

TRENDS IN TEXAS COMMERCIAL FISHERY LANDINGS,  
1977-1988

by

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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 1988 and more than 94% of the total ex-vessel value. During this period blue crabs, Eastern oysters 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 83%, by weight, of all seafood landed in calendar year 1988 and 92% of the total 1988 ex-vessel value. During 1988 blue crabs, Eastern oysters and finfish comprised 10%, 2%, and 4% of the total landings respectively, and 2%, 3% and 2% of the total ex-vessel value respectively. Compared to 1987 prices, the average 1988 unit price for shrimp, finfish, blue crabs and Eastern oysters increased 4%, 11%, 9% and 5% respectively.

The total reported landings and ex-vessel value for 1988 were 17% and 7% less than the record values of 1986. Total coastwide landings were more than 96 million pounds and ex-vessel value was over \$181 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 1988.

## 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 1988 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 1987 and 1988, 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 12-year period of 1977-88 more than 1.2 billion pounds of seafood products valued at more than \$2.1 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 from bays only, represented 3% 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 87% of the total ex-vessel value, indicating that Gulf landings were 2.5 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 32% of the total bay landings and 38% 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).

During this period, total coastwide Gulf landings ranged from 53 to 82 million pounds per year and ex-vessel values ranged from \$126 to \$206 million annually. The most productive offshore Gulf area with respect to products landed (excluding shrimp) during the 12-year period was grid zone 18.0, offshore from the Galveston Bay system. Approximately 32% of total coastwide Gulf landings was harvested from grid zone 18.0 but it accounted for only 30% of the total ex-vessel value. Grid zone 21.0, offshore from the lower Laguna Madre system, accounted for 24% of the Gulf landings and 26% of the total coastwide ex-vessel value. The least productive Gulf area with respect to landings was grid zone 17.0 offshore from the Sabine Lake system. It accounted for 11% of the landings and less than 11% of the ex-vessel value (Fig. 8.B and Appendix C).

A comparison of percent total coastwide landings by bay systems from 1977 through 1988 indicate that landings from the Galveston Bay system were generally predominant in all product groups (Fig. 9.A-D and 10.A). Shrimp as a group and blue crabs were landed predominantly from the Galveston, Matagorda, San Antonio and Aransas Bay systems. Eastern oysters were landed from the Galveston, Matagorda, San Antonio and Aransas Bay systems. Finfish were landed predominantly from the Galveston, Corpus Christi, upper and lower Laguna Madre Bay systems (Fig. 10.A).

A comparison of percent total coastwide finfish landings by Gulf grid zones from 1977 through 1988 indicates most landings came from grid zone 18.0 and 21.0 (Fig. 10.B).

Annual mean coastwide bay and Gulf landings of brown shrimp (*Penaeus aztecus*) and pink shrimp (*P. duorarum*) from 1977-88 constituted 74%, by weight, of all shrimp landed and represented 75% of the total coastwide ex-vessel value. White shrimp (*P. setiferus*) accounted for 24% 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. Brown and pink shrimp landings have generally remained stable during this 12-year period while white shrimp landings have generally increased. The ex-vessel values of all shrimp species have generally increased since 1977 (Fig. 11.A-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. 11.D). 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. 12.A). 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 2.3 million in 1988 (Fig. 12.B). 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. 12.C). 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 and 1985 but has decreased since 1986. The greatest relative increase in ex-vessel value occurred in 1986 (Fig. 12.D).

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 (Fig. 13.A-D). By 1986 black drum and sheepshead landings had dropped to their lowest levels since 1977, and flounder and snapper landings were at their highest levels in 1982 (Fig. 13.A-D). In 1988 snapper and sheepshead landings increased while black drum and flounder landings decreased sharply. During 1988 black drum, flounder and snapper landings comprised 47% of all finfish landings and 54% 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. 14.A and B), 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 1988 total finfish landings, excluding red drum and spotted seatrout, ranged from 1.5 to 3.8 million pounds annually with mean landings of 2.9 million pounds annually (Fig. 14.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-\$1.18 averaging \$0.76, Eastern oyster prices ranged from \$1.16-\$2.50 averaging \$1.65 and blue crabs ranged from \$0.26-\$0.42 averaging \$0.32. In 1988 snapper had the highest ex-vessel unit price (\$1.94/lb) of the major finfish species landed while Eastern oyster had the highest unit price of the major shellfish species (\$2.49/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 1988 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 62% of the ex-vessel value of brown and pink shrimp from the Gulf in 1988 was landed during July-October. More than 77% of the weight and 71% of the value of white shrimp from the Gulf in 1988 was landed during August-November.

Annual weight and ex-vessel value of menhaden (Brevoortia sp.) caught off Texas but landed commercially in Louisiana during 1977-1988 are presented in Appendix F. Weight and ex-vessel value have annually averaged 99,737,000 pounds and \$4,202,000, 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 1988 are presented in Appendix G. Lease numbers and acreage increased from 1977 through 1983, but weight and ex-vessel value of landings have fluctuated widely among years. During 1988 801,500 pounds of meat valued at \$2,002,200 was landed in Texas from oyster leases.

The number of commercial licenses sold in Texas in each fiscal year (September-August) from 1956 to 1988 are presented in Appendix H. Retail fish dealer licenses sold in 1988 (4,164) decreased 33% from 1986 but increased 4% from 1987. Wholesale fish dealer licenses sold in 1988 (478) increased 3% from 1986 and 28% from 1987.

