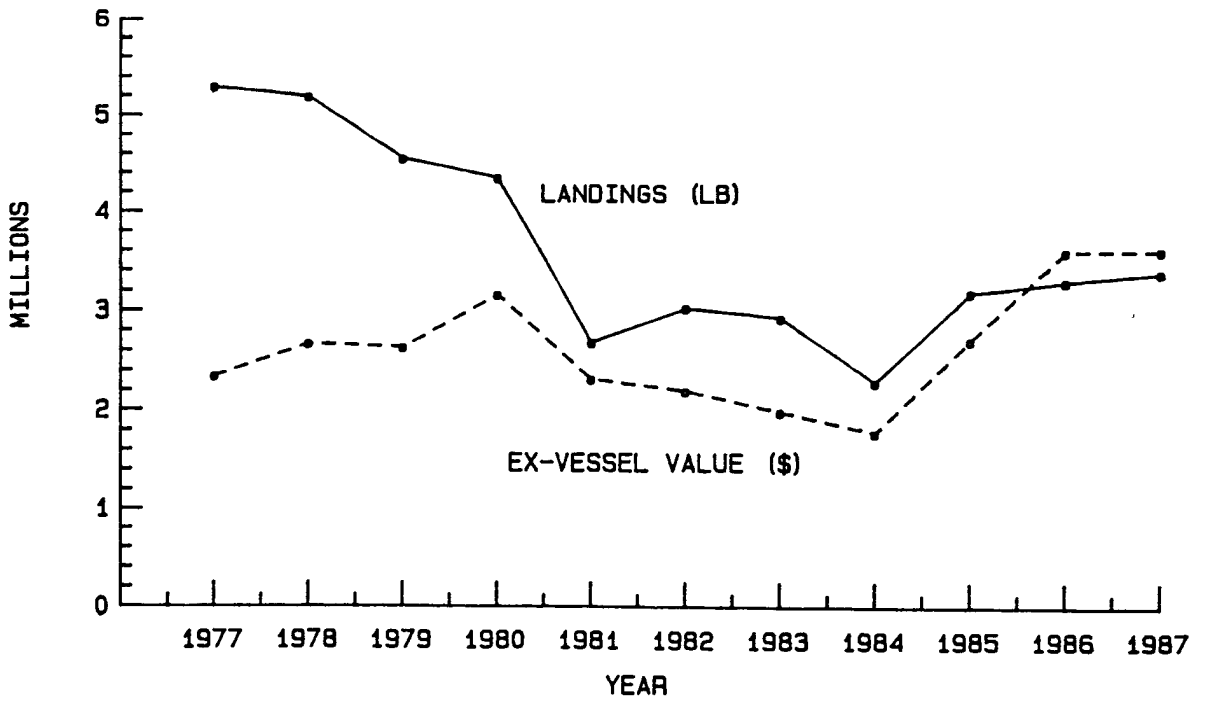
A.

OTHER FINFISH



B.

TOTAL FINFISH



Appendix A. Conversion factors used for finfish and shellfish.

Table A.1. Factors for converting finfish gutted weight to live weight.

Species	Conversion factors (divide by)	Reference
Atlantic croaker	0.85	TPWD unpublished data
Black drum	0.88	Harrington et al. (1979)
Florida pompano	0.85	NMFS (1980)
King mackerel	0.85	NMFS (1980)
Kingfish	0.85	TPWD unpublished data
Red drum	0.88	Harrington et al. (1979)
Sand seatrout	0.87	TPWD unpublished data
Shark	0.83	NMFS (1980)
Sheepshead	0.85	Harrington et al. (1979)
Snapper	0.85	TPWD unpublished data
Southern Flounder	0.93	Harrington et al. (1979)
Spanish mackerel	0.84	NMFS (1980)
Spotted seatrout	0.87	Harrington et al. (1979)
Swordfish	0.80	NMFS (1980)
Tilefish	0.91	NMFS (1980)
Yellowfin tuna	0.90	NMFS (1980)

Table A.2. Factors for converting finfish headed or collared weight to live weight.

Species	Conversion factors (divide by)	Reference
Black drum	0.61	TPWD unpublished data
Cobia	0.70	NMFS (1980)
Gafftopsail catfish	0.65	TPWD unpublished data
Grouper	0.70	NMFS (1980)
Snapper	0.61	TPWD unpublished data

Table A.3. Factors for converting blue crab to live weight and Eastern oyster to meat weight (TPWD unpublished data).

Species	Conversion factors (divide by)
Blue crab	6 lb/1 dozen
Eastern oyster (to oyster meat)	17.5 lb/barrel
Eastern oyster (to oyster meat)	8.75 lb/gallon
Live Eastern oyster	1 barrel = 3 bushels, baskets, or sacks

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

Species	Conversion factors (divide by)
Brown shrimp	1.61
Pink shrimp	1.60
Rock shrimp	1.67
Royal red shrimp	1.80
Sea bob	1.53
White shrimp	1.54

Appendix B. Weight (lb) and ex-vessel value (\$) of commercial finfish and shellfish landings from Texas bay systems during 1977-1987.

Table B.1. Weight (lb) of each species landed commercially from Sabine Lake system during 1977-1987. Data based on MMPR and IMFS.

Year	Finfish												Shrimp					Shellfish					Grand total																				
	Atlantic croaker			Gafftopsail catfish			Sheepshead			Kingfish			Mullet			Other			Unclassified Food Scrap			Total			Brown and pink			White			Other			Eastern oyster			Blue crab			Total			
	Black drum	Flounder	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap	Total	Brown and pink	White	Other	Total	Blue crab	Eastern oyster	Other	Total	Blue crab	Eastern oyster	Other		Total	Blue crab	Eastern oyster	Other	Total	Blue crab	Eastern oyster	Other	Total											
1977	980	687	0	39	139	37	0	934	0	2,816	2,336	4,212	9	6,548	226,100	0	0	0	232,648	235,464																							
1978	0	330	0	59	114	0	0	503	0	503	0	2,763	0	2,763	624,171	0	0	0	626,934	627,437																							
1979	556	51	9	764	60	56	274	0	248	2,027	0	0	0	2,027	163,301	0	0	0	163,301	165,328																							
1980	48	78	124	0	627	240	60	1,776	50	3,033	1,099	49,900	4,668	55,667	70,089	0	0	0	125,756	128,789																							
1981	219	119	0	76	238	12	461	230	45	1,400	12,830	43,248	0	56,078	72,624	0	0	0	128,702	130,102																							
1982	0	0	0	0	0	0	0	0	0	0	0	170,835	488	171,323	113,443	0	0	0	284,766	284,766																							
1983	379	567	0	430	1,201	0	0	140	2,717	0	740	0	740	172,874	0	0	0	173,614	176,331																								
1984	244	176	0	1,588	0	0	0	0	2,008	12,384	10,451	0	22,835	555,304	0	0	0	578,139	580,147																								
1985	486	2,283	0	1,592	552	0	62	94	275	5,344	0	21,169	0	21,169	673,758	0	0	0	694,927	700,271																							
1986	154	2,056	0	1,874	914	0	258	0	0	5,256	539	7,925	0	8,464	1,345,792	0	763	1,355,019	1,360,275																								
1987	153	2,277	0	655	2,349	421	0	1,296	200	7,776	203	173,190	0	173,393	626,649	0	130	800,172	807,948																								

Table B.2. Ex-vessel value (\$) of each species landed commercially from Sabine Lake system during 1977-1987. Data based on MMPR and IMFS.

Year	Finfish												Shrimp					Shellfish					Grand total																				
	Atlantic croaker			Gafftopsail catfish			Sheepshead			Kingfish			Mullet			Other			Unclassified Food Scrap			Total			Brown and pink			White			Other			Eastern oyster			Blue crab			Total			
	Black drum	Flounder	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap	Total	Brown and pink	White	Other	Total	Blue crab	Eastern oyster	Other	Total	Blue crab	Eastern oyster	Other		Total	Blue crab	Eastern oyster	Other	Total	Blue crab	Eastern oyster	Other	Total											
1977	281	424	0	8	34	7	0	555	0	1,309	1,098	2,529	0	3,627	57,906	0	0	0	61,533	62,842																							
1978	0	166	0	12	23	0	0	201	0	201	0	4,528	0	4,528	163,290	0	0	0	167,818	168,019																							
1979	199	25	2	2	169	13	13	172	0	54	649	0	0	649	49,330	0	0	0	49,330	49,379																							
1980	24	43	55	0	166	69	28	1,374	20	8	1,787	37,519	1,354	39,986	24,044	0	0	0	64,030	65,817																							
1981	81	56	0	0	15	51	6	364	35	5	613	8,600	38,279	46,879	29,574	0	0	0	76,453	77,066																							
1982	0	0	0	0	0	0	0	0	0	0	0	197,418	220	197,638	43,907	0	0	0	241,545	241,545																							
1983	197	412	0	94	254	0	0	21	978	0	1,029	0	1,029	74,656	0	0	0	75,685	76,663																								
1984	110	161	0	0	499	0	0	0	770	8,762	12,338	0	21,100	204,300	0	0	0	225,400	226,170																								
1985	462	2,024	0	0	602	243	0	31	59	41	3,462	0	10,747	231,323	0	0	0	242,070	245,532																								
1986	104	1,957	0	0	777	274	0	155	0	3,267	302	3,931	0	4,233	456,437	0	306	460,976	464,243																								
1987	61	2,273	0	542	992	149	0	1,030	30	65	5,142	151,207	0	151,581	236,594	0	59	388,234	393,376																								

Table B. 3. Weight (lb) of each species landed commercially from the Galveston Bay system during 1977-1987. Data based on MMPR and MFS.

Year	Finfish										Shellfish						Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap	Total	Shrimp		Blue crab	Eastern oyster		Other	Total	
									Brown and pink	White			Brown and pink	White						
1977	102,175	14,382	5,989	20,875	21,117	6,530	3,843	160,235	41,313	78,691	455,150	2,256,576	2,988,766	1,600	5,246,942	1,859,418	1,917,532	3,335	9,021,227	9,482,377
1978	161,887	55,173	8,937	32,554	55,504	4,647	1,946	362,499	75,265	49,282	807,694	2,066,133	3,618,523	0	5,684,656	1,920,886	1,076,797	3,528	8,685,867	9,493,561
1979	73,101	46,869	9,604	23,900	72,192	7,828	46,427	141,803	36,569	44,242	502,535	1,316,025	1,963,252	0	3,278,277	1,953,742	43,097	162	5,275,278	5,777,813
1980	55,999	31,477	5,204	34,421	65,844	5,824	2,251	105,870	29,028	39,496	375,414	2,317,775	3,439,745	0	5,757,520	1,749,057	1,004,208	0	8,510,785	8,886,199
1981	51,830	20,610	660	3,670	51,376	2,287	3,985	83,986	16,864	9,155	244,423	1,991,873	2,655,307	0	4,647,180	609,682	951,654	0	6,208,516	6,452,939
1982	72,524	197,762	59,168	13,477	125,942	47,889	118,907	2,733	19,897	45,080	703,379	1,646,158	3,459,392	0	5,105,550	1,216,137	3,253,765	9,942	9,585,394	10,288,773
1983	53,458	134,968	8,021	35,298	64,568	7,429	82,608	493	32,905	70,846	490,594	1,493,414	2,773,657	0	4,267,071	1,407,572	6,967,064	2,277	12,643,984	13,134,578
1984	269,046	127,753	1,797	17,895	74,948	1,968	50,296	3,193	16,495	22,400	585,791	2,558,708	3,604,281	0	6,162,989	1,396,583	2,360,205	8,340	9,928,117	10,513,908
1985	114,591	152,367	31,728	20,972	50,581	2,640	130,550	4,046	43,403 ^a	76,456	627,334	1,651,048	2,638,555	0	4,289,603	2,167,937 ^b	3,285,112	12,380	9,755,032	10,382,366
1986	31,279	137,488	36,603	11,522	34,354	1,890	61,460	9,381	23,869	76,649	424,495	2,043,085	4,108,323	1,452	6,152,860	3,018,610	3,541,433	47,377	12,760,280	13,184,775
1987	50,863	222,718	22,755	1,942	35,094	3,022	27,963	2,186	14,809	59,547	440,899	3,091,385	3,811,662	1,441	6,904,488	2,786,933	2,171,367	40,565	11,903,353	12,344,252

^aIncludes 926 lb of sharkfins
^bIncludes 867 lb of soft shell crabs

Table B. 4. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system during 1977-1987. Data based on MMPR and MFS.

Year	Finfish										Shellfish						Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap	Total	Shrimp		Blue crab	Eastern oyster		Other	Total	
									Brown and pink	White			Brown and pink	White						
1977	28,002	8,001	1,326	3,924	4,872	1,239	1,039	84,381	8,038	10,338	151,160	1,934,420	2,966,068	320	4,900,808	452,332	2,299,615	1,107	7,653,862	7,805,022
1978	48,796	43,424	1,075	6,676	10,514	791	238	212,370	14,780	5,792	344,456	778,260	4,977,027	0	5,755,287	521,289	1,222,871	987	7,500,434	7,844,890
1979	23,318	41,204	1,594	5,353	10,809	1,779	4,946	116,290	8,345	3,879	217,517	1,144,900	2,648,695	0	3,793,595	481,825	66,788	37	4,342,245	4,559,762
1980	30,080	28,679	997	8,770	15,128	1,003	474	109,937	9,499	5,039	209,606	2,076,228	4,831,461	0	6,907,089	493,068	1,643,511	0	9,044,268	9,253,874
1981	30,788	23,711	171	771	14,056	659	234	96,993	4,696	1,223	175,302	1,018,256	3,107,981	0	4,126,237	187,155	1,510,186	0	5,823,578	5,998,880
1982	27,294	199,896	10,070	2,870	27,011	10,597	12,609	757	5,863	5,038	302,005	1,442,651	5,829,651	0	7,272,302	401,467	4,781,388	3,898	12,459,055	12,761,060
1983	25,117	125,378	2,382	7,202	14,099	1,843	8,963	174	11,894	10,738	207,790	1,503,153	3,935,332	0	5,438,485	521,558	9,946,284	1,113	15,907,440	16,115,230
1984	106,901	133,969	493	3,858	15,456	496	5,485	1,138	5,958	5,392	279,146	2,061,455	4,032,756	0	6,094,211	541,815	4,015,279	3,725	10,655,030	10,934,176
1985	89,814	158,633	5,729	4,574	12,506	775	14,658	1,844	17,246 ^a	7,156	312,935	1,324,169	2,964,202	0	4,288,371	829,473 ^b	5,958,146	6,523	11,082,513	11,395,448
1986	14,818	142,003	8,371	3,538	9,155	738	7,462	4,693	6,410	9,303	206,491	1,869,437	4,969,360	944	6,839,741	1,028,348	6,952,098	24,697	14,849,884	15,056,375
1987	33,013	218,390	5,560	675	9,561	1,229	3,139	1,292	5,481	7,542	285,882	2,735,923	4,918,323	642	7,654,888	1,250,747	5,412,834	19,232	14,337,701	14,463,746

^aIncludes \$4,630 of sharkfins
^bIncludes \$637 of soft shell crabs

Table B. 5. Weight (lb) of each species landed commercially from the Matagorda Bay system during 1977-1987. Data based on MMRP and MIFS.

Year	Finfish											Shellfish					Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified			Shrimp ^a			Blue crab	Eastern oyster		Other	Total	
									Food	Scrap	Total	Brown and pink	White	Other						Total
1977	17,489	19,184	400	1,536	5,290	0	1,196	68,541	1,047	2,040	116,723	1,008,551	2,621,280	0	3,629,831	211,227	168,605	1,937	4,011,600	4,128,323
1978	16,503	19,322	0	3,265	2,257	0	564	39,891	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	10,150	6,593	0	867	2,997	0	270	33,972	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	11,364	3,077	0	0	2,540	0	0	43,546	131	0	60,658	2,059,240	1,538,837	0	3,598,077	390,743	333,179	0	4,321,999	4,382,657
1981	6,047	553	3	41	287	1	18,379	19,406	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
1982	1,541	8,510	0	13	661	3	1,335	3	67	0	12,133	1,757,008	2,113,842	0	3,870,830	689,000	270,376	74	4,830,310	4,842,443
1983	1,696	13,692	31	15	241	10	3,516	402	271	0	19,874	3,204,889	3,614,158	0	6,819,047	796,690	199,940	109	7,815,786	7,835,660
1984	608	15,886	18	135	749	102	19,375	1,045	2,464	26,529	66,911	2,851,107	2,890,693	150	5,741,950	927,467	448,637	6,860	7,124,914	7,191,825
1985	8,092	28,824	0	545	5,786	100	117,938	11	500	157,301	319,097	2,194,857	2,678,970	2,707	4,876,534	989,229	123,350	7,266	5,996,379	6,315,476
1986	8,775	28,671	0	453	1,556	92	50,064	113	3,854	3,744	97,322	2,552,763	3,765,573	0	6,318,336	1,196,418	382,767	51,067	7,948,588	8,045,910
1987	27,656	21,398	0	5	616	25	36,290	255	0	2,598	88,843	3,877,350	3,182,016	4,051	7,063,417	1,124,372	189,078	9,451	8,386,318	8,475,161

^aMIFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table B. 6. Ex-vessel value (\$) of each species landed commercially from the Matagorda Bay system during 1977-1987. Data based on MMRP and MIFS.