## 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 million 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. Marine products harvested by licensed commercial fishermen and sold to a licensed bait or seafood dealer to be sold as bait is not reportable. Marine products harvested by licensed commercial fishermen and sold directly to a restaurant owner, operator or employee for consumption



by the restaurant's patrons on the restaurant's premises are not reportable. 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 <sup>a</sup>	Common name	Scientific name <sup>a</sup>
FINFISH		Red drum	<u>Sciaenops ocellatus</u>
Alligator Gar	<u>Lepisosteus spatula</u>	Sand seatrout	<u>Cynoscion arenarius</u>
Atlantic croaker	<u>Micropogonias undulatus</u>	Silver seatrout	<u>Cynoscion nothus</u>
Atlantic cutlassfish	<u>Trichirurus lepturus</u>	Shark	
Atlantic moonfish	<u>Selene setapinnis</u>	Atlantic sharpnose	<u>Rhizoprionodon terraenovae</u>
Atlantic spadefish	<u>Chaetodipterus faber</u>	Blacktip	<u>Carcharhinus limbatus</u>
Black drum	<u>Pogonias cromis</u>	Bull	<u>Carcharhinus leucas</u>
Bluefish	<u>Pomatomus saltatrix</u>	Great hammerhead	<u>Sphyrna mokarran</u>
Cobia	<u>Rachycentron canadum</u>	Shortfin mako	<u>Isurus paucus</u>
Codfish	Family Gadidae	Sheepshead	<u>Archosargus probatocephalus</u>
Crevalle jack	<u>Caranx hippos</u>	Snapper	
Cusk Eel	Family Ophidiidae	Lane snapper	<u>Lutjanus synagris</u>
Dolphin	<u>Coryphaena hippurus</u>	Red snapper	<u>Lutjanus campechanus</u>
Flounder		Vermilion snapper	<u>Rhomboplites aurorubens</u>
Gulf flounder	<u>Paralichthys albigutta</u>	Yellowtail snapper	<u>Ocyurus chrysurus</u>
Southern flounder	<u>Paralichthys lethostigma</u>	Spotted seatrout	<u>Cynoscion nebulosus</u>
Florida pompano	<u>Trachinotus carolinus</u>	Stringray	Family Dasyatidae
Gafftopsail catfish	<u>Bagre marinus</u>	Swordfish	<u>Xiphias gladius</u>
Great barracuda	<u>Sphyraena barracuda</u>	Tilefish	<u>Lopholatilus chamaeleonticeps</u>
Greater amberjack	<u>Seriola dumerilii</u>	Triggerfish, gray	<u>Balistes capriciscus</u>
Grouper		Tuna	
Black grouper	<u>Mycteroperca bonaci</u>	Atlantic bonito	<u>Sarda sarda</u>
Jewfish	<u>Epinephelus itajara</u>	Blackfin tuna	<u>Thunnus atlanticus</u>
Nassau grouper	<u>Epinephelus striatus</u>	Bluefin tuna	<u>Thunnus thynnus</u>
Scamp	<u>Mycteroperca phenax</u>	Yellowfin tuna	<u>Thunnus albacares</u>
Warsaw grouper	<u>Epinephelus nigritus</u>	Wahoo	<u>Acanthocybium solanderi</u>
Yellowedge grouper	<u>Epinephelus flavolimbatus</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 mercinaria</u>
Southern kingfish	<u>Menticirrhus americanus</u>	Eastern oyster	<u>Crassostrea virginica</u>
Mackerel		Lobster	
King mackerel	<u>Scomberomorus cavalla</u>	Shovelnose	Family Scyllariidae
Spanish mackerel	<u>Scomberomorus maculatus</u>	Spiny	<u>Panulirus argus</u>
Menhaden	<u>Brevoortia</u> sp.	Mantis Shrimp	<u>Squilla empusa</u>
Mullet		Shrimp	
Striped mullet	<u>Mugil cephalus</u>	Brown shrimp	<u>Penaeus aztecus</u>
White mullet	<u>Mugil curema</u>	White shrimp	<u>Penaeus setiferus</u>
		Pink shrimp	<u>Penaeus duorarum</u>

Table 1. (Cont'd).

Common name	Scientific name <sup>a</sup>
Other shrimp	
Rock shrimp	<u>Sicyonia brevirostris</u>
Royal red shrimp	<u>Hymenopenaeus robustus</u>
Seabob	<u>Xiphopeneus kroyeri</u>
Squid	
Brief squid	<u>Lolliguncula brevis</u>
Long-finned squid	<u>Loligo pealei</u>

<sup>a</sup> 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 1988.

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

Restrictions and Definitions:

- <sup>a</sup>Gear fishing time.
- <sup>b</sup>Red drum and spotted seatrout excluded.
- <sup>c</sup>Night is defined as the time between 30 min. after sunset and 30 min. before sunrise.
- <sup>d</sup>Day is defined as the time between 30 min. before sunrise and 30 min. after sunset.
- <sup>e</sup>Permitted in designated portions of bays.
- <sup>f</sup>Permitted in gulf waters with restrictions.
- <sup>g</sup>All gear must be removed from the water between 1 pm Friday and 1 pm Sunday.
- <sup>h</sup>Netting prohibited from Saturday of Memorial Day weekend until sunset on Labor Day.
- <sup>i</sup>Netting prohibited from 15 May through 15 Aug.
- <sup>j</sup>Netting prohibited in May, Jun, Jul and Aug.
- <sup>k</sup>Netting 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 1977-1988. 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	858.7	551.3	132.9	701.5	1,147.5	3,391.9	68,726.4	19,652.9	5,123.6	93,502.9	11,688.5	2,897.1	122.7	108,211.2	111,603.1	
1988	714.4	273.5	167.9	806.8	1,882.2	3,844.7	58,874.5	16,510.3	4,670.6	80,055.4	10,009.6	2,269.6	294.5	92,629.1	96,473.9	

Table 4. Texas commercial finfish and shellfish ex-vessel value (\$ x 1000) during 1977-1988. 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	1,36.8	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	1,18.5	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	598.1	538.8	37.8	1,313.9	1,122.2	3,610.9	144,691.4	37,611.8	3,647.3	185,950.5	4,474.0	6,891.4	57.6	197,373.5	200,984.4	
1988	542.3	337.2	47.6	1,563.1	2,036.6	4,526.5	130,497.7	33,872.1	2,546.4	166,916.3	4,155.9	5,669.6	149.7	176,891.7	181,418.3	

Table 5. Weight (lb x 1000) of each species landed commercially from Texas bay systems during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish					Grand Total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Mullet	Other	Unclassified Food Scrap			Shrimp			Blue crab	Eastern oyster		Other	Total	
								Total	Brown and pink	White	Other	Total	White						Other
1977	1,390.7	210.4	30.0	60.8	260.0	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	1,752.3	192.7	19.8	50.4	317.0	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	1,504.7	206.8	16.4	39.0	383.5	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	1,047.2	149.8	13.6	45.3	466.4	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	649.5	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	23,996.4
1982	1,224.5	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	1,480.8	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	869.3	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	632.0	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	572.4	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	37,157.6
1987	762.2	481.7	41.7	7.6	100.6	223.3	13.7	15.0	63.1	1,711.3	13,658.6	10,027.8	5.5	23,691.9	11,651.2	2,897.1	106.3	38,346.5	40,057.9
1988	505.9	208.3	14.1	8.0	149.9	65.7	259.5	32.5	207.4	1,211.4	11,949.7	7,428.4	3.6	19,381.6	9,923.0	2,269.3	278.5	31,952.4	33,063.8

Table 6. Ex-vessel (\$ x 1000) of each species landed commercially from Texas bay systems during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish					Grand Total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Mullet	Other	Unclassified Food Scrap			Shrimp			Blue crab	Eastern oyster		Other	Total	
								Total	Brown and pink	White	Other	Total	White						Other
1977	387.8	121.7	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	600.7	149.1	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	593.5	173.6	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	536.7	122.6	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	373.6	117.7	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	773.5	439.0	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	965.4	394.4	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	440.0	295.4	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	421.1	382.5	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	402.3	485.5	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	532.3	477.5	13.1	2.1	27.3	20.8	7.9	5.5	8.0	1,094.6	13,721.2	13,546.3	3.3	27,270.8	4,461.3	6,891.4	50.6	38,674.1	39,768.8
1988	420.8	277.7	3.4	2.6	41.4	10.9	13.2	35.6	74.0	879.6	11,366.7	10,649.4	1.8	22,018.0	4,123.2	5,669.2	142.5	31,952.9	32,832.5



Table 7. Weight (lb x 1000) of "other" finfish species landed commercially from Texas bay systems during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	6.8
Atlantic cutlassfish	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic moonfish	0	0	0	0	0	0	0	0	0.1	0.1	0	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	3.4
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	0.1
Kingfish, unclassified	6.6	4.8	7.9	6.2	2.7	47.9	8.7	2.2	6.2	4.0	3.8	2.3
Mackerel	0	0	0	0	0	0	0	0.1	1.1	<.1	0	0.1
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	0.5
Shark, unclassified	0	0	0	0	0	0	0	0.1	0.6	0.1	1.7	5.8
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	<.1	0
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	19.0

Table 8. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from Texas bay systems during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Alligator gar	0	0	0	0	0	0	0	0	0	0	2.6	6.1
Atlantic cutlassfish	0	0	0	0	0	0	0	0	0	0	0.3	0
Atlantic moonfish	0	0	0	0	0	0	0	0	<.1	<.1	0	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	3.2
Gulf butterfish	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	1.2	0.8	1.8	1.1	0.7	10.6	2.1	0.6	1.8	1.5	1.5	0.9
Mackerel	0	0	0	0	0	0	0	<.1	1.0	<.1	0	<.1
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	0.5	0.2
Shark, unclassified	0	0	0	0	0	0	0	<.1	0.3	<.1	0.6	2.4
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	<.1	0
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	5.5	12.9

Table 9. Weight (lb x 1000) of "other" shellfish species landed commercially from Texas bay systems during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Atlantic bay scallop	0	0	0	0	0	0	0	0	0.1	5.3	0	0
Mantis shrimp	0	0	0	0	0	0	0	0	0	0	0.1	<.1
Squid	5.3	4.3	0.3	0	0	10.1	2.6	10.0	17.6	25.7	45.6	25.1
Stone crab	0	0	0	0	0	0	0	15.0	135.8	153.7	60.6	253.4
Total	5.3	4.3	0.3	0	0	10.1	2.6	25.0	153.5	184.7	106.3	278.5

Table 10. Ex-vessel (\$ x 1000) of "other" shellfish species landed commercially from Texas bay systems during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Atlantic bay scallop	0	0	0	0	0	0	0	0	0.4	2.4	0	0
Mantis shrimp	0	0	0	0	0	0	0	0	0	0	<.1	<.1
Squid	1.8	1.2	0.1	0	0	4.0	1.3	3.7	7.3	19.9	19.3	10.8
Stone crab	0	0	0	0	0	0	0	9.6	110.2	77.7	31.2	131.6
Total	1.8	1.2	0.1	0	0	4.0	1.3	13.3	117.9	100.0	50.5	142.5