Year	Finfish											Shellfish					Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified			Shrimp ^a			Blue crab	Eastern oyster		Other	Total	
									Food	Scrap	Total	Brown and pink	White	Other						Total
1977	4,774	12,470	120	305	1,240	0	344	39,237	210	306	59,006	353,186	2,488,878	0	2,842,064	52,248	188,224	657	3,083,193	3,142,199
1978	5,160	13,987	0	795	643	0	139	26,892	12	0	47,628	301,006	3,269,862	0	3,570,868	81,465	182,319	247	3,834,899	3,882,527
1979	4,021	5,928	0	326	579	0	34	27,906	0	0	38,794	2,190,100	3,920,487	0	6,110,587	180,569	146,205	5	6,437,366	6,476,160
1980	5,603	3,213	0	0	542	0	0	41,342	33	0	50,733	1,663,153	2,622,548	0	4,285,701	105,058	495,533	0	4,886,292	4,937,025
1981	3,318	683	2	21	54	1	939	19,916	7	6	24,947	955,878	2,233,391	0	3,189,269	95,838	130,348	0	3,415,455	3,440,402
1982	1,214	9,459	0	8	432	1	282	2	44	0	11,442	1,471,573	4,017,106	0	5,488,679	209,954	389,590	0	6,088,243	6,099,695
1983	1,312	15,708	13	7	146	3	627	163	171	0	18,150	3,973,047	5,708,136	0	9,681,183	245,017	264,756	55	10,191,011	10,209,161
1984	411	20,304	9	72	298	43	1,760	736	181	1,896	25,710	1,933,896	3,852,312	260	5,786,468	302,472	732,038	2,495	6,823,473	6,849,183
1985	3,790	33,438	0	250	1,865	46	10,126	21	88	9,445	59,069	1,389,731	4,015,136	677	5,405,544	339,769	198,721	3,882	5,946,916	6,005,985
1986	6,628	34,206	0	211	674	36	4,832	115	232	225	47,159	2,432,679	6,228,565	0	8,661,244	371,892	597,175	21,965	9,652,276	9,699,435
1987	6,793	20,654	0	1	258	13	3,340	497	0	156	31,712	3,540,484	4,203,316	2,682	7,746,482	366,007	368,771	2,750	8,484,010	8,515,722

^aMIFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table B.7. Weight (lb) of each species landed commercially from the East Matagorda Bay system during 1977-1987. Data based on MMPR and NMFS.

Year	Finfish										Shellfish						Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Total	Shrimp ^a			Blue crab		Eastern oyster	Other	Total
									Food	Scrap	Total		White	Other	Total					
1977	9,339	3,497	30	0	2,938	0	0	40,991	0	14,025	70,820	0	0	0	0	309,699	1,317	0	311,016	381,836
1978	9,593	3,103	0	0	1,964	0	0	35,008	0	0	49,668	0	0	0	0	267,668	578	0	268,246	317,914
1979	7,531	791	0	209	1,202	0	0	21,489	0	0	31,222	0	0	0	0	196,073	25,040	0	222,113	253,335
1980	4,248	390	0	0	487	0	1	38,138	0	0	43,264	0	0	0	0	468,952	2,722	0	471,674	514,938
1981	1,387	269	9	28	50	6	0	10,228	0	0	11,977	0	0	0	0	83,497	27,504	0	111,001	122,978
1982	1,975	11,758	0	1,474	1,540	0	0	34	1,352	0	18,133	0	0	0	0	630,153	0	0	630,153	648,286
1983	453	6,849	1	3	264	0	0	319	3	0	7,892	0	0	0	0	637,942	17,569	0	655,511	663,403
1984	199	2,968	0	178	221	33	0	18	25	0	3,642	0	0	0	0	317,525	58,317	2,114	377,956	381,598
1985	0	44	0	0	0	0	0	0	0	0	44	0	0	0	0	157,482	2,468	0	159,950	159,994
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,000	0	0	3,000	3,000
1987	3,011	2,672	0	180	217	0	0	0	0	0	6,080	0	0	0	0	175	1,383	0	1,558	7,638

^aNMFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table B.8. Ex-vessel value (\$) of each species landed commercially from the East Matagorda Bay system during 1977-1987. Data based on MMPR and NMFS.

Year	Finfish										Shellfish						Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Total	Shrimp ^a			Blue crab		Eastern oyster	Other	Total
									Food	Scrap	Total		White	Other	Total					
1977	2,556	2,112	9	0	709	0	0	24,164	0	1,403	30,953	0	0	0	0	75,882	1,224	0	77,106	108,059
1978	2,759	2,276	0	0	550	0	0	22,530	0	0	28,115	0	0	0	0	66,482	792	0	67,274	95,389
1979	2,655	614	0	94	487	0	0	18,033	0	0	21,883	0	0	0	0	48,079	38,020	0	86,099	107,982
1980	1,770	392	0	0	206	0	0	35,545	0	0	37,913	0	0	0	0	123,063	3,861	0	126,924	164,837
1981	906	342	7	21	35	5	0	10,387	11	0	11,714	0	0	0	0	23,578	43,804	0	67,382	79,096
1982	1,454	10,815	0	1,105	1,088	0	0	22	1,351	0	15,835	0	0	0	0	189,697	0	0	189,697	205,532
1983	316	8,384	0	2	117	0	0	281	2	0	9,102	0	0	0	0	157,135	26,985	0	184,120	193,222
1984	142	3,188	0	80	99	15	0	14	13	0	3,551	0	0	0	0	73,935	96,489	519	170,943	174,494
1985	0	53	0	0	0	0	0	0	0	0	53	0	0	0	0	37,847	4,221	0	42,068	42,121
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	900	0	0	900	900
1987	2,599	4,031	0	27	54	0	0	0	0	0	6,671	0	0	0	70	2,294	0	2,364	9,035	9,035

^aNMFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table B.9. Weight (lb) of each species landed commercially from the San Antonio Bay system during 1977-1987. Data based on NMPR and NMFS.

Year	Finfish											Shellfish					Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Shrimp			Blue crab	Eastern oyster		Other	Total	
									Total	Brown and pink	White	Other	Total	Brown and pink						White
1977	39,889	15,012	0	6,829	6,523	0	188	133,412	154	0	202,007	231,089	1,428,055	0	1,659,144	2,181,587	438,391	50	4,279,172	4,481,179
1978	31,040	11,857	0	247	11,544	0	574	88,466	22	0	143,750	685,755	630,176	0	1,315,931	1,925,483	560,780	0	3,802,194	3,945,954
1979	8,679	5,083	0	243	5,903	0	0	63,914	680	0	84,502	738,899	952,150	0	1,691,049	2,681,111	600,745	0	4,972,905	5,057,407
1980	17,636	10,073	0	49	4,851	0	0	143,247	89	0	175,945	1,173,386	559,288	0	1,732,674	3,011,967	361,303	0	5,105,944	5,281,889
1981	9,887	11,426	0	28	2,939	0	30,381	67,021	0	0	121,682	736,031	587,894	0	1,323,925	3,211,057	142,641	0	4,677,623	4,799,305
1982	352	9,226	0	0	388	0	0	0	0	0	9,966	809,548	450,250	0	1,259,798	2,310,435	53,925	0	3,624,158	3,634,124
1983	6,694	6,070	0	641	3,177	0	215	0	0	0	16,797	1,094,207	385,703	0	1,479,910	2,546,789	635,624	70	4,662,393	4,679,190
1984	7,489	8,437	0	2,129	7,358	62	2,848	1,496	0	5,055	34,874	1,113,827	745,136	0	1,858,963	1,423,640	1,937,344	4,287	5,224,234	5,259,108
1985	7,934	14,298	0	2,253	9,576	452	615	735	317	0	36,180	1,205,250	680,398	0	1,885,648	2,987,746	1,500,343	47,290	6,421,027	6,457,207
1986	11,940	10,678	0	1,703	8,456	0	283	753	0	0	33,813	1,519,625	809,840	0	2,329,465	1,715,997	1,627,795	34,634	5,707,891	5,741,704
1987	16,273	25,384	0	854	3,995	0	109,407	693	0	0	156,606	1,830,240	940,009	0	2,770,249	4,775,613	93,137	3,479	7,642,478	7,799,084

Table B.10. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system during 1977-1987. Data based on NMPR and NMFS.

Year	Finfish											Shellfish					Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Shrimp			Blue crab	Eastern oyster		Other	Total	
									Total	Brown and pink	White	Other	Total	Brown and pink						White
1977	9,631	8,965	0	1,254	757	0	38	71,942	69	0	92,656	74,219	975,469	0	1,049,688	506,154	428,621	8	1,984,471	2,077,127
1978	9,021	9,331	0	43	1,595	0	83	63,048	3	0	83,124	221,890	613,291	0	834,981	504,868	661,881	0	2,001,730	2,084,854
1979	3,231	4,830	0	43	1,134	0	0	57,467	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	8,365	9,856	0	27	1,032	0	0	133,602	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	5,446	13,065	0	11	737	0	1,519	69,704	0	0	90,482	461,439	537,989	0	999,428	797,729	194,686	0	1,991,843	2,082,325
1982	193	10,192	0	0	65	0	0	0	0	0	10,450	663,891	687,225	0	1,351,116	653,507	63,737	0	2,068,360	2,078,810
1983	4,299	7,521	0	211	678	0	65	0	0	0	12,774	1,307,198	638,401	0	1,945,599	1,021,105	908,940	36	3,875,680	3,888,454
1984	5,754	11,047	0	788	2,464	28	886	1,021	0	303	22,291	881,545	1,017,071	0	1,898,616	376,917	2,917,685	1,816	5,195,034	5,217,325
1985	3,797	17,857	0	925	3,358	99	283	418	130	0	26,867	619,042	843,141	0	1,462,183	957,812	2,239,741	37,154	4,696,890	4,723,757
1986	7,278	11,268	0	466	2,556	0	141	437	0	0	22,146	1,333,412	1,243,939	0	2,577,351	570,355	2,774,008	20,149	5,941,863	5,964,009
1987	10,576	32,180	0	195	1,393	0	9,861	272	0	0	54,467	1,670,280	1,294,548	0	2,964,828	1,773,206	186,660	396	4,925,090	4,979,557

Table B.11. Weight (lb) of each species landed commercially from the Aransas Bay system during 1977-1987. Data based on WMPR and NMFS.

Year	Finfish											Shellfish					Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Shrimp			Eastern oyster	Blue crab		Total		
									Total	Brown and pink	White	Other	Total	Other					Total	
1977	123,441	68,100	3,135	16,391	37,993	0	2,048	386,837	740	23,643	662,328	473,954	1,781,140	0	2,255,094	2,244,568	65,573	0	4,565,235	5,227,563
1978	81,282	41,200	3,680	4,445	33,778	4	1,870	244,282	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	24,064	42,414	257	3,528	21,264	0	1,051	181,346	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	36,919	58,005	18	1,752	11,954	0	14,951	249,484	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	19,638	44,607	3	361	26,824	0	3,197	69,383	53	0	164,066	1,744,416	726,693	0	2,471,109	1,738,402	62,369	0	4,271,880	4,435,946
1982	36,491	119,852	258	542	59,483	0	8,851	0	0	0	225,477	1,916,457	841,457	0	2,757,914	2,150,379	51,509	125	4,959,927	5,185,404
1983	51,850	67,796	1,193	314	27,397	0	13,606	0	2,952	102	165,210	3,122,304	792,925	0	3,915,229	2,508,983	117,119	105	6,541,436	6,706,646
1984	16,790	75,233	0	102	5,510	0	0	0	0	0	97,635	2,789,635	1,747,920	0	4,537,555	2,129,660	359,952	2,400	7,029,567	7,127,202
1985	15,656	44,605	0	0	11,265	145	0	55	0	6,100	77,826	2,551,706	806,467	252	3,358,425	2,231,473	216,817	5,080	5,811,795	5,889,621
1986	47,641	90,467	0	2,325	15,980	517	33	38	28	732	157,904	2,365,073	1,591,075	0	3,956,148	936,042	97,126	6,938	4,996,254	5,154,158
1987	46,396	70,065	41	2,059	29,887	69	49,681	392	33	164	198,787	3,308,913	1,155,994	0	4,464,907	1,683,562	384,170	32,432	6,565,071	6,763,858

Table B.12. Ex-vessel value (\$) of each species landed commercially from the Aransas Bay system during 1977-1987. Data based on WMPR and NMFS.

Year	Finfish											Shellfish					Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Shrimp			Eastern oyster	Blue crab		Total		
									Total	Brown and pink	White	Other	Total	Other					Total	
1977	33,415	40,208	469	2,731	2,654	0	102	229,823	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	26,440	33,525	303	935	2,938	4	208	185,033	50	1	249,434	221,432	1,135,803	0	1,357,235	567,764	133,735	0	2,058,734	2,308,168
1979	9,094	34,294	44	885	2,720	0	105	163,013	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	17,804	43,227	4	308	1,573	0	770	251,724	340	20	315,770	862,589	1,207,650	0	2,070,239	766,161	22,934	0	2,859,334	3,175,104
1981	12,343	53,451	1	91	6,151	0	458	79,428	13	0	151,936	925,332	876,325	0	1,801,657	547,211	91,656	0	2,440,524	2,592,460
1982	23,801	111,574	58	133	16,555	0	876	0	0	0	152,997	1,422,764	1,496,129	0	2,918,893	615,757	72,485	65	3,607,200	3,760,197
1983	30,276	64,576	239	78	3,876	0	1,497	0	2,650	15	103,207	3,818,816	1,429,216	0	5,248,032	937,186	183,905	61	6,369,184	6,472,391
1984	10,165	57,928	0	28	1,232	0	0	0	0	0	69,353	2,143,511	2,407,353	0	4,550,864	608,702	540,829	4,200	5,704,595	5,773,948
1985	12,594	45,195	0	0	2,174	62	0	31	0	610	60,666	1,428,731	1,234,636	144	2,663,511	743,747	342,310	6,263	3,755,831	3,816,497
1986	33,193	85,687	0	406	3,618	158	3	23	21	223	123,405	2,212,768	2,862,735	0	5,075,503	341,570	158,266	3,490	5,578,829	5,702,234
1987	34,695	68,367	11	388	7,314	27	4,482	95	17	75	115,471	3,713,092	1,784,054	0	5,497,146	604,315	818,858	17,650	6,937,969	7,053,440

Table B. 13. Weight (lb) of each species landed commercially from the Corpus Christi Bay system during 1977-1987. Data based on MMPR and NMFS.

Year	Finfish										Shellfish					Grand total				
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap	Total	Shrimp				Blue crab	Eastern oyster	Other	Total
									Brown and pink	White			Other	Total						
1977	199,848	49,128	3,206	14,989	116,863	57	73	151,054	0	0	535,218	738,572	567,956	0	1,306,528	102,750	0	0	1,409,278	1,944,496
1978	400,845	44,879	1,900	4,998	126,860	0	0	251,294	889	0	831,665	910,075	521,680	0	1,431,755	9,307	0	0	1,441,062	2,272,727
1979	383,315	68,726	3,489	9,946	201,684	6	34,680	216,751	41,854	0	960,451	1,166,697	1,052,891	0	2,219,588	50,498	0	116	2,270,202	3,230,653
1980	198,629	26,813	5,028	8,630	251,267	156	69,790	296,804	0	4,719	861,836	1,469,014	400,763	0	1,869,777	17,448	0	0	1,887,225	2,749,061
1981	58,074	5,948	75	2,560	51,927	179	23,592	183,843	128	69	326,395	1,149,681	336,542	0	1,486,223	7,723	0	0	1,493,946	1,820,341
1982	58,262	36,632	829	153	43,574	0	8,568	703	0	0	148,721	708,245	400,062	0	1,108,307	141,558	0	0	1,249,865	1,398,586
1983	105,884	74,422	7,763	1,247	87,195	0	0	176	0	452	130,631	2,393,305	1,511,141	0	3,904,446	76,135	0	1,014	3,981,595	4,112,226
1984	64,620	32,236	0	599	31,185	0	1,515	24	572	10,720	178,478	1,404,056	274,707	0	1,678,763	132,786	0	78,237	1,889,786	2,068,264
1985	29,309	86,770	4,115	3,087	39,254	31	4,422	198	203	22,080	224,278	993,964	611,059	0	1,605,023	877,180	0	43,560	2,525,763	2,750,041
1986	58,969	120,588	2	1,525	20,443	0	358	110	0	341	214,508	1,309,794	764,332	0	2,074,126	267,118	403	18,302	2,359,949	2,574,457
1987	104,960	63,459	18,877	1,244	21,379	0	0	4,248	0	0	214,508	1,309,794	764,332	0	2,074,126	267,118	403	18,302	2,359,949	2,574,457

Table B. 14. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system during 1977-1987. Data based on MMPR and NMFS.

Year	Finfish										Shellfish					Grand total				
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap	Total	Shrimp				Blue crab	Eastern oyster	Other	Total
									Brown and pink	White			Other	Total						
1977	59,310	29,921	334	1,482	7,736	3	4	89,617	0	0	188,407	301,665	442,067	0	743,732	25,810	0	0	769,542	957,949
1978	153,766	35,304	314	809	11,979	0	0	177,562	118	0	379,852	395,436	692,600	0	1,088,036	2,136	0	0	1,090,172	1,470,024
1979	165,498	55,662	676	1,823	25,873	2	2,561	191,436	5,324	0	448,855	1,040,520	1,646,614	0	2,687,134	10,907	0	23	2,698,064	3,146,919
1980	108,901	21,887	376	1,071	29,996	18	5,031	300,842	0	420	468,542	1,199,080	592,844	0	1,791,924	7,821	0	0	1,799,745	2,268,287
1981	34,388	6,029	16	674	7,862	9	2,118	196,317	26	10	247,449	788,033	439,698	0	1,227,731	3,852	0	0	1,231,583	1,479,032
1982	39,154	35,722	385	43	10,643	0	729	422	0	0	87,098	620,284	696,440	0	1,360,646	43,922	0	0	1,360,646	1,447,744
1983	68,646	72,871	1,225	291	22,969	0	0	35	0	45	77,171	1,935,026	1,989,797	0	3,924,823	27,079	0	508	3,952,410	4,029,581
1984	39,853	30,914	0	179	5,987	0	170	23	139	1,156	117,859	1,016,137	366,652	0	1,382,789	44,890	0	59,735	1,487,414	1,605,273
1985	23,816	82,572	826	958	7,759	2	444	187	118	5,379	155,833	1,146,129	904,608	0	2,050,737	273,694	0	29,260	2,353,691	2,509,524
1986	36,613	108,602	1	256	4,762	0	45	57	0	136	134,708	1,710,234	1,193,496	0	2,903,730	101,897	1,449	8,311	3,015,387	3,150,095
1987	60,862	60,084	7,551	124	5,478	0	0	473	0	0	134,708	1,710,234	1,193,496	0	2,903,730	101,897	1,449	8,311	3,015,387	3,150,095

Table B.15. Weight (lb) of each species landed commercially from the upper Laguna Madre system during 1977-1987. Data based on MMRP and MFS.