Table 11. Weight (lb x 1000) of each species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish										
	Black drum	Flounder	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food Scrap	Total	Shrimp			Blue crab	Other	Total	Grand Total		
													Brown and pink	White	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	25.2	3.2	24.1	64.8	369.6	4.0	67.1	0.7	699.9	44,549.0	10,852.3	1,210.6	56,611.9	2.7	3.4	56,618.0	57,317.9
1983	12.0	75.0	5.8	3.7	11.5	20.4	17.2	34.8	261.9	1.1	47.5	1.6	492.5	40,657.1	12,336.2	916.9	53,910.2	35.1	5.2	53,950.4	54,442.9
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	1,680.5	55,067.8	9,625.0	5,118.1	69,810.9	37.3	16.4	69,864.6	71,545.3
1988	208.6	65.1	2.5	18.0	30.0	1.2	6.5	469.8	806.8	992.4	31.5	0.9	2,633.4	46,924.8	9,081.9	4,667.0	60,673.7	86.5	16.1	60,776.6	63,410.0

Table 12. Ex-vessel (\$ x 1000) of each species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish										
	Black drum	Flounder	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food Scrap	Total	Shrimp			Blue crab	Other	Total	Grand Total		
													Brown and pink	White	Other						
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	24,065.5	3,644.0	158,679.7	12.6	7.0	158,699.3	161,217.3
1988	121.5	59.5	0.8	6.2	10.4	0.2	5.3	660.3	1,563.1	1,205.7	13.4	0.2	3,646.9	119,131.0	23,222.7	2,544.6	144,898.3	32.7	74.4	144,938.9	148,585.8

Table 13. Weight (lb x 1000) of "other" finfish species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMFR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Atlantic croaker	2.8	10.2	3.7	2.7	2.4	0.4	1.1	1.2	1.9	2.5	5.3	1.5
Atlantic moonfish	0	0	0	0	0	0	0	0	0	<.1	0	0
Atlantic spadefish	0	0	0	0	0	0	0	0	0	0.1	0	0
Bluefish	0	0	0	0	0	0	0	0	0	1.3	10.3	0.4
Codfish	0	0	0	0	0	0	0	0.2	0	0.5	0.1	0
Crevalle, jack	0	0	0	0	0	0	0	0	0	0	1.7	0
Dolphin	0	0	0	0	0	0	0	0.1	0.2	2.9	1.9	3.4
Florida pompano	0.5	0.5	1.5	0.8	0.2	3.6	0	4.0	13.0	13.5	15.1	<.1
Greater amberjack	0	0	0	0	0	0	0	13.7	27.9	106.1	96.5	173.1
Gulf butterfish	0	0	0	0	0	0	0	0	4.9	0.1	2.2	0
Mackerel, king	0	0	0.2	0	0	0	0	1.2	2.5	1.5	2.5	6.2
Mackerel, Spanish	0	0	0	0	0	0	0	0	0.2	0.2	0.8	0.1
Red drum	51.0	7.6	13.1	8.1	9.0	0	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0.1	2.3	0.6	2.6	0
Shark, blacktip	0	0	0	0	0	0	0	0	0	0.7	4.9	2.2
Shark, shortfin mako	0	0	0	0	0	0	0	0	0.5	6.9	4.1	1.2
Shark, unclassified	0	0	0	0	0	0	0	9.8	63.4	105.3	31.3	33.8
Spotted seatrout	111.8	43.4	131.0	49.7	28.6	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0	0	31.9	85.5	46.4	22.3
Tilefish	0	0	0	0	0	0	0	0	41.8	7.3	35.6	214.9
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0.3	0.2	0.8
Tuna, Atlantic bonito	0	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0.3	0	0.5
Tuna, bluefin	0	0	0	0	0	0	0	33.3	2.7	1.1	1.4	0
Tuna, little	0	0	0	0	0	0	0	0	0	0	0.2	0
Tuna, unclassified	0	0	0	0	0	0	0	6.7	22.8	79.0	14.9	38.0
Tuna, yellowfin	0	0	0	0	0	0	0	9.3	1.5	100.6	79.8	475.5
Wahoo	0	0	0	0	0	0	0	0	0	0.1	1.0	16.9
Total	166.1	61.7	149.5	61.3	40.2	4.0	1.1	79.7	217.5	518.1	358.9	990.9