Year	Finfish											Shellfish					Grand Total					
	Black drum	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap		Total	Brown and pink	Shrimp				Blue crab	Eastern oyster	Other	Total	
								White	Other	White	Other											
1977	519,296	5,205	104	23	41,537	0	495	320,747	32	0	887,439	0	0	0	0	0	126,811	0	0	126,811	1,014,250	
1978	558,383	4,166	253	2	24,681	0	2,337	203,146	0	0	792,968	0	0	0	0	0	159,517	0	0	159,517	952,485	
1979	562,558	3,362	655	65	31,619	0	0	222,193	0	0	820,452	0	0	0	0	0	26,911	0	0	26,911	847,363	
1980	512,366	8,559	2,079	409	46,722	0	0	446,515	0	0	1,016,650	0	0	0	0	0	6,688	0	0	6,688	1,023,338	
1981	343,717	5,031	931	93	35,306	4	2	266,387	0	0	651,471	0	0	0	0	0	0	0	0	0	651,471	
1982	778,749	21,881	16	0	60,695	0	0	296	0	0	861,637	0	0	0	0	0	8,913	0	0	8,913	870,550	
1983	1,021,586	50,078	6	0	80,860	0	0	739	0	0	1,153,269	0	0	0	0	0	12,290	0	0	12,290	1,165,559	
1984	373,819	28,287	0	1,049	43,586	0	0	520	0	0	447,261	0	0	0	0	0	19,727	0	0	19,727	466,988	
1985	284,762	17,998	0	296	36,410	0	0	1,802	0	0	341,268	171,060	1,266	0	0	0	92,515	0	0	400	265,241	606,509
1986	293,320	24,618	0	0	27,383	0	0	2,080	0	0	347,401	80,975	171	0	0	0	76,286	0	0	310	157,742	505,143
1987	335,407	10,847	55	622	5,152	0	0	15	0	0	352,098	240,689	644	0	0	0	179,427	0	0	165	420,925	773,023

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Table B.16. Ex-vessel value (\$) of each species landed commercially from the upper Laguna Madre system during 1977-1987. Data based on MMRP and MFS.

Year	Finfish											Shellfish					Grand Total					
	Black drum	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap		Total	Brown and pink	Shrimp				Blue crab	Eastern oyster	Other	Total	
								White	Other	White	Other											
1977	165,429	3,278	10	3	3,130	0	50	186,747	8	0	358,655	0	0	0	0	0	28,855	0	0	28,855	387,510	
1978	229,320	3,434	42	0	2,832	0	210	163,236	0	0	399,074	0	0	0	0	0	45,691	0	0	45,691	444,765	
1979	244,455	3,313	130	12	5,234	0	0	206,136	0	0	459,280	0	0	0	0	0	6,836	0	0	6,836	466,116	
1980	265,977	6,424	320	97	7,907	0	0	411,325	0	0	692,050	0	0	0	0	0	2,704	0	0	2,704	694,754	
1981	199,140	5,604	223	21	7,458	1	0	293,345	0	0	505,792	0	0	0	0	0	0	0	0	0	505,792	
1982	535,031	24,167	4	0	16,936	0	0	347	0	0	576,485	0	0	0	0	0	3,832	0	0	3,832	580,317	
1983	708,865	53,945	1	0	22,018	0	0	1,060	0	0	785,889	0	0	0	0	0	6,074	0	0	6,074	791,963	
1984	195,673	27,576	0	274	7,706	0	0	504	0	0	231,733	0	0	0	0	0	8,056	0	0	8,056	239,789	
1985	164,458	18,348	0	122	7,321	0	0	1,695	0	0	191,944	107,763	1,313	0	0	0	30,883	0	200	140,159	332,103	
1986	218,249	24,088	0	0	7,750	0	0	1,977	0	0	252,064	95,767	198	0	0	0	26,274	0	0	155	122,394	374,458
1987	282,557	9,908	16	162	1,677	0	0	16	0	0	294,336	350,840	1,318	0	0	0	74,900	0	58	427,116	721,452	

Table 8.17. Weight (lb) of each species landed commercially from the lower Laguna Madre system during 1977-1987. Data based on MMPR and NMFS.

Year	Finfish											Shellfish						Grand total		
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Shrimp			Brown and pink	Blue crab	Eastern oyster		Other	Total
									Total	Food	Scrap	White	Other	Total						
1977	378,258	35,255	17,121	147	27,603	0	0	878,924	836	22,071	1,360,215	0	0	0	0	975,244	9,066	0	984,310	2,344,525
1978	492,760	12,552	5,004	4,928	60,371	0	824	754,432	3,555	2,322	1,336,748	0	0	0	0	196,070	3,071	64	199,205	1,535,953
1979	434,749	32,867	2,356	190	45,826	0	0	706,426	2,731	170	1,225,315	0	0	0	0	122,279	1,963	0	124,242	1,349,557
1980	210,016	11,334	1,194	0	82,148	0	269	713,244	1,333	381	1,019,919	0	0	0	0	518,342	15,494	0	533,836	1,553,755
1981	157,654	10,855	526	3	24,770	3	5,700	523,375	1,651	346	724,880	0	0	0	0	815,087	0	0	815,087	1,539,967
1982	274,561	33,825	91	0	11,273	0	0	15	1,849	0	321,614	0	0	0	0	747,180	3,752	0	750,752	1,072,366
1983	238,784	44,935	2,473	0	8,089	109	126	4,180	5,922	379	304,997	0	0	0	0	479,092	3,433	0	482,525	787,522
1984	136,526	10,082	0	0	2,917	0	0	7	51	0	149,583	0	0	0	0	355,207	3,276	0	358,483	508,066
1985	171,176	22,383	0	0	2,567	2,316	0	149	3,419	0	202,010	0	0	0	0	258,041	5,847	2,840	266,728	468,738
1986	120,296	78,686	0	0	2,632	614	39	6,104	4,535	0	212,906	0	0	0	0	229,754	123	0	229,877	442,783
1987	177,004	60,677	0	0	1,919	287	0	685	0	0	240,572	0	0	0	0	206,519	4,081	1,792	212,392	452,964

Table 8.18. Ex-vessel value (\$) of each species landed commercially from the lower Laguna Madre system during 1977-1987. Data based on MMPR and NMFS.

Year	Finfish											Shellfish						Grand total		
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Shrimp			Brown and pink	Blue crab	Eastern oyster		Other	Total
									Total	Food	Scrap	White	Other	Total						
1977	84,443	16,294	1,056	30	2,138	0	0	421,397	93	5,518	530,969	0	0	0	0	239,526	8,957	0	248,483	779,452
1978	125,476	7,678	502	2,918	6,517	0	49	481,799	546	235	625,720	0	0	0	0	50,571	4,010	10	54,591	680,311
1979	141,050	27,732	269	38	4,958	0	0	566,319	413	15	737,794	0	0	0	0	30,801	2,235	0	33,036	770,830
1980	98,202	8,799	81	0	8,571	0	13	643,886	239	41	759,832	0	0	0	0	130,942	23,234	0	154,176	914,008
1981	86,390	11,614	94	1	3,882	1	570	600,430	290	58	703,330	0	0	0	0	234,290	0	0	234,290	937,620
1982	145,360	37,163	27	0	2,013	0	0	27	309	0	184,899	0	0	0	0	212,255	6,531	0	218,786	403,685
1983	126,297	45,586	346	0	1,111	35	57	1,295	1,820	51	176,598	0	0	0	0	183,548	5,796	0	189,344	365,942
1984	80,984	10,314	0	0	605	0	0	12	26	0	91,941	0	0	0	0	102,235	6415	0	108,650	200,591
1985	122,416	24,370	0	0	670	579	0	284	2,679	0	150,998	0	0	0	0	86,400	11,732	4,080	102,212	253,210
1986	85,443	77,734	0	0	684	279	10	7,046	4,105	0	175,301	0	0	0	0	68,675	231	0	68,906	244,207
1987	100,988	59,358	0	0	606	95	0	343	0	0	161,390	0	0	0	0	53,316	8,446	2,165	63,927	225,317

Appendix C. Weight (lb) and ex-vessel value (\$) of commercial finfish and shellfish, except shrimp, landings from the Gulf of Mexico grid zones during 1977-1987.

Table C.1. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish			Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other
1977	5,810	2,888	386	50	1,615	4,805	0	200	629	36,211	3,864	0	0	56,458	0	0	56,458
1978	20,455	2,539	0	112	143	2,128	0	0	0	1,546	779	461	0	28,163	1,268	13	1,281
1979	114	1,176	0	77	587	418	0	0	0	3,222	3,277	0	0	8,871	100	0	100
1980	113	3,619	352	0	471	3,668	0	0	582	825	312	71	276	10,289	3,149	0	3,149
1981	71	2,816	29	562	532	1,250	619	0	4	235	129	0	142	7,653	2,555	114	2,669
1982	62	4,010	35	31	1,450	1,923	0	0	0	0	0	0	860	12,426	5,355	150	5,505
1983	247	3,715	8	23	474	1,082	0	0	199	6,102	0	0	480	11,857	962	200	1,162
1984	307	4,112	33	0	171	453	0	0	14,515	17,193	3,738	1,021	425	49,007	2,211	71	2,282
1985	20	9,021	0	52	194	2,828	0	0	337	26,573	107,410	21,065	276	178,851	29,910	5,467	35,377
1986	1,735	15,135	0	832	2,721	1,897	0	337	26,573	107,410	21,065	276	870	189,429	19,365	4,720	24,085
1987	49,541	30,645	1,004	3,868	12,525	12,934	0	766	5,203	63,336	8,078	0	1,529	189,429	19,365	4,720	24,085

Table C.2. Ex-vessel value (\$) of each species, except shrimp, landed commercially in Gulf of Mexico grid zone 17.0 during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish			Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other
1977	1,558	1,529	93	10	331	966	0	50	159	32,954	2,030	0	0	39,680	0	0	39,680
1978	4,091	1,222	0	20	17	346	0	0	0	1,725	357	108	0	7,886	159	3	162
1979	23	622	0	15	139	66	0	0	0	4,280	3,943	0	0	9,088	30	0	30
1980	16	2,242	36	0	53	463	0	0	262	1,170	197	18	42	4,499	694	0	694
1981	17	1,562	7	112	142	150	71	0	1	458	90	0	123	2,733	1,520	0	1,520
1982	21	2,236	9	8	302	315	0	0	0	0	0	0	26	2,917	742	46	788
1983	70	2,224	3	6	106	181	0	0	0	9,062	0	70	120	11,842	2,545	60	2,605
1984	94	3,316	8	0	38	91	0	0	328	11,051	0	0	72	14,998	333	140	473
1985	5	7,180	0	14	49	1,154	0	0	21,108	33,148	2,646	348	63	65,715	888	28	916
1986	1,160	12,129	0	284	861	540	0	234	36,454	209,633	15,037	187	183	276,702	15,376	3,136	18,512
1987	36,173	26,222	479	860	4,003	3,800	0	669	7,907	118,731	6,236	0	231	205,311	7,886	2,091	9,977

Table C.3. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish			Grand total				
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other	Total
1977	28,861	55,084	2,266	10,128	24,444	20,513	535	13,865	8,158	97,198	141,503	53,797	38,864	495,216	11,038	7,813	18,851	514,067
1978	4,955	32,429	5,390	1,634	8,924	16,089	1,340	10,124	17,470	100,449	45,442	18,781	35,905	298,932	502	11,164	11,666	310,598
1979	14,324	20,653	3,742	331	17,147	6,038	2,753	5,629	7,020	62,133	90,923	25,831	62,236	318,760	417	577	994	319,754
1980	7,181	35,081	13	434	4,856	9,424	1,076	1,700	13,957	58,750	44,102	10,763	8,546	195,883	485	0	485	196,368
1981	4,900	16,644	0	2,081	6,657	10,178	9,881	8,289	4,796	20,996	8,271	1,067	4,167	97,927	519	0	519	98,446
1982	4,683	56,556	0	1,373	15,794	19,301	3,204	15,532	10,477	97,911	346	12,312	0	237,489	48	1,340	1,431	238,920
1983	2,137	37,650	160	4,565	2,264	8,738	19,922	6,997	6,876	97,665	31	621	0	187,626	26,709	1,288	27,997	215,623
1984	3,048	32,968	1,198	2,757	7,403	9,518	9,350	5,542	5,822	50,802	3,537	0	0	131,945	26,378	13,380	39,758	171,703
1985	5,452	27,510	1,665	12,005	8,062	12,214	39,653	1,097	14,389	104,567	33,104	2,601	3,839	266,158	21,566	7,031	28,597	294,755
1986	2,132	19,608	2,207	4,044	7,013	9,214	3,621	6,260	30,075	314,680	120,104	2,052	1,489	522,499	40,587	3,656	44,243	566,742
1987	2,269	6,296	4,285	4,306	8,200	3,864	710	1,964	172,058	294,123	217,508	19,929	3,905	739,417	2,816	6,989	9,805	749,222

Table C.4. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish			Grand total				
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other	Total
1977	6,144	28,295	515	1,727	4,441	3,021	120	3,485	1,909	85,618	79,622	10,640	4,464	230,001	2,199	2,222	4,421	234,422
1978	1,097	18,078	1,060	380	1,412	2,121	536	3,380	4,370	94,228	30,042	4,720	3,639	165,063	92	3,190	3,282	168,345
1979	5,222	13,949	626	79	3,083	897	444	2,362	2,840	74,384	80,184	7,984	7,474	199,528	146	179	325	199,853
1980	1,630	24,689	3	129	1,057	1,752	163	880	5,507	78,035	47,018	4,373	615	165,851	118	0	118	165,969
1981	1,044	11,550	0	1,976	1,325	2,364	1,252	4,357	2,537	27,916	10,153	280	221	64,975	208	0	208	65,183
1982	1,906	48,195	0	475	4,290	4,115	486	9,065	5,369	168,969	70	3,152	0	246,092	48	558	606	246,698
1983	886	23,660	56	1,202	619	2,182	3,225	4,928	4,178	144,159	45	193	0	185,333	7,191	502	7,693	193,026
1984	1,100	22,020	539	983	1,700	2,480	1,183	3,384	4,281	85,623	4,355	0	0	127,648	6,618	4,773	11,391	139,039
1985	3,281	24,838	353	3,726	1,892	4,099	5,387	643	10,606	183,405	36,460	404	452	275,546	5,851	3,678	9,529	285,075
1986	1,144	15,165	676	1,344	2,043	2,894	572	4,175	38,890	567,373	189,551	673	342	824,842	12,808	1,711	14,519	839,361
1987	694	6,036	1,459	886	2,704	1,184	113	1,535	231,745	560,639	464,233	5,003	762	1,276,993	938	2,793	3,731	1,280,724

Table C.5. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish			Grand total				
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other	Total
1977	10,039	33,124	0	3,142	1,953	1,050	239	4,142	3,538	57,780	14,341	1,860	4,164	135,372	137	532	669	136,041
1978	4,464	6,646	59	211	663	1,101	577	3,236	10,972	69,671	4,878	657	237	103,372	0	50	50	103,422
1979	8,555	1,208	0	29	1,969	2,174	26,066	2,045	2,698	41,243	50,360	3,392	0	139,739	0	0	0	139,739
1980	591	2,265	2,358	0	1,700	187	3,330	540	5,214	70,449	13,650	986	10	101,280	0	0	0	101,280
1981	1,356	609	0	0	102	2,049	0	5,414	10,848	49,586	11,803	0	0	81,767	0	0	0	81,767
1982	470	19,412	0	0	848	2,879	0	8,578	29,583	153,504	3,289	2,889	0	221,452	0	0	0	221,452
1983	3,042	25,312	764	246	691	1,411	72	10,200	22,320	81,760	5	17,641	701	164,165	2,611	2,128	4,739	168,904
1984	1,204	24,865	0	1,687	403	3,029	420	6,374	13,258	134,083	54,133	7,396	2,086	248,938	0	4,151	4,151	253,089
1985	2,544	17,593	0	232	772	2,339	0	2,861	117,476	116,553	94,337	62,537	3,224	420,468	7,216	4,725	11,941	432,409
1986	893	4,375	0	40	118	534	0	1,263	40,971	80,065	121,517	356	230	250,362	6,000	2,816	8,816	259,178
1987	1,297	24,006	0	0	43	6,536	0	4,561	14,571	44,747	26,621	683	3,664	126,129	14,409	1,767	16,176	142,305

Table C.6. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1977-1987. Data based on MPR.