Table 14. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Atlantic croaker	0.6	1.5	0.6	0.2	0.5	0.1	0.2	0.5	0.4	0.8	1.9	0.5
Atlantic moonfish	0	0	0	0	0	0	0	0	0	<.1	0	0
Atlantic spadefish	0	0	0	0	0	0	0	0	0	<.1	0	0
Bluefish	0	0	0	0	0	0	0	0	0	0.7	4.4	0.1
Codfish	0	0	0	0	0	0	0	0.1	0	0.2	0.1	0
Crevalle, jack	0	0	0	0	0	0	0	0	0	0	0.4	0
Dolphin	0	0	0	0	0	0	0	0	0.2	3.0	2.2	3.1
Florida pompano	0.3	0.6	2.4	1.1	0.3	3.2	0.1	5.6	12.3	12.6	18.0	0.1
Greater amberjack	0	0	0	0	0	0	0	10.3	19.2	58.6	58.6	115.7
Gulf butterfish	0	0	0	0	0	0	0	0	2.6	<.1	1.1	0
Mackerel, king	0	0	0.2	0	0	0	0	0.9	2.1	1.1	1.5	5.4
Mackerel, Spanish	0	0	0	0	0	0	0	0	0.1	0.2	0.3	<.1
Red drum	27.6	4.4	10.2	8.3	11.6	0	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0.6	2.1	0.3	1.9	0
Shark, blacktip	0	0	0	0	0	0	0	0	0	0.3	6.9	1.2
Shark, shortfin mako	0	0	0	0	0	0	0	0	0.4	6.3	10.1	0.9
Shark, unclassified	0	0	0	0	0	0	0	2.5	27.8	56.1	13.2	15.0
Spotted seatrout	63.0	29.4	112.4	50.4	38.0	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0	0	93.3	251.3	198.3	65.4
Tilefish	0	0	0	0	0	0	0	0	39.5	6.1	30.6	230.8
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0.1	0.1	0.4
Tuna, Atlantic bonito	0	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0.1	0	0.2
Tuna, bluefin	0	0	0	0	0	0	0	8.4	0.3	4.0	10.6	0
Tuna, little	0	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, unclassified	0	0	0	0	0	0	0	1.9	12.8	102.8	18.2	67.9
Tuna, yellowfin	0	0	0	0	0	0	0	1.9	2.0	100.6	209.2	685.0
Wahoo	0	0	0	0	0	0	0	0	0	0.1	1.3	13.1
Total	91.5	35.9	125.8	60.0	50.4	3.3	0.3	32.7	215.1	605.6	589.1	1,204.9

Table 13. Weight (lb x 1000) of "other" finfish species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMFR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Atlantic croaker	2.8	10.2	3.7	2.7	2.4	0.4	1.1	1.2	1.9	2.5	5.3	1.5
Atlantic moonfish	0	0	0	0	0	0	0	0	0	<.1	0	0
Atlantic spadefish	0	0	0	0	0	0	0	0	0	0.1	0	0
Bluefish	0	0	0	0	0	0	0	0	0	1.3	10.3	0.4
Codfish	0	0	0	0	0	0	0	0.2	0	0.5	0.1	0
Crevalle, jack	0	0	0	0	0	0	0	0	0	0	1.7	0
Dolphin	0	0	0	0	0	0	0	0.1	0.2	2.9	1.9	3.4
Florida pompano	0.5	0.5	1.5	0.8	0.2	3.6	0	4.0	13.0	13.5	15.1	<.1
Greater amberjack	0	0	0	0	0	0	0	13.7	27.9	106.1	96.5	173.1
Gulf butterfish	0	0	0	0	0	0	0	0	4.9	0.1	2.2	0
Mackerel, king	0	0	0.2	0	0	0	0	1.2	2.5	1.5	2.5	6.2
Mackerel, Spanish	0	0	0	0	0	0	0	0	0.2	0.2	0.8	0.1
Red drum	51.0	7.6	13.1	8.1	9.0	0	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0.1	2.3	0.6	2.6	0
Shark, blacktip	0	0	0	0	0	0	0	0	0	0.7	4.9	2.2
Shark, shortfin mako	0	0	0	0	0	0	0	0	0.5	6.9	4.1	1.2
Shark, unclassified	0	0	0	0	0	0	0	9.8	63.4	105.3	31.3	33.8
Spotted seatrout	111.8	43.4	131.0	49.7	28.6	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0	0	31.9	85.5	46.4	22.3
Tilefish	0	0	0	0	0	0	0	0	41.8	7.3	35.6	214.9
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0.3	0.2	0.8
Tuna, Atlantic bonito	0	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0.3	0	0.5
Tuna, bluefin	0	0	0	0	0	0	0	33.3	2.7	1.1	1.4	0
Tuna, little	0	0	0	0	0	0	0	0	0	0	0.2	0
Tuna, unclassified	0	0	0	0	0	0	0	6.7	22.8	79.0	14.9	38.0
Tuna, yellowfin	0	0	0	0	0	0	0	9.3	1.5	100.6	79.8	475.5
Wahoo	0	0	0	0	0	0	0	0	0	0.1	1.0	16.9
Total	166.1	61.7	149.5	61.3	40.2	4.0	1.1	79.7	217.5	518.1	358.9	990.9