Year	Finfish										Shellfish			Grand total				
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other	Total
1977	1,952	16,543	0	2,546	341	109	27	982	1,072	39,627	8,044	361	416	72,020	29	113	142	72,162
1978	1,021	3,451	6	47	34	165	76	920	2,174	63,698	3,496	169	12	75,269	0	13	13	75,282
1979	2,992	658	0	5	289	227	2,002	461	745	43,733	38,959	677	0	90,748	0	0	0	90,748
1980	382	1,998	167	0	243	47	500	259	2,418	114,454	12,137	737	2	133,344	0	0	0	133,344
1981	285	563	0	0	34	410	0	2,929	5,181	74,471	15,116	0	0	98,989	0	0	0	98,989
1982	94	18,460	0	0	186	550	0	4,019	17,094	271,642	3,125	1,903	0	317,073	0	0	0	317,073
1983	1,654	18,957	115	86	90	379	18	5,268	22,795	119,931	9	5,599	42	174,943	639	1,009	1,648	176,591
1984	663	17,435	0	914	96	488	188	4,835	11,954	242,157	16,130	5,296	132	300,288	0	2,854	2,854	303,142
1985	894	13,458	0	151	61	601	0	1,675	105,342	220,538	114,423	14,941	901	472,985	1,798	4,071	5,869	478,854
1986	425	3,718	0	12	41	206	0	808	34,532	137,595	221,297	99	25	398,758	2,050	770	2,820	401,578
1987	708	21,504	0	0	12	2,106	0	2,873	15,593	67,451	17,855	103	550	128,755	3,606	512	4,118	132,873

Table C.7. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1977-1987. Data based on MMPR.

Year	Finfish											Shellfish			Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap	Total		Blue crab	Other	Total
1977	116	298	0	0	0	0	100	0	0	0	337	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
1979	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
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1,136	403	0	0	616	0	0	0	0	0	0	0	0	2,155	0	0	0	2,155
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	4,603	13,843	0	262	2,577	1,591	0	745	5,680	76,541	3,073	0	0	108,915	0	1,450	1,450	110,365
1985	1,510	7,738	277	815	16,764	2,282	3,000	2,091	77,469	157,944	40,356	53	5	310,304	0	3,409	3,409	313,713
1986	7,818	21,322	0	3,338	7,817	253	0	3,305	89,844	218,273	169,507	71	0	521,548	0	2,206	2,206	523,754
1987	24,882	6,378	0	2,974	7,611	2,059	0	849	41,108	160,789	46,404	16	0	293,070	320	1,999	2,319	295,389

Table C.8. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1977-1987. Data based on MMPR.

Year	Finfish											Shellfish			Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap	Total		Blue crab	Other	Total
1977	35	149	0	0	0	0	5	0	0	0	173	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
1979	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
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	682	383	0	0	0	0	0	0	0	1,170	0	0	0	2,235	0	0	0	2,235
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1,367	10,451	0	69	516	268	0	500	4,959	143,496	2,644	0	0	164,270	0	1,352	1,352	165,622
1985	1,315	5,879	56	293	2,762	273	300	1,642	55,950	314,561	43,012	53	1	426,097	0	1,507	1,507	427,604
1986	5,001	18,368	0	1,034	2,524	91	0	2,350	71,021	438,102	116,944	52	0	655,487	0	963	963	656,450
1987	10,320	5,448	0	744	2,514	741	0	766	44,745	329,892	38,443	14	0	433,627	80	734	814	434,441

Table C.9. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1977-1987. Data based on MMPR.

Year	Finfish										Shellfish			Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other
1977	17,966	9,091	163	36	5,909	412	0	1,775	9,673	248,811	3,245	16,379	0	313,460	0	179	179 313,639
1978	3,326	2,856	4,721	25,144	1,129	438	26,351	339	11,467	216,627	393	7,470	0	300,261	0	0	0 300,261
1979	3,659	2,651	0	0	2,935	170	0	0	4,582	108,134	1,205	1,766	341	125,443	0	0	0 125,443
1980	3,357	4,134	0	0	64	33	0	0	3,335	101,584	556	279	0	113,342	0	0	0 113,342
1981	7,972	8,590	2,350	0	1,894	26	0	0	14,194	94,833	17,519	33,359	0	180,737	0	0	0 180,737
1982	18,158	16,070	338	38	722	1,069	0	0	24,708	117,550	0	51,941	535	231,129	0	1,895	1,895 233,024
1983	6,563	8,339	170	1,002	237	229	418	9	5,531	76,920	6	28,852	0	128,276	460	1,652	2,112 130,388
1984	21,717	3,240	0	115	627	294	0	41	8,130	184,674	18,260	21,754	0	258,852	0	1,765	1,765 260,617
1985	2,408	12,070	0	5,179	332	884	0	0	26,276	267,274	44,165	814	0	359,402	0	2,995	2,995 362,397
1986	3,007	6,617	331	4,089	900	2,989	207	153	36,698	197,243	69,878	1,020	0	323,132	6,356	703	7,059 330,191
1987	18,440	2,228	0	0	3,937	4,177	0	0	112,196	138,835	54,820	0	0	334,639	393	802	1,195 335,834

Table C.10. Ex-vessel (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1977-1987. Data based on MMPR.

Year	Finfish										Shellfish			Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap		Total	Blue crab	Other
1977	2,270	2,647	24	7	430	59	0	197	2,014	262,676	1,054	1,753	0	273,131	0	37	37 273,168
1978	596	1,262	472	12,227	169	43	1,917	119	3,217	243,850	487	829	0	265,188	0	0	0 265,188
1979	549	1,245	0	0	294	9	0	0	3,111	139,154	2,049	690	34	147,135	0	0	0 147,135
1980	1,018	2,260	0	0	10	15	0	0	1,549	157,616	454	42	0	162,964	0	0	0 162,964
1981	3,207	6,911	470	8	189	5	0	0	6,471	164,486	24,585	6,929	0	213,253	0	0	0 213,253
1982	6,289	13,173	54	8	143	117	0	0	20,257	227,404	0	12,543	72	280,060	0	390	390 280,450
1983	3,039	6,377	32	601	39	58	60	9	4,869	110,355	10	6,547	0	131,996	245	410	655 132,651
1984	6,112	2,421	0	35	103	29	0	29	5,939	335,990	9,285	6,208	0	366,151	0	522	522 366,673
1985	693	11,411	0	3,624	53	343	0	0	19,723	490,793	18,327	2,829	0	547,796	0	622	622 548,418
1986	1,135	5,355	83	2,870	142	1,444	315	134	35,537	358,484	51,685	984	0	458,168	2,161	247	2,408 460,576
1987	17,836	2,122	0	0	1,269	2,316	0	0	152,767	236,790	60,417	0	0	473,517	134	661	795 474,312

Appendix D. Monthly commercial finfish and shellfish landings (lb) and ex-vessel value (\$) from Texas bay systems during 1987.

Table D.1. Weight (lb) of each species landed commercially from the Sabine Lake system during 1987. Data based on MPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	200	300	100	400	296	0	0	0	0	1,296
Black drum	0	0	0	0	0	0	0	0	0	153	0	0	153
Flounder, unclassified	43	0	20	75	17	97	15	60	75	887	808	180	2,277
Gafftopsail catfish	0	0	0	0	0	0	55	600	0	0	0	0	655
Kingfish, unclassified	0	0	31	55	125	45	75	0	0	50	0	40	421
Seatrout, sand	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	588	0	709	161	8	7	108	0	0	100	0	668	2,349
Unclassified food	0	0	0	0	100	100	0	0	0	0	0	0	200
Unclassified scrap	0	0	125	150	0	0	150	0	0	0	0	0	425
Total finfish	631	0	885	641	550	349	803	956	75	1,190	808	888	7,776
SHELLFISH													
Shrimp (heads on)													
Brown and pink	0	0	0	0	0	0	0	203	0	0	0	0	203
White	0	0	0	0	1,065	102	0	3,614	39,400	48,810	79,757	442	173,190
Total Shrimp	0	0	0	0	1,065	102	0	3,817	39,400	48,810	79,757	442	173,393
Blue crab	15,938	1,171	9,466	43,370	136,426	203,228	189,185	5,111	7,569	8,502	5,482	1,201	626,649
Stone crab	0	0	0	0	0	0	0	0	0	130	0	0	130
Total shellfish	15,938	1,171	9,466	43,370	137,491	203,330	189,185	8,928	46,969	57,442	85,239	1,643	800,172
Grand Total	16,569	1,171	10,351	44,011	138,041	203,679	189,988	9,884	47,044	58,632	86,047	2,531	807,948

Table D.2. Ex-vessel value (\$) of each species landed commercially from the Sabine Lake system during 1987. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	200	300	100	400	30	0	0	0	0	1,030
Black drum	0	0	0	0	0	0	0	0	0	61	0	0	61
Flounder, unclassified	41	0	16	70	14	94	12	60	75	1,071	646	174	2,273
Gafftopsail catfish	0	0	0	0	0	0	32	510	0	0	0	0	542
Kingfish, unclassified	0	0	8	14	52	11	19	0	0	35	0	10	149
Sheepshead	235	0	307	71	2	2	37	0	0	40	0	298	992
Unclassified food	0	0	0	0	15	15	0	0	0	0	0	0	30
Unclassified scrap	0	0	19	23	0	0	23	0	0	0	0	0	65
Total finfish	276	0	350	378	383	222	523	600	75	1,207	646	482	5,142
SHELLFISH													
Shrimp (heads on)													
Brown and pink	0	0	0	0	0	0	0	374	0	0	0	0	374
White	0	0	0	0	2,343	61	0	2,849	30,732	46,370	68,591	261	151,207
Total Shrimp	0	0	0	0	2,343	61	0	3,223	30,732	46,370	68,591	261	151,581
Blue crab	7,155	468	4,633	17,820	48,750	67,321	79,117	1,883	3,073	3,484	2,346	544	236,594
Stone crab	0	0	0	0	0	0	0	0	0	59	0	0	59
Total shellfish	7,155	468	4,633	17,820	51,093	67,382	79,117	5,106	33,805	49,913	70,937	805	388,234
Grand Total	7,431	468	4,983	18,198	51,476	67,604	79,640	5,706	33,880	51,120	71,583	1,287	393,376

Table D.3. Weight (lb) of each species landed commercially from the Galveston Bay system during 1987. Data based on MMPR and MMS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	250	0	0	100	0	0	0	0	394	129	307	1,180
Atlantic croaker	0	3	10	318	386	2,261	1,061	3,617	5,940	7,033	2,079	47	22,755
Black drum	5,318	4,007	2,382	1,874	4,140	4,151	1,148	7,087	7,435	6,911	4,232	2,178	50,863
Flounder, unclassified	2,559	2,487	2,908	2,732	3,284	5,768	3,843	6,809	12,008	61,378	90,630	28,312	222,718
Gafftopsail catfish	0	9	195	297	548	132	313	98	12	12	326	0	1,942
Kingfish, unclassified	82	182	319	269	999	224	218	125	202	131	221	10	2,982
Mullet, unclassified	455	10	7,802	10,278	157	380	533	205	645	1,847	1,607	4,044	27,963
Seatrout, sand	27	95	26	16	69	18	16	33	109	302	37	9	757
Shark, unclassified	0	0	0	0	0	216	0	0	0	08	0	0	224
Sheepshead	2,617	7,628	3,864	3,045	1,944	1,953	713	2,251	2,073	3,433	3,670	1,903	35,094
Southern kingfish	0	0	0	40	0	0	0	0	0	0	0	0	40
Stingray, unclassified	0	0	0	0	0	0	0	0	0	25	0	0	25
Unclassified food	0	0	0	0	134	413	513	3,485	8,705	219	1,333	7	14,809
Unclassified scrap	0	9	409	693	789	1,225	8,557	13,878	23,678	4,163	6,127	19	59,547
Total finfish	11,058	14,680	17,915	19,562	12,550	16,741	16,915	37,588	60,807	85,856	110,391	36,836	440,899
SHELLFISH													
Shrimp (heads on)													
Brown and pink	12,523	2,389	118	37,679	724,700	1,726,866	484,651	17,388	65,548	18,071	1,439	13	3,091,385
White	2,157	222	4,418	1,744	65,478	69,260	207,263	1,384,396	1,015,159	693,599	301,524	66,442	3,811,662
Other	190	271	439	0	212	0	0	0	329	0	0	0	1,441
Total Shrimp	14,870	2,882	4,975	39,423	790,390	1,796,126	691,914	1,401,784	1,081,036	711,670	302,963	66,455	6,904,488
Blue crab	16,169	27,333	19,185	46,184	155,890	346,917	333,095	553,837	525,823	336,981	242,429	183,090	2,786,933
Oyster, Eastern	438	201,046	283,386	294,112	64,473	213,029	605,397	7,893	59,396	32,568	27,878	381,751	2,171,367
Squid, unclassified	36	81	5,114	1,562	7,909	2,240	1,056	2,565	2,908	2,137	2,084	1,983	29,675
Stone crab	0	108	687	1,022	636	2,004	2,189	2,038	744	601	640	221	10,890
Total shellfish	31,075	231,450	313,347	382,303	1,019,298	2,360,316	1,633,651	1,968,117	1,669,907	1,083,957	575,994	633,500	11,903,353
Grand Total	42,571	246,130	331,262	401,865	1,031,848	2,377,057	1,650,566	2,005,705	1,730,714	1,169,813	686,385	670,336	12,344,252

Table D.4. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system during 1987. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	250	0	0	25	0	0	0	0	335	112	261	983
Atlantic croaker	0	1	3	80	68	603	244	881	1,491	1,732	440	17	5,560
Black drum	3,715	1,928	1,180	978	2,807	1,337	762	3,482	7,176	5,243	2,879	1,526	33,013
Flounder, unclassified	2,459	2,505	2,854	2,878	3,182	5,622	3,864	6,676	13,122	64,110	85,669	25,449	218,390
Gafftopsail catfish	0	4	65	90	66	33	106	17	5	12	277	0	675
Kingfish, unclassified	37	63	203	153	357	71	75	48	58	52	93	3	1,213
Mullet, unclassified	69	3	788	1,042	37	74	147	69	131	197	163	419	3,139
Seatout, sand	9	27	6	4	37	5	4	9	40	129	9	2	281
Shark, unclassified	0	0	0	0	0	22	0	0	0	3	0	0	25
Sheepshead	691	1,881	1,057	868	535	526	184	607	687	968	1,005	552	9,561
Southern Kingfish	0	0	0	16	0	0	0	0	0	0	0	0	16
Stingray, unclassified	0	0	0	0	0	0	0	0	0	3	0	0	3
Unclassified food	0	0	0	0	33	83	129	1,283	3,626	55	270	2	5,481
Unclassified scrap	0	4	184	69	355	551	1,180	1,536	2,660	628	366	9	7,542
Total finfish	6,980	6,666	6,340	6,178	7,502	8,927	6,695	14,608	28,996	73,467	91,283	28,240	285,882
SHELLFISH													
Shrimp (heads on)													
Brown and pink	12,773	3,392	313	40,812	253,645	1,660,703	579,719	27,399	108,219	44,920	3,996	32	2,735,923
White	3,236	98	4,909	4,170	148,381	159,885	221,919	1,751,194	1,272,715	914,444	382,376	54,996	4,918,323
Other	30	68	285	0	127	0	0	0	132	0	0	0	642
Total Shrimp	16,039	3,558	5,507	44,982	402,153	1,820,588	801,638	1,778,593	1,381,066	959,364	386,372	55,028	7,654,888
Blue crab	5,923	10,071	7,920	17,965	61,152	131,717	137,094	244,705	224,056	199,706	128,182	82,256	1,250,747
Oyster, Eastern	900	485,088	671,696	729,141	155,433	542,724	1,392,400	22,536	152,703	75,843	125,847	1,058,523	5,412,834
Squid, unclassified	11	53	2,583	591	3,483	1,345	612	1,091	1,513	1,225	1,057	764	14,328
Stone crab	0	66	325	424	270	604	818	1,007	251	491	554	94	4,904
Total shellfish	22,873	498,836	688,031	793,103	622,491	2,496,978	2,332,562	2,047,932	1,759,589	1,236,629	642,012	1,196,665	14,337,701
Grand Total	29,853	505,502	694,371	799,281	629,993	2,505,905	2,339,257	2,062,540	1,788,585	1,359,083	733,295	1,224,905	14,463,746

Table D.5. Weight (lb) of each species landed commercially from the Matagorda Bay system during 1987. Data based on MPR and MFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	43	212	0	0	0	0	255
Black drum	0	0	17	34	166	1,157	18,208	7,215	313	358	124	64	27,656
Flounder, unclassified	43	90	246	135	189	301	754	452	598	2,508	7,112	8,970	21,398
Gafftopsail catfish	0	0	0	0	0	5	0	0	0	0	0	0	5
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	0	25	0	25
Mullet, unclassified	36,110	0	0	0	0	0	0	0	0	180	0	0	36,290
Sheepshead	22	0	0	0	0	402	23	0	31	65	61	12	616
Unclassified scrap	2,598	0	0	0	0	0	0	0	0	0	0	0	2,598
Total finfish	38,773	90	263	169	355	1,865	19,028	7,879	942	3,111	7,322	9,046	88,843
SHELLFISH													
Shrimp (heads on)													
Brown and pink	753	3,581	47,085	155,574	1,175,021	1,669,886	627,348	1,452	2,046	0	175,712	18,892	3,877,350
White	11,162	0	0	2,506	22,529	2,987	12,233	1,267,626	1,020,490	649,051	189,750	3,682	3,182,016
Other	0	1,839	0	0	0	0	0	0	0	0	2,212	0	4,051
Total Shrimp	11,915	5,420	47,085	158,080	1,197,550	1,672,873	639,581	1,269,078	1,022,536	649,051	367,674	22,574	7,063,417
Blue crab	32,950	57,938	42,504	77,803	140,922	174,631	132,167	115,128	92,221	98,629	83,801	75,678	1,124,372
Oyster, Eastern	0	19,918	90,617	34,301	0	0	0	0	0	0	0	44,242	189,078
Squid, unclassified	0	0	0	1,254	6,028	7	0	0	0	0	0	105	7,394
Stone crab	225	288	408	344	492	300	0	0	0	0	0	0	2,057
Total shellfish	45,090	83,564	180,614	271,782	1,344,992	1,847,811	771,748	1,384,206	1,114,757	747,680	451,475	142,599	8,386,318
Grand Total	83,863	83,654	180,877	271,951	1,345,347	1,849,676	790,776	1,392,085	1,115,699	750,791	458,797	151,645	8,475,161

MMFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table D. 6. Ex-vessel value (\$) of each species landed commercially from the Matagorda Bay system during 1987. Data based on MPR and NHFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	20	477	0	0	0	0	497
Black drum	0	0	17	34	125	868	3,642	1,443	266	251	99	48	6,793
Flounder, unclassified	58	115	420	170	285	411	1,141	637	821	2,727	7,189	6,680	20,654
Gafftopsail catfish	0	0	0	0	0	1	0	0	0	0	0	0	1
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	0	13	0	13
Mullet, unclassified	3,250	0	0	0	0	0	0	0	0	90	0	0	3,340
Sheepshead	10	0	0	0	0	137	14	0	12	42	37	6	258
Unclassified scrap	156	0	0	0	0	0	0	0	0	0	0	0	156
Total finfish	3,474	115	437	204	410	1,417	4,817	2,557	1,099	3,110	7,338	6,734	31,712
SHELLFISH													
Shrimp (heads on) ^a													
Brown and pink	2,011	5,979	73,926	280,073	1,032,028	1,243,945	651,021	1,612	6,547	0	217,883	25,459	3,540,484
White	10,269	0	0	8,322	66,686	8,298	7,044	1,569,013	1,475,003	883,211	169,435	6,035	4,203,316
Other	0	2,041	0	0	0	0	0	0	0	0	641	0	2,682
Total Shrimp	12,280	8,020	73,926	288,395	1,098,714	1,252,243	658,065	1,570,625	1,481,550	883,211	387,959	31,494	7,746,482
Blue crab	11,665	19,459	19,221	35,141	37,519	53,126	41,430	34,763	27,917	29,705	31,844	24,217	366,007
Oyster, Eastern	0	38,153	161,994	62,400	0	0	0	0	0	0	0	106,224	368,771
Squid, unclassified	0	0	0	428	1,724	2	0	0	0	0	0	21	2,175
Stone crab	99	72	102	86	123	93	0	0	0	0	0	0	575
Total shellfish	24,044	65,704	255,243	386,450	1,138,080	1,305,464	699,495	1,605,388	1,509,467	912,916	419,803	161,956	8,484,010
Grand Total	27,518	65,819	255,680	386,654	1,138,490	1,306,881	704,312	1,607,945	1,510,566	916,026	427,141	168,690	8,515,722

^aNHFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table D.7. Weight (lb) of each species landed commercially from the East Matagorda Bay system during 1987. Data based on MMRP and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	0	0	0	0	0	3,011	0	0	0	0	0	0	3,011
Flounder, unclassified	0	0	0	0	0	2,581	0	91	0	0	0	0	2,672
Gafftopsail catfish	0	0	0	0	0	180	0	0	0	0	0	0	180
Sheepshead	0	0	0	0	0	217	0	0	0	0	0	0	217
Total finfish	0	0	0	0	0	5,989	0	91	0	0	0	0	6,080
SHELLFISH^a													
Blue crab	0	0	0	0	0	79	0	96	0	0	0	0	175
Oyster, Eastern	0	0	0	1,383	0	0	0	0	0	0	0	0	1,383
Total shellfish	0	0	0	1,383	0	79	0	96	0	0	0	0	1,558
Grand Total	0	0	0	1,383	0	6,068	0	187	0	0	0	0	7,638

^aNMFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table D.8. Ex-vessel value (\$) of each species landed commercially from the East Matagorda Bay system during 1987. Data based on MPR and MFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	0	0	0	0	0	2,559	0	0	0	0	0	0	2,559
Flounder, unclassified	0	0	0	0	0	3,872	0	159	0	0	0	0	4,031
Gafftopsail catfish	0	0	0	0	0	27	0	0	0	0	0	0	27
Sheepshead	0	0	0	0	0	54	0	0	0	0	0	0	54
Total finfish	0	0	0	0	0	6,512	0	159	0	0	0	0	6,671
SHELLFISH^a													
Blue crab	0	0	0	0	0	36	0	34	0	0	0	0	70
Oyster, Eastern	0	0	0	2,294	0	0	0	0	0	0	0	0	2,294
Total shellfish	0	0	0	2,294	0	36	0	34	0	0	0	0	2,364
Grand Total	0	0	0	2,294	0	6,548	0	193	0	0	0	0	9,035

^aMFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

Table D.9. Weight (lb) of each species landed commercially from the San Antonio Bay system during 1987. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	0	0	0	271	0	0	271
Black drum	1,591	803	788	3,067	1,792	0	1,075	894	1,556	2,010	1,526	1,171	16,273
Flounder, unclassified	58	0	136	1,370	1,696	1,071	2,431	3,956	4,641	4,280	4,544	1,201	25,384
Gafftopsail catfish	0	0	69	18	429	0	67	17	254	0	0	0	854
Mullet, unclassified	109,372	0	0	0	6	0	8	8	0	13	0	0	109,407
Seatrout, sand	0	201	156	30	6	0	0	0	0	0	0	29	422
Sheepshead	88	35	71	185	1,253	165	699	291	315	560	333	0	3,995
Total finfish	111,109	1,039	1,220	4,670	5,182	1,236	4,280	5,166	6,766	7,134	6,403	2,401	156,606
SHELLFISH													
Shrimp (heads on)													
Brown and pink	3,376	297	1,622	30,398	967,489	642,888	129,163	0	1,428	0	51,380	2,199	1,830,240
White	2,932	0	0	239	398	52	344	442,616	304,226	155,248	33,609	345	940,009
Total Shrimp	6,308	297	1,622	30,637	967,887	642,940	129,507	442,616	305,654	155,248	84,989	2,544	2,770,249
Blue crab	64,071	49,432	35,735	169,595	471,925	1,083,755	525,686	484,945	622,383	514,058	356,780	397,248	4,775,613
Oyster, Eastern	0	26,566	11,200	30,415	0	0	0	0	0	0	0	24,956	93,137
Squid, unclassified	0	0	0	96	179	0	0	0	0	0	0	0	275
Stone crab	0	0	0	0	0	0	4	3,200	0	0	0	0	3,204
Total shellfish	70,379	76,295	48,557	230,743	1,439,991	1,726,695	655,197	930,761	928,037	669,306	441,769	424,748	7,642,478
Grand Total	181,488	77,334	49,777	235,413	1,445,173	1,727,931	659,477	935,927	934,803	676,440	448,172	427,149	7,799,084

Table D.10. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system during 1987. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	0	0	0	81	0	0	81
Black drum	716	602	591	1,595	1,344	0	817	671	1,167	1,431	916	726	10,576
Flounder, unclassified	49	0	187	1,918	2,375	1,499	3,403	5,416	5,937	5,012	4,814	1,570	32,180
Gafftopsail catfish	0	0	11	5	112	0	13	3	51	0	0	0	195
Mullet, unclassified	9,843	0	0	0	3	0	4	4	0	7	0	0	9,861
Seatrout, sand	0	90	69	13	4	0	0	0	0	0	0	15	191
Sheepshead	18	7	32	73	437	83	268	111	96	158	100	0	1,383
Total finfish	10,626	699	890	3,604	4,275	1,582	4,505	6,205	7,251	6,689	5,830	2,311	54,467
SHELLFISH													
Shrimp (heads on)													
Brown and pink	9,115	392	2,482	52,893	890,090	520,741	126,580	0	1,585	0	64,225	2,177	1,670,280
White	2,844	0	0	777	1,071	226	908	619,662	419,832	204,927	43,356	945	1,294,548
Total Shrimp	11,959	392	2,482	53,670	891,161	520,967	127,488	619,662	421,417	204,927	107,581	3,122	2,964,828
Blue crab	25,011	25,702	18,582	83,208	211,215	378,822	183,604	169,354	205,221	185,343	124,952	162,192	1,773,206
Oyster, Eastern	0	51,936	19,200	52,140	0	0	0	0	0	0	0	63,384	186,660
Squid, unclassified	0	0	0	48	90	0	0	0	0	0	0	0	138
Stone crab	0	0	0	0	0	0	2	256	0	0	0	0	258
Total shellfish	36,970	78,030	40,264	189,066	1,102,466	899,789	311,094	789,272	626,638	390,270	232,533	228,698	4,925,090
Grand Total	47,596	78,729	41,154	192,670	1,106,741	901,371	315,599	795,477	633,889	396,959	238,363	231,009	4,979,557

Table D.11. Weight (lb) of each species landed commercially from the Arkansas Bay system during 1987. Data based on MPRR and MFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	0	8	0	0	0	0	8
Atlantic croaker	17	0	0	0	0	0	0	0	0	24	0	0	41
Black drum	6,002	1,612	1,091	2,638	2,692	2,515	5,571	1,247	2,609	5,850	11,416	3,153	46,396
Flounder, unclassified	1,370	214	1,107	779	1,311	285	3,160	2,279	3,045	4,590	42,540	9,385	70,065
Gafftopsail, catfish	0	0	481	1,093	485	0	0	0	0	0	0	0	2,059
Kingfish, unclassified	14	0	0	0	0	0	0	0	55	0	0	0	69
Mullet, unclassified	49,655	0	0	0	0	0	0	0	0	0	0	26	49,681
Shark, unclassified	0	0	0	0	0	5	182	0	185	0	12	0	384
Sheepshead	131	19,854	2,412	224	201	265	97	143	225	783	3,815	1,737	29,887
Unclassified food	0	33	0	0	0	0	0	0	0	0	0	0	33
Unclassified scrap	0	14	23	127	0	0	0	0	0	0	0	0	164
Total finfish	57,189	21,727	5,114	4,861	4,689	3,070	9,010	3,677	6,119	11,247	57,783	14,301	198,787
SHELLFISH													
Shrimp (heads on)													
Brown and pink	0	19,093	61,728	128,761	0	2,376,045	485,940	1,050	47,076	0	144,723	44,497	3,308,913
White	18,473	0	0	1,877	0	4,193	2,122	402,683	313,129	333,756	74,026	5,735	1,155,994
Total shrimp	18,473	19,093	61,728	130,638	0	2,380,238	488,062	403,733	360,205	333,756	218,749	50,232	4,464,907
Blue crab	243,060	22,188	28,085	36,635	12,936	112,882	197,354	208,296	206,669	208,326	174,588	232,543	1,683,562
Oyster, Eastern	44,311	67,797	83,547	130,344	0	0	0	0	0	0	29,820	28,351	384,170
Squid, unclassified	6	0	375	264	216	36	98	146	10	29	264	145	1,589
Stone crab	314	149	118	1,224	4,416	1,896	7,560	8,748	0	0	3,680	2,738	30,843
Total shellfish	306,164	109,227	173,853	299,105	17,568	2,495,052	693,074	620,923	566,884	542,111	427,101	314,009	6,565,071
Grand Total	363,353	130,954	178,967	303,966	22,257	2,498,122	702,084	624,600	573,003	553,358	484,884	328,310	6,763,858

Table D.12. Ex-vessel value (\$) of each species landed commercially from the Arkansas Bay system during 1987. Data based on MMPR and MFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Alligator gar	0	0	0	0	0	0	0	3	0	0	0	0	3
Atlantic croaker	6	0	0	0	0	0	0	0	0	0	0	0	11
Black drum	3,153	817	835	1,903	1,285	3,088	4,187	1,357	2,876	6,057	6,727	2,410	34,695
Flounder, unclassified	1,207	249	1,397	1,009	1,641	464	4,911	3,295	4,526	5,645	35,323	8,700	68,367
Gafftopsail catfish	0	0	121	164	103	0	0	0	0	0	0	0	388
Kingfish, unclassified	5	0	0	0	0	0	0	0	22	0	0	0	27
Mullet, unclassified	4,469	0	0	0	0	0	0	0	0	0	0	13	4,482
Shark, unclassified	0	0	0	0	0	13	36	0	37	0	6	0	92
Sheepshead	28	4,783	607	57	43	106	24	46	80	191	925	424	7,314
Unclassified food	0	17	0	0	0	0	00	0	0	0	0	0	17
Unclassified scrap	0	14	23	38	0	0	0	0	0	0	0	0	75
Total finfish	8,868	5,880	2,983	3,171	3,072	3,671	9,158	4,701	7,541	11,898	42,981	11,547	115,471
SHELLFISH													
Shrimp (heads on)													
Brown and pink	0	25,012	103,086	249,796	0	2,374,939	617,114	1,460	61,717	0	218,532	61,406	3,713,092
White	24,015	0	0	6,795	0	14,313	5,899	579,864	494,458	527,334	122,143	9,233	1,784,054
Total Shrimp	24,015	25,012	103,086	256,591	0	2,389,252	623,043	581,324	556,175	527,334	340,675	70,639	5,497,146
Blue crab	90,106	8,778	12,108	16,105	4,587	36,590	64,149	68,907	73,723	72,946	69,112	87,204	604,315
Oyster, Eastern	106,074	132,942	153,177	266,786	0	0	0	0	0	0	86,376	73,503	818,858
Squid, unclassified	3	0	188	132	60	11	49	73	3	15	66	68	668
Stone crab	159	81	68	649	2,430	1,062	4,236	4,733	0	0	2,058	1,506	16,982
Total shellfish	220,357	166,813	268,627	540,263	7,077	2,426,915	691,477	655,037	629,901	600,295	498,287	232,920	6,937,969
Grand Total	229,225	172,693	271,610	543,434	10,149	2,430,586	700,635	659,738	637,442	612,193	541,268	244,467	7,053,440

Table D.13. Weight (lb) of each species landed commercially from the Corpus Christi Bay system during 1987. Data based on MMR and MFES.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	18,877	0	0	0	0	0	0	18,877
Atlantic cutlassfish	0	0	0	0	0	3,888	0	0	0	0	0	0	3,888
Black drum	12,401	41,253	9,501	19,026	462	5,011	1,034	315	644	4,867	8,374	2,072	104,960
Flounder, unclassified	392	883	166	690	177	950	827	775	1,216	5,207	41,568	10,608	63,459
Gafftopsail catfish	0	0	0	1,155	0	89	0	0	0	0	0	0	1,244
Shark, unclassified	0	0	0	0	0	0	0	0	50	98	179	33	360
Sheepshead	986	3,694	698	1,172	180	133	409	52	79	595	6,535	6,846	21,379
Unclassified scrap	341	0	0	0	0	0	0	0	0	0	0	0	341
Total finfish	14,120	45,830	10,365	22,043	819	28,948	2,270	1,142	1,989	10,767	56,656	19,559	214,508
SHELLFISH													
Shrimp (heads on)													
Brown and pink	0	8,955	36,040	149,704	328,600	377,441	187,677	4,334	38,641	14,144	104,691	59,567	1,309,794
White	9,934	6,892	59	891	1,837	220	83	303,230	191,652	192,749	48,798	7,987	764,332
Total Shrimp	9,934	15,847	36,099	150,595	330,437	377,661	187,760	307,564	230,293	206,893	153,489	67,554	2,074,126
Blue crab	28,642	10,254	11,095	4,243	52,662	33,525	20,447	16,379	15,966	33,377	20,041	20,487	267,118
Mantis Shrimp	0	91	0	0	0	0	0	0	0	0	0	0	91
Oyster, Eastern	0	0	0	0	0	0	0	0	0	0	0	403	403
Squid, unclassified	0	0	0	1,786	959	1,275	168	1,394	176	110	268	257	6,402
Stone crab	221	582	344	344	440	810	185	620	3,120	1,936	1,035	2,172	11,809
Total shellfish	38,797	26,774	47,547	156,968	384,498	413,271	208,560	325,957	249,555	242,316	174,833	90,873	2,359,949
Grand Total	52,917	72,604	57,912	179,011	385,317	442,219	210,830	327,099	251,544	253,083	231,489	110,432	2,574,457

Table D.14. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system during 1987. Data based on WIPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	7,551	0	0	0	0	0	0	7,551
Atlantic cutlassfish	0	0	0	0	0	311	0	0	0	0	0	0	311
Black drum	6,727	21,638	5,250	14,617	199	1,731	1,025	309	625	3,084	4,625	1,032	60,862
Flounder, unclassified	384	894	187	826	239	1,295	1,074	1,065	1,575	5,349	37,584	9,612	60,084
Gafftopsail catfish	0	0	0	118	0	6	0	0	0	0	0	0	124
Shark, unclassified	0	0	0	0	0	0	0	0	21	41	83	17	162
Sheepshead	161	919	242	444	68	51	155	20	23	189	1,723	1,483	5,478
Unclassified scrap	136	0	0	0	0	0	0	0	0	0	0	0	136
Total finfish	7,408	23,451	5,679	16,005	506	10,945	2,254	1,394	2,244	8,663	44,015	12,144	134,708
SHELLFISH													
Shrimp (heads on)													
Brown and pink	0	13,940	59,106	279,946	371,318	434,057	224,492	5,981	47,969	22,630	164,476	86,319	1,710,234
White	12,517	9,787	74	2,851	6,834	836	211	432,784	297,462	334,464	82,474	13,202	1,193,496
Total Shrimp	12,517	23,727	59,180	282,797	378,152	434,893	224,703	438,765	345,431	357,094	246,950	99,521	2,903,730
Blue crab	12,316	4,406	4,759	1,899	11,613	13,451	8,155	6,402	6,537	14,333	8,807	9,219	101,897
Mantis shrimp	0	36	0	0	0	0	0	0	0	0	0	0	36
Oyster, Eastern	0	0	0	0	0	0	0	0	0	0	0	1,449	1,449
Squid, unclassified	0	0	3	536	271	347	43	521	49	28	67	64	1,929
Stone crab	178	327	189	228	299	406	119	352	1,660	979	503	1,106	6,346
Total shellfish	25,011	28,496	64,131	285,460	390,335	449,097	233,020	446,040	353,677	372,434	256,327	111,359	3,015,387
Grand Total	32,419	51,947	69,810	301,465	390,841	460,042	235,274	447,434	355,921	381,097	300,342	123,503	3,150,095