Table 14. Ex-vessel value (\$ x 1000) of "other" finfish species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Atlantic croaker	0.6	1.5	0.6	0.2	0.5	0.1	0.2	0.5	0.4	0.8	1.9	0.5
Atlantic moonfish	0	0	0	0	0	0	0	0	0	<.1	0	0
Atlantic spadefish	0	0	0	0	0	0	0	0	0	<.1	0	0
Bluefish	0	0	0	0	0	0	0	0	0	0.7	4.4	0.1
Codfish	0	0	0	0	0	0	0	0.1	0	0.2	0.1	0
Crevalle, jack	0	0	0	0	0	0	0	0	0	0	0.4	0
Dolphin	0	0	0	0	0	0	0	0	0.2	3.0	2.2	3.1
Florida pompano	0.3	0.6	2.4	1.1	0.3	3.2	0.1	5.6	12.3	12.6	18.0	0.1
Greater amberjack	0	0	0	0	0	0	0	10.3	19.2	58.6	58.6	115.7
Gulf butterfish	0	0	0	0	0	0	0	0	2.6	<.1	1.1	0
Mackerel, king	0	0	0.2	0	0	0	0	0.9	2.1	1.1	1.5	5.4
Mackerel, Spanish	0	0	0	0	0	0	0	0	0.1	0.2	0.3	<.1
Red drum	27.6	4.4	10.2	8.3	11.6	0	0	0	0	0	0	0
Sand seatrout	0	0	0	0	0	0	0	0.6	2.1	0.3	1.9	0
Shark, blacktip	0	0	0	0	0	0	0	0	0	0.3	6.9	1.2
Shark, shortfin mako	0	0	0	0	0	0	0	0	0.4	6.3	10.1	0.9
Shark, unclassified	0	0	0	0	0	0	0	2.5	27.8	56.1	13.2	15.0
Spotted seatrout	63.0	29.4	112.4	50.4	38.0	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	0	0	93.3	251.3	198.3	65.4
Tilefish	0	0	0	0	0	0	0	0	39.5	6.1	30.6	230.8
Triggerfish, gray	0	0	0	0	0	0	0	0	0	0.1	0.1	0.4
Tuna, Atlantic bonito	0	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0.1	0	0.2
Tuna, bluefin	0	0	0	0	0	0	0	8.4	0.3	4.0	10.6	0
Tuna, little	0	0	0	0	0	0	0	0	0	0	0.1	0
Tuna, unclassified	0	0	0	0	0	0	0	1.9	12.8	102.8	18.2	67.9
Tuna, yellowfin	0	0	0	0	0	0	0	1.9	2.0	100.6	209.2	685.0
Wahoo	0	0	0	0	0	0	0	0	0	0.1	1.3	13.1
Total	91.5	35.9	125.8	60.0	50.4	3.3	0.3	32.7	215.1	605.6	589.1	1,204.9

Table 15. Weight (lb x 1000) of "other" shellfish species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Shovelnose lobster	0	0	0	0	0	0	0	0	0	0	0	0.1
Spiny lobster	0	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	12.5
Stone crab	0	0	0	0	0	0	0	3.9	3.2	<.1	1.5	3.6
Total	8.5	11.2	0.9	0	0	3.4	5.2	20.9	18.3	14.8	16.4	16.2

Table 16. Ex-vessel (\$ x 1000) of "other" shellfish species landed commercially from the Gulf of Mexico during 1977-1988. Data based on MMPR.

Species	Year											
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Shovelnose lobster	0	0	0	0	0	0	0	0	0	0	0	0.2
Spiny lobster	0	0	0	0	0	0	0	0	0	0	0	0
Squid	4.2	4.4	0.2	0	0	1.0	2.0	6.0	6.1	6.8	6.0	4.9
Stone crab	0	0	0	0	0	0	0	3.6	3.8	<.1	0.7	2.3
Total	4.2	4.4	0.2	0	0	1.0	2.0	9.6	9.9	6.8	6.9	7.4



Table 17. Price (\$/lb) paid commercial fishermen for finfish during 1977-1988. 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
1988	0.18-2.50	0.76	0.50-2.50	1.23	0.20-0.60	0.28	0.64-3.10	1.94	0.10-8.00	1.08

Table 18. Price (\$/lb) paid commercial fishermen for shellfish during 1977-1988. Data based on MMPR and NMFS.

Year	Brown and pink		Shrimp		White		Other		Blue crab		Eastern oyster	
	Range	Mean	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		
1988	0.85-4.38	2.22	1.28-4.47	2.05	0.46-1.01	0.55	0.25-3.00	0.42	1.60-3.89	2.49		