Table D. 15. Weight (lb) of each species landed commercially from the upper Laguna Madre system during 1987. Data based on MIPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	1	54	0	0	55
Black drum	25,204	47,876	96,463	38,905	24,318	23,935	14,639	17,194	19,712	23,590	1,790	1,781	335,407
Florida pompano	0	0	0	0	10	0	0	0	0	0	0	0	10
Flounder, unclassified	1,333	571	775	3,911	305	6	33	326	1,269	2,232	48	38	10,847
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	622	0	0	622
Sheepshead	1,521	354	803	41	161	0	2	56	281	1,621	294	18	5,152
Total finfish	28,058	48,801	98,041	42,857	24,794	23,941	14,674	17,576	21,263	28,119	2,132	1,837	352,093
SHELLFISH													
Shrimp (heads on)													
Brown and pink	1,547	1,426	18,755	66,453	45,501	35,237	20,664	13,112	49	299	27,356	10,290	240,689
White	0	0	0	0	0	92	0	0	552	0	0	0	644
Total shrimp	1,547	1,426	18,755	66,453	45,501	35,329	20,664	13,112	601	299	27,356	10,290	241,333
Blue crab	0	0	0	10,072	0	16,805	30,426	21,665	37,422	26,615	15,936	20,486	179,427
Squid, unclassified	0	0	0	0	0	0	0	165	0	0	0	0	165
Total shellfish	1,547	1,426	18,755	76,525	45,501	52,134	51,090	34,942	38,023	26,914	43,292	30,776	420,925
Grand Total	29,605	50,227	116,796	119,382	70,295	76,075	65,764	52,518	59,286	55,033	45,424	32,613	773,018

Table D. 16. Ex-vessel value (\$) of each species landed commercially from the upper Laguna Madre system during 1987. Data based on MPR and MFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	0	16	0	0	16
Black drum	21,558	36,207	81,896	31,607	22,930	11,958	14,392	17,610	21,692	19,636	1,575	1,496	282,557
Florida Pompano	0	0	0	0	10	0	0	0	0	0	0	0	10
Flounder, unclassified	1,286	531	786	2,378	441	7	42	391	1,564	2,389	56	37	9,908
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	162	0	0	162
Sheepshead	512	120	321	12	64	0	1	20	103	431	88	5	1,677
Total Finfish	23,356	36,858	83,003	33,997	23,445	11,965	14,435	18,021	23,359	22,634	1,719	1,538	294,330
SHELLFISH													
Shrimp (heads on)													
Brown and pink	1,702	2,210	31,508	122,274	49,141	39,465	26,243	16,390	77	437	45,958	15,435	350,840
White	0	0	0	0	0	407	0	0	911	0	0	0	1,318
Total Shrimp	1,702	2,210	31,508	122,274	49,141	39,872	26,243	16,390	988	437	45,958	15,435	352,158
Blue crab	0	0	0	4,432	0	6,457	12,170	8,449	15,717	11,444	7,012	9,219	74,900
Squid, unclassified	0	0	0	0	0	0	0	58	0	0	0	0	58
Total shellfish	1,702	2,210	31,508	126,706	49,141	46,329	38,413	24,897	16,705	11,881	52,970	24,654	427,116
Grand Total	25,058	39,068	114,511	160,703	72,586	58,294	52,848	42,918	40,064	34,515	54,689	26,192	721,446

Table 0.17. Weight (lb) of each species landed commercially from the lower Laguna Madre system during 1987. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	29,314	13,804	42,935	1,662	15,521	3,292	6,449	2,180	19,022	15,369	8,279	19,177	177,004
Flounder, unclassified	3,462	1,182	1,127	374	3,149	4,449	4,818	10,730	9,634	4,108	8,291	9,353	60,677
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	0	0	287	287
Shark, unclassified	0	0	0	0	0	543	0	0	0	24	118	0	685
Sheepshead	228	135	62	0	0	485	0	0	194	162	244	409	1,919
Total finfish	33,004	15,121	44,124	2,036	18,670	8,769	11,267	12,910	28,850	19,663	16,932	29,226	240,572
SHELLFISH													
Blue crab	9,838	9,283	11,633	13,614	14,536	13,989	32,177	35,496	27,424	24,625	13,904	0	206,519
Oyster, Eastern	0	350	368	420	0	735	70	981	666	473	0	18	4,081
Squid, unclassified	0	0	0	0	0	100	0	0	0	0	0	0	100
Stone crab	1,180	0	512	0	0	0	0	0	0	0	0	0	1,692
Total shellfish	11,018	9,633	12,513	14,034	14,536	14,824	32,247	36,477	28,090	25,098	13,904	18	212,392
Grand Total	44,022	24,754	56,637	16,070	33,206	23,593	43,514	49,387	56,940	44,761	30,836	29,244	452,964

Table D.18. Ex-vessel value (\$) of each species landed commercially from the lower Laguna Madre system during 1987. Data based on MMPR and NMFS.

Species	Months												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
FINFISH													
Black drum	14,946	6,943	33,782	831	7,861	3,425	4,093	1,981	6,025	6,181	5,125	9,795	100,988
Flounder, unclassified	3,133	987	920	443	2,664	4,338	4,804	10,277	9,308	4,597	8,433	9,454	59,358
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	0	0	95	95
Shark, unclassified	0	0	0	0	0	272	0	0	0	12	59	0	343
Sheepshead	46	34	16	0	0	238	0	0	68	41	61	102	606
Total finfish	18,125	7,964	34,718	1,274	10,525	8,273	8,897	12,258	15,401	10,831	13,678	19,446	161,390
SHELLFISH													
Blue crab	2,951	2,798	4,807	5,437	3,363	3,497	8,044	7,099	5,485	5,664	4,171	0	53,316
Oyster, Eastern	0	660	693	720	0	1,512	144	2,592	1,216	864	0	45	8,446
Squid, unclassified	0	0	0	0	0	50	0	0	0	0	0	0	50
Stone crab	1,475	0	640	0	0	0	0	0	0	0	0	0	2,115
Total shellfish	4,426	3,458	6,140	6,157	3,363	5,059	8,188	9,691	6,701	6,528	4,171	45	63,927
Grand Total	22,551	11,422	40,858	7,431	13,888	13,332	17,085	21,949	22,102	17,359	17,849	19,491	225,317

Appendix E. Monthly commercial finfish and shellfish landings (lb) and ex-vessel value (\$) from the Gulf of Mexico grid zones during 1987.

Table E.1. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1987. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	425	579	0	0	1004
Black drum	0	269	365	299	40	5,607	1751	0	517	854	17,008	22,831	49,541
Bluefish	0	0	107	0	0	0	0	0	0	0	0	0	107
Cobia	0	0	0	0	232	35	169	34	241	45	10	0	766
Dolphin	0	0	0	0	0	0	0	0	12	0	0	0	12
Florida pompano	0	0	0	15	0	0	3	0	0	0	92	6	116
Flounder, unclassified	332	216	296	73	706	682	687	550	1064	467	18,009	7,563	30,645
Gafftopsail catfish	0	0	144	0	1,005	867	0	278	0	0	1,064	510	3,868
Greater amberjack	6	18	15	395	942	47	384	494	0	0	0	0	2,301
Grouper, black	0	0	0	0	0	0	46	0	0	0	0	0	46
Grouper, jewfish	0	0	0	24	0	0	0	0	0	0	0	0	24
Grouper, scamp	182	186	1	55	6	8	3	101	0	0	0	0	542
Grouper, unclassified	8	37	50	2	48	62	175	0	0	0	0	26	408
Grouper, warsaw	0	0	241	222	0	0	0	0	0	0	0	0	463
Grouper, yellowedge	73	57	28	3,043	0	0	0	45	0	0	0	474	3,720
Kingfish, unclassified	188	785	1,117	304	2,336	1,708	3,242	789	1,961	187	244	73	12,934
Mackerel, king	0	0	0	0	0	0	0	28	0	0	0	0	28
Mackerel, Spanish	0	20	20	0	0	0	0	0	0	0	0	0	40
Seatrout, sand	164	1,049	1,139	167	0	0	0	0	0	0	0	0	2,519
Shark, unclassified	0	0	900	0	0	0	0	0	192	0	0	0	1,092
Sheepshead	9	385	602	723	133	291	65	0	0	223	5,281	4,813	12,525
Snapper, red	2,065	8,198	13,996	6,543	3,299	374	4,532	6,081	2,326	3,137	3,910	8,075	62,536
Snapper, unclassified	0	0	0	0	0	0	45	5	0	0	0	0	50
Snapper, vermillion	54	31	34	224	117	4	15	0	0	10	261	0	750
Swordfish	0	0	63	0	0	0	382	0	124	0	0	0	569
Tilefish	0	0	0	108	0	0	0	0	0	0	0	0	108
Tuna, Atlantic Bonito	0	81	0	0	0	0	0	0	0	0	0	0	81
Tuna, little	0	0	170	0	0	0	0	0	0	0	0	0	170
Tuna, unclassified	0	0	0	0	0	0	0	0	67	0	0	0	67
Tuna, yellowfin	0	0	135	0	0	0	354	0	0	0	0	0	489
Unclassified scrap	79	150	0	0	0	0	0	150	150	1,000	0	0	1,529
Wahoo	0	0	0	0	0	0	379	0	0	0	0	0	379
Total finfish	3,160	11,482	19,423	12,197	8,864	9,685	12,232	8,555	7,079	6,502	45,879	44,371	189,429
SHELLFISH													
Blue crab	1,763	945	384	1,049	4,380	2,710	390	7,157	393	30	200	0	19,365
Squid, unclassified	154	89	393	711	506	7	1,195	1,009	325	168	163	0	4,720
Total Shellfish	1,917	1,034	741	1,760	4,886	2,717	1,585	8,166	718	198	363	0	24,085
Grand total	5,077	12,516	20,164	13,957	13,750	12,402	13,817	16,721	7,797	6,700	46,242	44,371	213,514

Table E.2. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1987. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	0	0	0	0	0	0	0	0	208	271	0	0	479
Black drum	0	204	191	173	58	5,607	1,777	0	140	854	12,620	14,850	36,173
Bluefish	0	0	64	0	0	0	0	0	0	0	0	0	64
Cobia	0	0	0	0	197	35	144	34	205	45	9	0	669
Dolphin	0	0	0	0	0	0	0	0	10	0	0	0	10
Florida pompano	0	0	0	13	0	0	4	0	0	0	110	7	134
Flounder, unclassified	267	170	243	69	643	646	669	480	886	463	15,282	6,404	2,622
Gafftopsail catfish	0	0	36	0	373	234	0	41	0	0	74	102	860
Greater amberjack	3	9	8	201	358	16	150	168	0	0	0	0	913
Grouper, black	0	0	0	0	0	0	66	0	0	0	0	0	66
Grouper, Jewfish	0	0	0	25	0	0	0	0	0	0	0	0	25
Grouper, scamp	248	253	1	94	11	10	5	137	0	0	0	0	759
Grouper, unclassified	7	39	50	3	66	83	263	0	0	0	0	33	544
Grouper, warsaw	0	0	255	186	0	0	0	0	0	0	0	0	441
Grouper, yellowedge	99	103	38	5,051	0	0	61	0	0	0	0	720	6,072
Kingfish, unclassified	57	233	350	86	692	542	893	235	588	55	54	15	3,800
Mackerel, king	0	0	0	0	0	0	0	28	0	0	0	0	28
Mackerel, Spanish	0	8	9	0	0	0	0	0	0	0	0	0	17
Seatrout, sand	108	787	900	108	0	0	0	0	0	0	0	0	1,903
Shark, unclassified	0	0	450	0	0	0	0	0	48	0	0	0	498
Sheepshead	7	122	241	298	39	102	23	0	0	89	1,638	1,444	4,003
Snapper, red	3,755	14,988	27,136	12,665	6,235	760	9,167	12,588	4,421	5,398	7,088	13,485	117,686
Snapper, unclassified	0	0	0	0	0	0	90	6	0	0	0	0	96
Snapper, vermillion	59	33	30	363	154	4	19	0	0	13	274	0	949
Swordfish	0	0	225	0	0	0	810	0	446	0	0	0	1,481
Tilefish	0	0	0	113	0	0	0	0	0	0	0	0	113
Tuna, Atlantic Bonito	0	73	0	0	0	0	0	0	0	0	0	0	73
Tuna, little	0	0	128	0	0	0	0	0	0	0	0	0	128
Tuna, unclassified	0	0	0	0	0	0	0	67	0	0	0	0	67
Tuna, yellowfin	0	0	145	0	0	0	283	0	0	0	0	0	428
Unclassified scrap	12	23	0	0	0	0	0	23	23	150	0	0	231
Wahoo	0	0	0	0	0	0	379	0	0	0	0	0	379
Total finfish	4,622	17,045	30,500	19,448	8,826	8,039	14,742	13,801	7,042	7,082	37,149	37,015	205,311
SHELLFISH													
Blue crab	882	443	158	490	1,806	1,139	195	2,505	177	11	80	0	7,886
Squid, unclassified	85	49	224	268	249	2	598	353	118	76	69	0	2,091
Total Shellfish	967	492	382	758	2,055	1,141	793	2,858	295	87	149	0	9,977
Grand total	5,589	17,537	30,882	20,206	10,881	9,180	15,535	16,659	7,337	7,169	37,298	37,015	215,288

Table E.3. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1987. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	147	0	0	195	0	20	20	2,353	0	1,425	125	0	4,285
Black drum	454	46	125	449	331	0	360	250	0	0	75	40	2,269
Bluefish	61	82	2,929	822	265	3,428	179	0	115	2,198	0	0	10,079
Cobia	17	0	141	170	247	71	754	36	118	308	83	19	1,964
Codfishes, unclassified	0	0	88	0	0	0	0	0	0	0	0	0	88
Creville jack	0	0	0	0	1,540	0	0	0	0	0	0	0	1,540
Dolphin	0	0	24	0	30	0	509	119	45	68	186	313	1,294
Florida pompano	0	2	16	0	604	4,655	380	145	201	35	572	2,444	9,056
Flounder, unclassified	344	148	13	54	147	675	183	35	0	145	3,980	572	6,296
Gafftopsail catfish	0	0	3,826	470	0	0	8	0	0	0	0	2	4,306
Greater amberjack	0	0	4,468	3,366	6,223	2,270	2,476	1,669	1,348	1,141	261	448	24,162
Grouper, scamp	65	427	428	997	438	141	362	0	58	442	0	262	3,998
Grouper, unclassified	2,847	3,853	10,432	23,093	20,393	5,951	12,973	13,578	19,074	13,398	12,716	7,938	146,246
Grouper, warsaw	379	1,767	1,205	3,097	1,324	3,165	2,776	4,980	1,777	505	437	402	21,814
Gulf butterfish	0	0	0	0	0	0	0	2,234	0	0	0	0	2,234
Kingfish, unclassified	868	189	151	181	83	98	747	306	387	476	317	61	3,864
Mackerel, king	0	0	0	0	0	41	0	917	0	0	1,488	0	2,446
Mackerel, Spanish	0	0	0	0	109	0	0	0	419	57	71	0	656
Mullet, unclassified	200	0	0	480	0	0	30	0	0	0	0	0	710
Seatrout, sand	38	0	0	0	0	0	0	0	0	0	0	0	38
Shark, blacktip	0	0	3,404	1,290	192	0	27	0	0	0	0	0	4,913
Shark, shortfin mako	934	373	1,258	2,264	23	0	0	0	0	0	0	0	3,545
Shark, unclassified	555	554	464	1,147	408	455	421	25	88	288	171	136	4,910
Sheepshead	12,032	16,180	14,374	30,091	18,437	25,397	22,685	28,678	27,042	29,527	16,684	16,896	258,023
Snapper, red	4,329	2,107	416	162	3,138	435	65	63	113	913	539	203	12,483
Snapper, unclassified	58	321	9,014	8,577	0	0	2,127	0	338	169	1,882	31	23,617
Snapper, vermillion	11,398	3	18,196	8,965	1,904	0	19	0	163	517	409	1,149	42,723
Swordfish	0	311	6,458	418	2,521	3,313	16,899	0	3,117	0	0	667	33,704
Tilefish	0	0	0	0	0	0	0	0	0	0	80	0	80
Triggerfish, gray	0	0	1,337	0	0	0	98	0	0	0	0	0	1,435
Tuna, bluefin	0	0	30	35	49	0	60	0	2,031	0	100	0	7,352
Tuna, unclassified	4,657	390	4,585	236	5,180	0	17,130	0	0	17,608	5,578	16,534	66,851
Tuna, yellowfin	0	0	373	374	407	1,240	728	3,799	0	4,009	5,216	1,902	19,929
Unclassified food	1,881	0	0	3,722	0	0	0	0	0	183	0	0	3,905
Unclassified scrap	0	0	0	0	169	0	193	0	0	40	0	0	402
Wahoo	0	0	0	91,416	65,262	51,745	83,019	59,187	56,434	73,492	50,970	50,019	739,417
Total finfish	41,264	28,750	87,857	91,107	66,910	54,766	85,448	60,706	56,444	73,540	51,086	50,058	749,222
SHELLFISH													
Blue crab	207	265	0	0	400	1,844	100	0	0	0	0	0	2,816
Squid, unclassified	50	62	0	391	1,248	1,177	2,329	1,519	10	48	116	39	6,989
Total Shellfish	257	327	0	391	1,648	3,021	2,429	1,519	10	48	116	39	9,805
Grand total	41,521	29,077	87,857	91,107	66,910	54,766	85,448	60,706	56,444	73,540	51,086	50,058	749,222