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

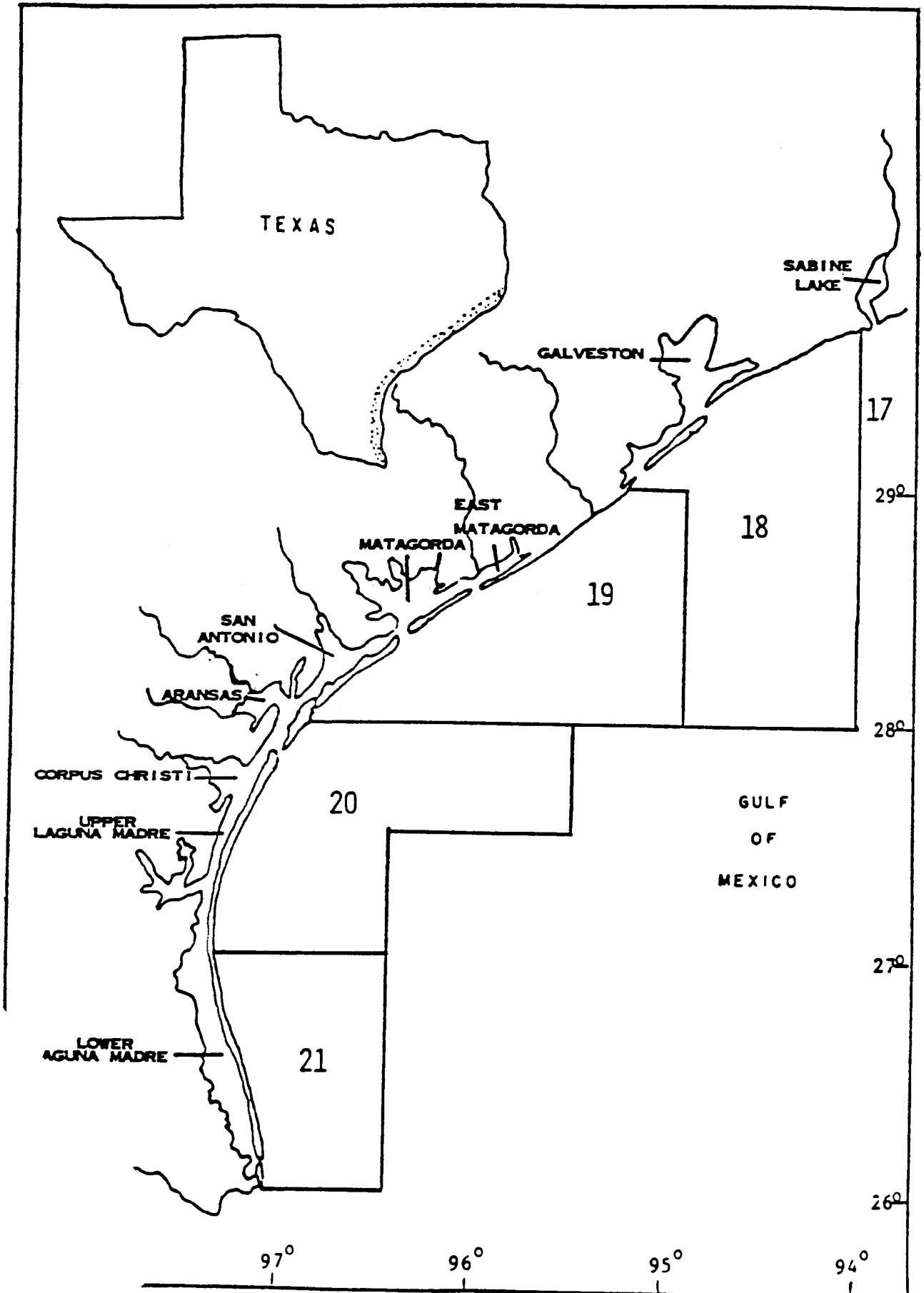


Figure 2. Monthly Marine Products Report (MMPR) form.

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

No. \_\_\_\_\_ For the Month of: \_\_\_\_\_ 19 \_\_\_\_\_

Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

e o c	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 8  
Seabrook, Texas 77586**

**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



**TEXAS  
PARKS AND WILDLIFE DEPARTMENT**

4200 Smith School Road Austin, Texas 78744

CHARLES D. TRAVIS  
Executive Director

**COMMISSIONERS**

CHUCK NASH  
Chairman, San Marcos

GEORGE C. "TIM" HIXON  
Vice-Chairman  
San Antonio

BOB ARMSTRONG  
Austin

LEE M. BASS  
Ft. Worth

HENRY C. BECK, III  
Dallas

DELO H. CASPARY  
Rockport

JOHN WILSON KELSEY  
Houston

BEATRICE CARR PICKENS  
Amarillo

A.R. (TONY) SANCHEZ, JR.  
Laredo

Dear Seafood Dealer:

The Parks and Wildlife Department and the National Marine Fisheries Service are responsible for gathering information on the commercial landings of seafood in Texas. The Texas Parks and Wildlife Code requires that you report all purchases of seafood to the Texas Parks and Wildlife Department by the 10th of each month.

The National Marine Fisheries Service also requires reporting of shrimp landings. To reduce the burden on you, the dealer, and to prevent duplication of government programs, the Parks and Wildlife Department and the National Marine Fisheries Service cooperate in collecting landings data. The Department focuses on dealers buying fish, crabs, and oysters while the Service visits shrimp dealers. The two agencies exchange the data collected so you do not have to complete two reports.

However, there are occasions when dealers buying mainly shrimp will buy other seafood. FOR YOUR CONVENIENCE, you may provide the data on these other seafood purchases to the National Marine Fisheries Service if you so choose. By providing these data to the National Marine Fisheries Service, you will have met your obligation to provide reports of seafood purchases to the Parks and Wildlife Department.

If you wish to provide data on all seafood purchases you make to the National Marine Fisheries Service for transmission to the Texas Parks and Wildlife Department, please provide the information requested, sign, date and return to the National Marine Fisheries Service.

If you choose not to provide these data to the National Marine Fisheries Service, then you must submit them to the Texas Parks and Wildlife Department.



page 2

Thank you for your cooperation.

Sincerely,

Charles D. Travis  
Executive Director

CDT:GM:klj

---

Dealer's Name  
(Please Print)

---

Address

---

Dealer or Authorized  
Representative Signature

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 LAGUNA MADRE LAGUNA MADRE GULF OF MEXICO  
 1 2 3 4 6 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.