Table E.4. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1987. Data based on MPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Atlantic croaker	37	0	0	59	0	7	7	824	0	494	31	0	1,459
Black drum	159	46	38	123	51	0	108	88	0	0	53	28	694
Bluefish	61	62	1,210	485	171	1,257	63	0	160	743	0	0	4,212
Cobia	13	0	106	128	186	53	566	36	118	239	74	16	1,535
Codfishes, unclassified	0	0	53	0	0	0	0	0	0	0	0	0	53
Crevalle, jack	0	0	0	0	385	0	0	0	0	0	0	0	385
Dolphin	0	0	36	0	30	0	702	60	25	34	216	313	1,349
Florida pompano	0	2	10	0	302	5,628	190	73	261	26	286	2,395	9,175
Flounder, unclassified	210	144	13	53	95	731	134	21	0	103	3,980	552	6,036
Gafftopsail catfish	0	0	803	80	0	0	2	0	0	0	0	1	886
Greater amberjack	42	278	2,905	2,188	2,489	908	990	1,001	812	699	159	314	12,785
Grouper, scamp	0	1,305	642	1,496	613	197	507	0	75	707	0	314	5,856
Grouper, unclassified	2,705	3,660	9,915	21,939	30,575	8,265	13,950	22,665	33,053	22,777	21,499	13,495	204,498
Grouper, warsaw	284	1,060	723	1,858	1,324	3,165	2,776	6,225	2,296	631	546	503	21,391
Gulf butterfish	0	0	0	0	0	0	0	1,117	0	0	0	0	1,117
Kingfish, unclassified	164	83	49	90	23	31	233	112	153	141	79	26	1,184
Mackerel, king	0	0	0	0	0	21	0	275	0	0	1,190	0	1,486
Mackerel, Spanish	0	0	0	0	55	0	0	0	126	18	21	0	220
Mullet, unclassified	30	0	0	72	0	0	11	0	0	0	0	0	113
Seatrout, sand	11	0	0	0	0	0	0	0	0	0	0	0	11
Shark, blacktip	0	0	3,949	2,657	240	0	20	0	0	0	0	0	6,866
Shark, shortfin mako	0	0	3,032	6,498	40	0	0	0	0	0	0	0	9,570
Shark, unclassified	420	168	312	522	163	182	1,216	25	70	255	122	68	3,523
Sheepshead	166	554	1,322	270	0	137	244	0	0	11	0	0	2,704
Snapper, red	23,713	29,923	28,685	58,149	32,006	49,458	42,799	61,788	51,886	58,705	33,459	34,371	504,942
Snapper, unclassified	8,225	2,963	582	227	4,707	653	73	66	134	1,492	1,122	325	20,569
Snapper, vermillion	81	449	12,619	12,007	1,430	0	4,254	0	608	304	3,323	53	35,128
Swordfish	41,603	8	85,885	47,156	6,900	0	52	0	734	1,970	511	4,022	188,841
Tilefish	0	342	7,104	460	1,891	2,485	12,675	0	3,117	0	0	334	28,408
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0	40	0	40
Tuna, bluefin	0	0	10,495	0	0	0	74	0	0	0	0	0	10,569
Tuna, unclassified	3,958	195	15	18	90	0	150	0	2,478	0	150	0	7,054
Tuna, yellowfin	0	0	22,054	236	12,950	0	39,399	0	0	33,807	14,447	55,224	178,117
Unclassified food	470	0	140	94	119	310	182	1,330	0	1,046	930	382	5,003
Unclassified scrap	0	0	0	744	0	0	0	0	0	18	0	0	762
Wahoo	0	0	0	0	338	0	84	0	0	30	0	0	452
Total finfish	82,352	41,242	192,697	157,609	97,173	73,488	121,461	95,706	96,106	124,250	82,238	112,669	1,276,993
SHELLFISH													
Blue crab	83	199	0	0	140	476	40	0	0	0	0	0	938
Squid, unclassified	26	16	0	137	551	503	913	566	4	14	47	16	2,793
Total Shellfish	109	215	0	137	691	979	953	566	4	14	47	16	3,731
Grand total	82,461	41,457	192,697	157,746	97,864	74,467	122,414	96,272	96,110	124,264	82,285	112,685	1,280,724

Table E.5. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1987. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FIMFISH													
Black drum	0	0	480	320	300	0	0	0	0	106	0	0	1,297
Bluefish	0	0	0	0	0	7	88	0	0	0	0	0	95
Cobia	0	0	68	0	752	578	12	1,444	874	420	253	160	4,561
Crevalle, jack	170	0	0	0	0	0	0	0	0	0	0	0	170
Dolphin	0	0	0	0	0	19	0	0	0	0	0	0	19
Florida pompano	49	77	0	88	6	0	834	0	1	0	0	0	1,055
Flounder, unclassified	1,123	434	284	213	753	354	111	1,675	1,574	3,582	8,591	5,312	24,006
Greater amberjack	0	490	503	3,011	14,050	69	689	467	249	145	31	70	19,085
Grouper, scamp	0	0	0	4	155	0	0	0	0	0	0	0	159
Grouper, unclassified	962	1,376	548	536	1,584	110	109	467	4,844	167	154	497	11,354
Grouper, warsaw	335	571	282	306	591	205	159	0	371	0	0	0	2,820
Grouper, yellowfin	0	238	0	0	0	0	0	0	0	0	0	0	238
Kingfish, unclassified	70	0	40	7	368	71	31	911	1,395	1,499	1,646	498	6,536
Shark, unclassified	400	148	175	92	1,804	719	0	112	140	553	414	0	4,557
Sheepshead	14	0	0	0	0	0	0	0	0	5	24	0	43
Snapper, red	5,667	3,705	3,651	1,560	2,999	4,550	3,138	4,617	3,531	1,808	3,494	2,572	41,292
Snapper, unclassified	286	0	0	0	1,332	0	190	0	576	132	0	0	2,516
Snapper, vermillion	0	0	0	0	81	0	0	0	258	0	0	0	339
Swordfish	0	0	0	0	56	0	0	0	0	0	0	0	64
Tilefish	0	0	174	0	11	514	0	0	600	0	0	0	1,299
Triggrerfish, gray	0	0	0	0	0	36	13	30	0	0	0	0	79
Tuna, unclassified	0	0	0	0	0	0	104	0	0	0	0	0	104
Tuna, yellowfin	0	0	0	0	94	0	0	0	0	0	0	0	94
Unclassified food	0	0	7	659	17	0	0	0	0	0	0	0	683
Unclassified scrap	0	0	1,257	1,522	385	0	0	0	0	0	0	0	3,664
Total finfish	9,076	7,039	7,477	8,318	25,338	7,232	4,789	9,723	14,413	8,417	14,607	9,700	126,129
SHELLFISH													
Blue crab	0	0	82	2,016	2,194	0	2,314	2,790	2,454	1,658	738	163	14,409
Spiny lobster	0	0	0	0	7	0	0	0	0	0	0	0	7
Squid, unclassified	373	0	68	89	59	0	183	0	0	0	183	0	772
Stone crab	0	0	0	0	0	0	108	592	288	0	0	0	988
Total Shellfish	373	0	150	2,105	2,260	0	2,422	3,382	2,742	1,658	921	163	16,176
Grand total	9,449	7,039	7,627	10,423	27,598	7,232	7,211	13,105	17,155	10,075	15,528	9,863	142,305

Table E. 6. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1987. Data based on MPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	0	0	312	208	75	0	0	0	0	106	0	24	708
Bluefish	0	0	0	0	3	109	0	0	0	0	0	0	112
Cobia	0	0	61	0	586	265	10	950	380	420	210	96	2,873
Creville jack	58	0	0	0	0	0	0	0	0	0	0	0	58
Dolphin	0	0	0	0	0	29	0	0	0	0	0	0	29
Florida pompano	47	149	0	44	8	0	1,051	0	1	0	0	0	1,300
Flounder, unclassified	923	417	237	246	812	368	81	1,163	1,454	3,223	7,848	4,732	21,504
Greater amberjack	0	368	377	2,258	8,968	31	0	234	124	73	26	27	12,486
Grouper, scamp	0	0	0	6	262	0	0	0	0	0	0	0	268
Grouper, unclassified	1,051	1,132	601	368	2,051	163	103	343	6,164	125	116	411	12,628
Grouper, warsaw	322	446	220	241	620	166	126	0	204	0	0	0	2,345
Grouper, yellowfin	0	352	0	0	0	0	0	0	0	0	0	0	352
Kingfish, unclassified	25	0	10	4	96	25	16	320	508	459	494	149	2,106
Shark, unclassified	221	59	87	42	659	183	0	41	140	255	141	0	1,754
Sheepshead	3	0	0	0	0	0	0	0	0	2	7	0	12
Snapper, red	9,382	5,337	4,872	2,548	4,224	8,140	6,219	6,889	5,514	1,959	4,521	3,264	62,869
Snapper, unclassified	486	0	0	0	2,137	0	285	0	1,094	198	0	13,797	4,200
Snapper, vermilion	0	0	0	0	142	0	0	0	240	0	0	0	382
Swordfish	0	0	32	0	156	0	0	0	0	0	0	0	188
Tilefish	0	0	200	0	13	386	0	0	1,020	0	0	0	1,619
Triggerfish, gray	0	0	0	0	0	15	7	9	0	0	0	0	31
Tuna, unclassified	0	0	0	0	0	0	24	0	0	0	0	0	24
Tuna, yellowfin	0	0	0	0	254	0	0	0	0	0	0	0	254
Unclassified food	0	0	1	99	3	0	0	0	0	0	0	0	103
Unclassified scrap	0	0	189	228	58	0	0	0	0	0	0	75	550
Total finfish	12,518	8,260	7,199	6,292	21,124	9,774	8,031	9,949	16,769	6,698	13,363	8,778	128,755
SHELLFISH													
Blue crab	0	0	21	504	549	0	579	698	614	415	185	41	3,606
Spiny lobster	0	0	0	0	14	0	0	0	0	0	0	0	14
Squid, unclassified	187	0	20	27	18	0	0	0	0	0	58	0	310
Stone crab	0	0	0	0	0	0	21	112	55	0	0	0	188
Total Shellfish	187	0	41	531	581	0	600	810	669	415	243	41	4,118
Grand total	12,705	8,260	7,240	6,823	21,705	9,774	8,631	10,759	17,438	7,113	13,606	8,819	132,873

Table E.7. Weight (lb) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1987. Data based on MMRP.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	0	9,011	4,700	6,771	0	0	225	0	0	948	1,322	1,905	24,882
Blue fish	0	0	0	0	0	0	0	0	0	5	0	0	5
Cobia	0	0	9	54	0	298	423	26	0	0	39	0	849
Dolphin	0	0	0	72	0	40	25	249	22	0	0	0	408
Florida pompano	0	360	90	0	10	0	27	0	3	77	25	2	594
Flounder, unclassified	3	458	1,013	73	60	1,209	175	0	171	55	672	2,489	6,378
Gafftopsail catfish	0	0	0	300	921	0	1,150	103	500	0	0	0	2,974
Greater amberjack	1,257	646	1,776	2,419	1,730	10,550	5,772	5,144	3,213	628	643	0	34,890
Grouper, scamp	0	0	0	536	0	0	0	39	0	0	0	0	575
Grouper, unclassified	972	7,959	2,852	2,560	1,761	4,806	1,697	463	0	472	177	43	23,762
Grouper, yellowedge	0	0	0	0	0	0	0	1,212	236	0	0	0	1,448
Grouper, warsaw	975	3,785	1,634	814	1,996	2,011	2,213	863	294	130	142	112	14,969
Grouper, yellowfin	0	0	0	0	0	0	354	0	0	0	0	0	354
Kingfish, unclassified	0	0	0	106	471	0	1,100	382	0	0	0	0	2,059
Mackerel, king	0	0	0	0	0	0	0	0	0	14	0	0	14
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	0	66	0	66
Shark, shortfin mako	0	0	145	0	0	0	0	261	0	0	0	0	526
Shark, unclassified	85	438	836	755	429	1,087	819	356	0	293	958	186	6,242
Sheepshead	0	900	1,100	1,057	680	200	300	0	375	89	0	2,910	7,611
Snapper, red	13,048	8,829	13,323	16,703	18,596	22,631	16,338	10,982	47	12,713	18,809	571	152,590
Snapper, unclassified	0	4,118	0	885	0	0	0	1,419	152	0	20	762	7,356
Snapper, vermillion	0	0	0	843	0	0	0	0	0	0	0	0	843
Swordfish	0	30	0	175	0	0	0	65	0	0	0	2,683	2,953
Tilefish	0	0	32	0	0	0	229	122	66	0	0	0	449
Triggrerfish, gray	0	0	0	0	0	0	0	5	0	6	0	0	11
Tuna, yellowfin	0	0	0	0	0	0	0	0	0	0	0	145	145
Unclassified food	0	0	0	0	16	0	0	0	0	0	0	0	16
Wahoo	0	0	0	0	0	0	0	101	0	0	0	0	101
Total finfish	16,340	36,534	27,510	34,123	26,670	42,832	30,847	21,792	5,079	15,430	22,873	13,040	293,070
SHELLFISH													
Blue crab	0	0	0	0	0	0	0	0	0	320	0	0	320
Squid, unclassified	100	60	0	543	165	0	150	0	0	0	0	805	1,823
Stone crab	0	0	0	176	0	0	0	0	0	0	0	0	176
Total Shellfish	100	60	0	719	615	0	150	0	0	320	0	805	2,319
Grand total	16,440	36,594	27,510	34,842	26,835	42,832	30,997	21,792	5,079	15,750	22,873	13,845	295,389

Table E.8. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1987. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	0	2,212	1,175	3,392	0	0	191	0	0	901	925	1,524	10,320
Blue fish	0	0	0	0	0	0	0	0	0	11	0	0	11
Cobia	0	0	6	58	0	266	365	32	0	0	39	0	766
Dolphin	0	0	0	72	0	64	25	292	33	0	0	0	486
Florida pompano	0	399	113	0	10	0	27	0	4	92	50	1	696
Flounder, unclassified	1	456	1,229	40	60	1,572	88	0	222	55	403	1,322	5,448
Gafftopsail catfish	0	0	0	75	230	0	288	26	125	0	0	0	744
Greater amberjack	880	407	1,375	1,658	731	6,649	4,704	4,289	2,748	471	418	467	24,797
Grouper, scamp	0	0	0	536	0	0	0	27	0	0	0	0	563
Grouper, unclassified	1,400	7,645	3,461	3,216	1,892	6,993	1,529	648	0	663	219	42	27,708
Grouper, yellowedge	0	0	0	0	0	0	0	1,877	371	0	0	0	2,248
Grouper, warsaw	998	3,446	840	453	1,971	1,748	2,655	1,024	250	130	107	68	13,690
Grouper, yellowfin	0	0	0	0	0	0	536	0	0	0	0	0	536
Kingfish, unclassified	0	0	0	21	120	0	275	0	0	0	0	0	741
Mackerel, king	0	0	0	0	0	0	0	0	0	11	0	0	11
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	0	56	0	56
Shark, shortfin mako	0	0	151	0	0	0	0	244	0	0	0	125	520
Shark, unclassified	60	160	517	281	263	599	497	249	0	200	469	65	3,360
Sheepshead	0	225	550	357	238	50	105	0	94	22	0	873	2,514
Snapper, red	26,353	17,945	28,664	29,334	36,873	48,901	34,755	21,986	141	27,819	40,612	970	314,353
Snapper, unclassified	0	8,648	0	1,939	0	0	0	2,705	288	0	26	1,090	14,696
Snapper, vermillion	0	0	0	843	0	0	0	0	0	0	0	0	843
Swordfish	0	102	0	263	0	0	0	208	0	0	0	6,918	7,491
Tilefish	0	0	44	0	0	0	238	140	76	0	0	0	498
Trigger fish, gray	0	0	0	0	0	0	0	5	0	5	0	0	10
Tuna, yellowfin	0	0	0	0	0	0	0	0	0	0	0	392	392
Unclassified food	0	0	0	0	14	0	0	0	0	0	0	0	14
Wahoo	0	0	0	0	0	0	0	115	0	0	0	0	115
Total finfish	26,692	41,645	38,125	42,538	42,402	66,842	46,278	34,192	4,352	30,360	43,324	13,857	433,627
SHELLFISH													
Blue crab	0	0	0	0	0	0	0	0	0	80	0	0	80
Squid, unclassified	50	30	0	183	83	0	75	0	0	0	0	273	694
Stone crab	0	0	0	40	0	0	0	0	0	0	0	0	40
Total Shellfish	50	30	0	223	83	0	75	0	0	80	0	273	814
Grand total	29,742	41,675	38,125	42,761	42,485	66,842	46,353	34,192	4,352	30,460	43,324	14,130	434,441

Table E.9. Weight (lb) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1987. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	5,984	0	159	2,969	4,483	0	3,490	1,361	0	0	0	0	18,446
Dolphin	0	0	0	0	0	159	0	0	0	30	0	0	189
Florida pompano	2,196	73	0	0	500	750	750	0	0	0	0	0	4,269
Flounder, unclassified	143	177	556	674	0	349	91	0	0	146	92	0	2,228
Greater amberjack	2,045	5,821	1,263	166	442	953	1,858	368	771	615	974	829	16,105
Grouper, scamp	362	496	494	123	387	244	244	78	250	151	9	193	2,787
Grouper, unclassified	372	573	166	4,737	9,450	24,856	11,582	25,958	189	7,763	11,380	46	97,072
Grouper, warsaw	1,625	1,520	274	185	50	253	346	250	215	330	354	822	6,224
Grouper, yellowfin	56	2,163	0	0	0	0	3,495	222	0	0	72	105	6,113
Kingfish, unclassified	50	297	0	59	2,329	840	130	45	0	110	317	0	4,177
Shark, unclassified	1,048	2,017	1,593	1,070	1,901	635	114	2,507	1,180	406	471	1,526	14,468
Sheepshead	550	94	524	62	67	94	112	762	69	202	1,133	268	3,937
Snapper, lane	0	0	0	0	0	0	0	0	809	0	0	0	809
Snapper, red	6,607	10,386	6,712	3,950	15,285	19,411	13,261	16,830	7,623	7,866	6,677	8,988	123,596
Snapper, unclassified	596	724	441	0	0	0	0	0	0	0	0	249	2,010
Snapper, Vermilion	0	0	0	0	434	720	1,056	322	0	966	265	305	4,068
Snapper, yellowtail	0	0	0	0	5,176	3,176	0	0	0	0	0	0	8,352
Swordfish	0	0	0	0	0	67	0	0	0	0	0	0	67
Tuna, unclassified	0	0	0	0	0	2,241	1,943	3,181	0	0	0	0	7,365
Tuna, yellowfin	0	0	296	0	0	11,901	0	0	0	0	0	0	12,197
Mahoe	0	0	0	0	0	160	0	0	0	0	0	0	160
Total finfish	21,634	24,341	12,478	13,872	40,240	66,952	38,472	51,884	11,106	18,585	21,744	13,331	334,639
SHELLFISH													
Blue crab	393	0	0	0	0	0	0	0	0	0	0	0	393
Squid, unclassified	6	80	0	0	0	0	0	79	0	0	281	0	446
Stone crab	0	356	0	0	0	0	0	0	0	0	0	0	356
Total Shellfish	399	436	0	0	0	0	0	79	0	0	281	0	1,195
Grand total	22,033	24,777	12,478	13,872	40,240	66,952	38,472	51,963	11,106	18,585	22,025	13,331	335,834

Table E.10. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1987. Data based on MIPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
FINFISH													
Black drum	5,165	0	72	2,227	4,483	0	4,188	1,701	0	0	0	0	17,836
Dolphin	0	0	0	0	0	318	0	0	0	23	0	0	341
Florida pompano	1,208	93	0	0	1,250	1,875	2,250	0	0	0	0	0	6,676
Flounder, unclassified	79	122	498	640	0	438	155	0	0	136	54	0	2,122
Greater amberjack	920	2,435	632	73	221	471	1,076	179	386	308	473	415	7,589
Grouper, scamp	344	422	494	0	123	387	244	78	250	151	9	193	2,695
Grouper, unclassified	446	383	227	5,312	12,944	34,908	17,346	41,451	223	12,379	15,927	58	141,604
Grouper, warsaw	573	681	137	231	25	149	173	125	108	169	225	411	3,007
Grouper, yellowfin	53	1,514	0	0	0	0	3,495	222	0	0	72	105	5,461
Kingfish, unclassified	50	158	0	59	1,578	193	130	16	0	28	104	0	2,316
Shark, unclassified	157	697	714	498	389	127	23	683	290	81	94	305	4,058
Sheepshead	83	16	105	16	13	19	35	246	14	386	282	54	1,269
Snapper, lane	0	0	0	0	0	0	0	0	809	0	0	0	809
Snapper, red	9,879	14,316	10,470	9,409	28,493	35,903	22,896	36,516	11,900	13,457	11,429	14,435	219,103
Snapper, unclassified	566	615	441	0	0	0	0	0	0	1,035	0	498	2,120
Snapper, vermilion	0	0	0	0	434	720	1,056	322	0	966	265	305	4,068
Snapper, yellowtail	0	0	0	0	6,625	4,065	0	0	0	0	0	0	10,690
Swordfish	0	0	0	0	0	335	0	0	0	0	0	0	335
Tuna, unclassified	0	0	0	0	0	3,362	2,915	4,772	0	0	0	0	11,049
Tuna, yellowfin	0	0	296	0	0	29,753	0	0	0	0	0	0	30,049
Total finfish	19,523	21,452	14,086	18,465	56,578	113,343	55,982	86,311	13,980	28,084	28,934	16,779	473,517
SHELLFISH													
Blue crab	134	0	0	0	0	0	0	0	0	0	0	0	134
Squid, unclassified	3	40	0	0	0	0	0	32	0	0	141	0	216
Stone crab	0	445	0	0	0	0	0	0	0	0	0	0	445
Total Shellfish	137	485	0	0	0	0	0	32	0	0	0	0	795
Grand total	19,660	21,937	14,086	18,465	56,578	113,343	55,982	86,343	13,980	28,084	29,075	16,779	474,312

Table E.11. Weight (lb) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during 1987. Data based on NMFS.

Month	Brown and Pink	White	Other	Total
January	1,886,421	197,060	575,655	2,659,136
February	1,830,419	253,179	132,702	2,216,300
March	1,423,779	252,064	22,761	1,698,604
April	1,093,318	277,390	1,599,664	2,970,372
May	1,097,257	750,173	1,490,632	3,338,062
June	5,998,083	1,211,511	834,101	8,043,695
July	15,107,381	567,762	3,852	15,678,995
August	9,160,622	1,146,834	2,603	10,310,059
September	5,870,069	1,177,583	1,782	7,049,434
October	4,257,915	1,823,680	132,113	6,213,708
November	3,892,095	1,603,042	241,265	5,736,402
December	3,450,453	363,278	80,999	3,894,730
Total	55,067,812	9,623,556	5,118,129	69,809,497

Table E.12. Ex-vessel value (\$) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during 1987. Data based on NMFS.

Month	Brown and Pink	White	Other	Total
January	6,206,499	491,843	517,388	7,215,730
February	5,577,997	542,495	38,541	6,159,033
March	4,706,944	659,682	15,272	5,381,898
April	3,336,836	870,859	1,332,752	5,540,447
May	2,731,414	2,183,411	818,499	5,733,324
June	10,828,684	3,700,531	617,640	15,146,855
July	26,511,085	2,291,712	1,607	28,804,404
August	20,886,277	2,784,347	937	23,671,561
September	16,450,037	2,547,599	1,174	18,998,810
October	12,745,541	4,087,879	64,988	16,898,408
November	11,321,427	3,234,056	160,697	14,716,180
December	9,667,384	668,535	74,489	10,410,408
Total	130,970,125	24,062,949	3,643,984	158,677,058

Appendix F. Weight (lb) and ex-vessel value (\$) of menhaden caught off Texas but landed commercially in Louisiana during 1977-1987.

Table F.1. Total weight (lb x 1000) and ex-vessel value (\$ x 1000) of menhaden (Brevoortia sp.) caught off Texas but landed commercially in Louisiana during 1977-1987. Data based on NMFS.

Year	Total weight landed	Total ex-vessel value
1977	46,076.1	1,828.8
1978	111,552.8	4,813.5
1979	116,623.3	4,983.3
1980	52,028.6	2,323.6
1981	131,394.2	5,148.0
1982	121,693.9	4,698.6
1983	95,459.2	3,865.1
1984	116,623.3	4,588.0
1985	49,550.6	1,949.3
1986	141,147.3	7,410.2
1987	110,230.0	4,626.4

Appendix G. Weight (lb) of Eastern oyster meat transplanted to private oyster leases, and weight and ex-vessel value (\$) of reported commercial landings from private oyster leases in Texas bay systems during 1977-1987.

Table G.1. Total weight (lb x 1000) and ex-vessel value (\$ x 1000) of commercial landings of Eastern oyster meat from private oyster leases in Texas bays during 1977-1987. Data based on annual oyster location lease reports of private oyster leaseholders.

Year	Total number of leases	Total leased acreage	Total weight landed	Total ex-vessel value
1977	32	1,831.7	1,078.4	1,293.3
1978	35	1,946.9	508.6	577.6
1979	44	2,368.1	40.9	63.4
1980	44	2,368.1	600.0	982.0
1981	45	2,446.9	504.0	799.8
1982	45	2,446.9	704.1	1,034.7
1983	48	2,510.2	1,047.8	1,495.9
1984	47	2,466.3	643.9	1,095.4
1985	44	2,356.2	483.4	876.5
1986	44	2,356.2	1,652.6	3,246.4
1987	44	2,356.2	1,165.7	2,774.3

Table G.2. Total weight (lb x 1000) of Eastern oyster meat transplanted to private oyster leases in Texas bay systems during 1978^a-1987. Data based on weekly oyster transplant reports submitted to TPMD by oyster leaseholders.

Year	Months												Total	
	January	February	March	April	May	June	July	August	September	October	November	December		
1978	0	0	0	0	378.0	35.0	0	353.5	245.0	0	0	0	0	1,011.5
1979	0	0	0	0	582.8	0	0	271.3	24.5	0	0	0	0	878.5
1980	0	0	0	0	355.3	61.3	0	141.8	0	0	0	0	0	558.3
1981	0	0	0	0	656.3	124.3	0	185.5	318.5	0	0	0	0	1,284.5
1982	0	0	0	0	372.8	7.0	0	435.8	21.0	0	0	0	0	836.5
1983	0	0	0	0	871.5	432.3	0	493.5	236.3	0	0	0	0	2,033.5
1984	0	0	0	341.3	484.8	0	0	761.3	283.5	0	0	0	0	1,870.8
1985	0	0	0	0	693.0	448.0	273.0	502.3	99.8	0	0	0	0	2,016.0
1986	0	0	0	0	1,436.9	402.3	530.5	530.4	442.0	123.3	0	0	0	3,465.4
1987	0	0	0	0	0	1,025.6	338.4	340.7	251.6	189.4	146.3	0	0	2,292.1

^aData prior to 1978 not available.

Table G.3. Total weight (lb x 1000) of Eastern oyster meat landed from private oyster leases in Texas bay systems during 1978^a-1987. Data based on monthly oyster harvest reports submitted to TPMD by oyster leaseholders.

Year	Months												Total	
	January	February	March	April	May	June	July	August	September	October	November	December		
1978	60.6	49.8	58.0	55.1	13.5	65.1	83.5	25.7	41.9	53.9	1.6	0	0	508.7
1979	0.4	1.4	0.7	0	0	0	6.2	0	0	14.1	9.9	5.6	0	38.3
1980	17.8	16.3	12.8	20.5	47.0	77.2	113.4	76.1	99.5	85.0	1.1	2.1	0	568.8
1981	26.1	36.3	30.5	38.1	47.6	62.6	67.2	35.1	22.7	49.3	31.4	28.8	0	475.7
1982	11.6	14.6	26.2	38.7	64.9	63.0	60.4	66.5	64.3	92.1	0	0	0	502.3
1983	0	25.4	35.6	82.4	120.9	198.9	164.6	65.1	64.5	88.8	11.2	6.9	0	864.3
1984	8.2	10.5	36.9	45.2	83.9	123.6	42.4	43.9	29.2	104.1	1.4	14.5	0	543.8
1985	5.4	0	0	6.8	42.4	84.1	83.0	58.4	40.3	65.0	0	0	0	385.4
1986	51.9	99.2	117.6	160.3	122.1	237.6	240.4	215.7	71.2	129.6	2.7	37.8	0	1,486.1
1987	0	110.6	64.5	91.2	167.3	256.8	159.2	120.8	62.4	65.9	54.4	11.3	0	1,164.4

^aData prior to 1978 not available.

Appendix H. Number of commercial licenses sold in Texas in each fiscal year (September-August) from 1956-1987.

Table H.1. Number of commercial dealer licenses sold in Texas in each fiscal year from 1956 through 1987^a. (The sale of a license occurs when money is received in Austin).

Fiscal year	Retail Fish ^b			Retail		Whole-			Shrimp		Menhaden fish plant
	Large	Medium	Small	fish truck	oyster	Bait	fish sale	fish truck	house operator	Bait shrimp	
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	1,171	73	6	25	0
1960	3,163	1,491	3,775	86	0	4,043	1,175	81	18	582	0
1961	3,390	1,499	3,482	78	12	3,865	1,185	87	9	528	2
1962	3,388	1,549	3,564	63	0	3,421	1,187	72	10	502	5
1963	3,414	1,594	3,437	88	2	3,192	2,01	83	16	500	1
1964	3,485	1,650	3,688	76	0	3,260	2,05	69	29	476	3
1965	3,435	1,598	3,585	73	1	3,034	2,09	71	36	412	2
1966	3,467	1,617	3,559	65	0	2,968	2,34	78	28	417	1
1967	3,433	1,573	3,492	46	0	3,272	2,27	69	29	416	1
1968	3,455	1,619	3,477	57	1	3,030	2,41	74	37	432	1
1969	3,545	1,645	3,441	50	0	3,071	2,03	67	31	405	1
1970	3,574	1,599	3,481	53	0	3,169	2,11	62	33	408	1
1971	3,639	1,585	3,418	73	0	3,214	2,25	62	34	397	1
1972	3,761	1,551	3,382	97	0	3,146	2,19	52	33	439	1
1973	3,694	1,551	3,363	122	0	2,928	2,19	65	33	430	1
1974	3,721	1,481	2,794	167	0	2,471	2,51	54	27	417	0
1975	3,639	1,438	2,725	436	0	2,692	2,50	58	26	417	0
1976	3,513	1,449	2,717	490	0	3,000	2,41	54	27	423	0
1977	3,002	1,330	2,703	599	0	3,019	2,60	67	25	422	0
1978	2,919	1,301	2,718	789	0	2,994	2,60	77	27	420	0
1979	2,818	1,211	2,668	602	1	2,874	2,54	60	28	477	0
1980	2,524	1,174	2,494	541	1	2,856	2,65	44	30	477	0
1981	2,481	1,153	2,370	885	3	2,773	2,54	52	27	500	0
1982	2,256	1,147	2,246	1,287	2	2,831	3,07	83	29	520	0
1983	4,755	1,108	2,222	1,175	3	2,980	3,29	108	47	692	0
1984 ^c	6,009			980	0	2,975	3,94	72	33	569	0
1985	2,683			932	0	1,393	2,51	72	19	380	0
1986	6,356			1,071	0	4,062	4,65	92	37	620	0
1987	4,005			907	0	2,730	3,74	97	32	495	0

^a License data are not additive across columns for any row since dealers may have multiple licenses.

^b Large = Dealer located in a city with > 40,000 population;

Medium = Dealer located in a city with 7,500 to 40,000 population;

Small = Dealer located in a city with < 7,500 population.

^c Beginning in fiscal year 1984, all retail fish dealer licenses were combined into one category.

Table H.2. Number of commercial saltwater fishermen licenses sold in Texas in each fiscal year from 1956 through 1987. (The sale of a license occurs when money is received in Austin).

Fiscal year	Tidal water	Red drum	General				Finfish					
			Resident ^a		Non-b		Resident		Non-resident ^b		Menhaden only	Import
			Fisherman	Vessel	Fisherman	Vessel	Fisherman	Vessel	resident	resident		
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								558	
1980	2,127	636	19,945			0	2,291	1,987	46	444	80	
1981	52	635	14,309			2,626	3,491	1,680	16	31	0	336
1982			13,468			2,697	3,970	632	668	12	0	268
1983			15,492			3,417	4,021	482	445	26	0	198
1984			13,887			2,926	6,656	445	499	48	0	190
1985			9,291			2,008	4,142	491	491	24	0	200
1986			11,829			2,633	2,781	997	491	24	0	193
1987			11,042			2,134	1,751					

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

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

Table H.3. Number of commercial fishing gear licenses sold in Texas in each fiscal year from 1956 through 1987. (The sale of a license occurs when money is received in Austin).

Fiscal year	Saltwater		Seine tags	Commercial		Mussel dredge permit (power)
	trotline tags			oyster dredge		
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	
1982		16,625	8,013	103	2	
1983		15,714	8,283	244	0	
1984		9,518	6,551	250	1	
1985		7,648	7,006	102	0	
1986		8,460	7,339	137	1	
1987		9,064	6,655	221	2	

Table H.4. Number of commercial saltwater boat and vessel licenses sold in Texas in each fiscal year from 1956 through 1987^a. (The sale of a license occurs when money is received in Austin).

Fiscal year	Fishing boat	Fishing Boat (menhaden only)	Gulf shrimp	Bay shrimp	Bay-bait shrimp boat	Bait shrimp boat	Duplicate commercial shrimp boat plates
1956	1,392	39	0	0	0	0	0
1957	1,535	36	0	0	0	0	0
1958	2,466	36	0	0	0	0	0
1959	2,657	47	125	0	0	0	0
1960	2,280	21	1,755	0	1,846	0	0
1961	1,616	24	1,947	0	2,506	0	0
1962	1,396	24	1,655	0	2,456	0	0
1963	1,314	13	1,636	24	3,328	0	0
1964	1,380	17	1,958	1,849		1,196	0
1965	1,236	26	1,958	2,217		1,321	0
1966	1,147	22	1,947	1,969		1,460	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
1982	791	38	4,046	4,479		2,283	69
1983	1,087	41	4,124	4,711		2,723	53
1984	1,116	48	4,663	4,922		3,103	63
1985	807	15	2,921	4,387		2,396	49
1986	1,024	25	3,425	3,613		2,680	53
1987	1,050	26	3,038	3,402		2,527	46

^aLicense data are not additive across columns for any row since boats may have multiple licenses.

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