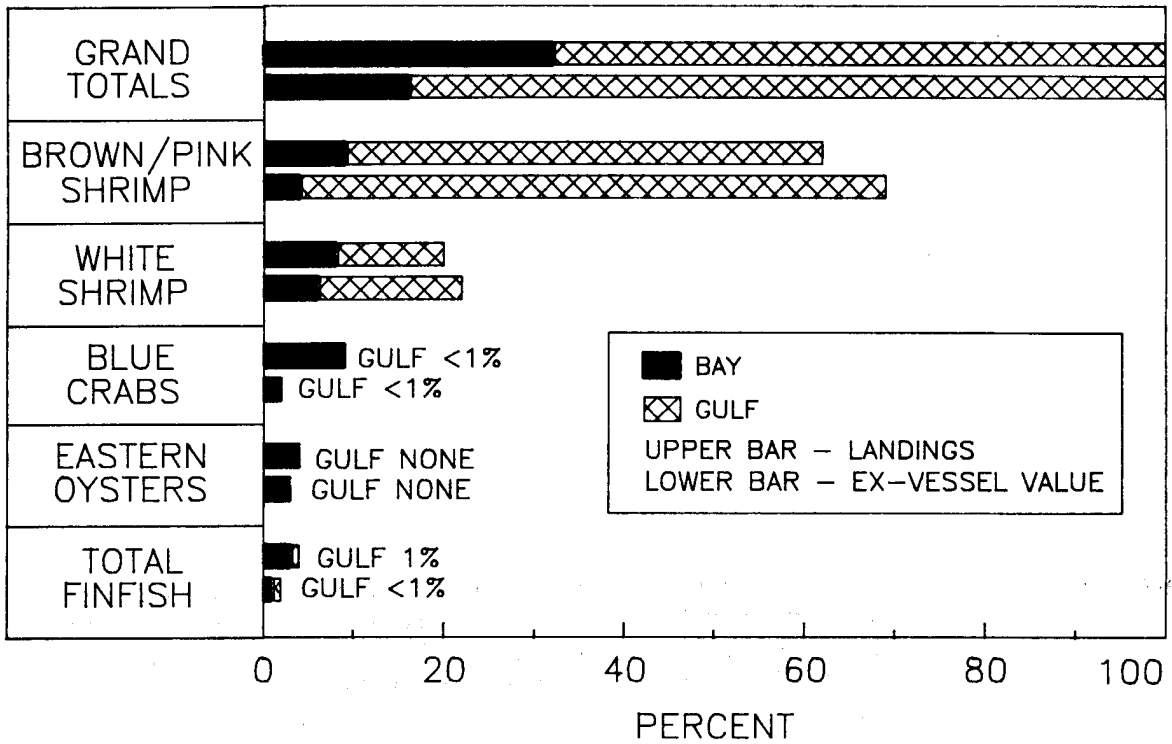
Please Return Report To:  
Texas Parks and Wildlife Department  
Revenue Branch  
4200 Smith School Road  
Austin, Texas 78744

- Figure 7.
- A. A comparison of bay and Gulf, landings and ex-vessel values, for brown/pink and white shrimp, blue crabs, Eastern oysters and all finfish expressed as percents of their respective coastwide totals for 1977 through 1988.
  - B. Texas commercial landings (lb) and ex-vessel values (\$) for all seafood from bays and the Gulf (grand total), by year for 1977 through 1988.

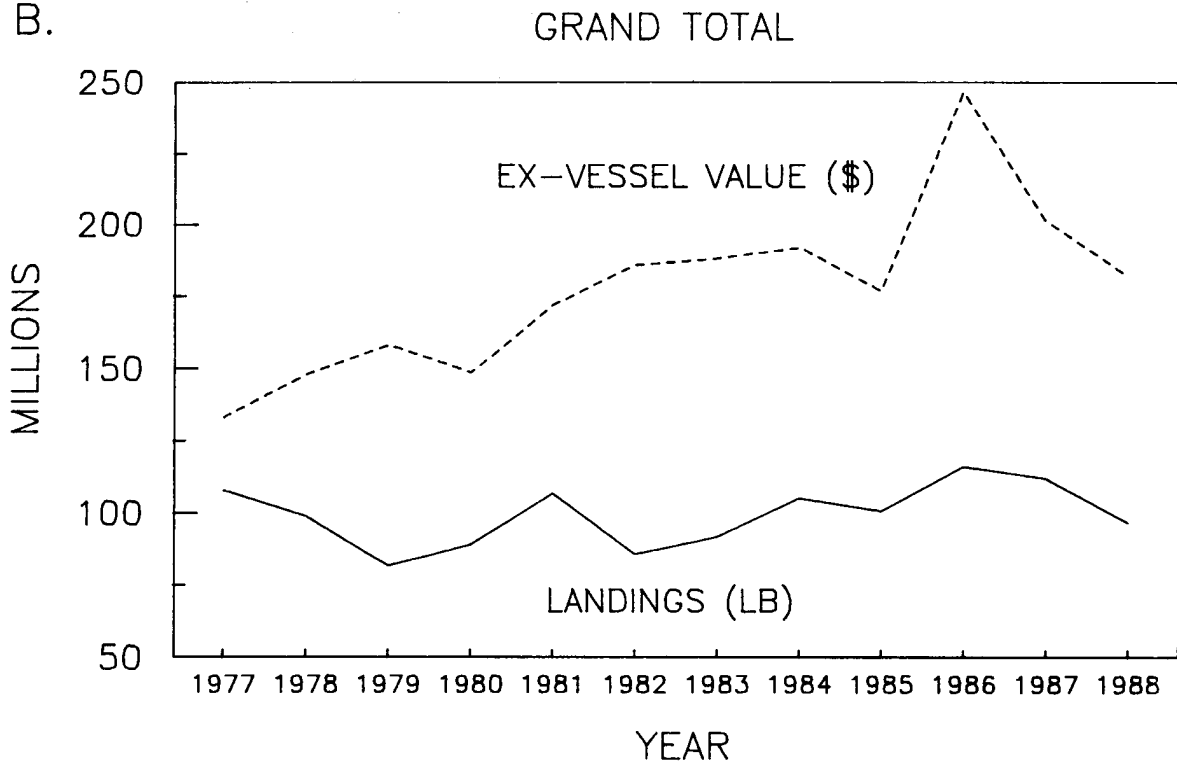
Data for Figure 7 derived from MMPR and NMFS surveys.



A.



B.

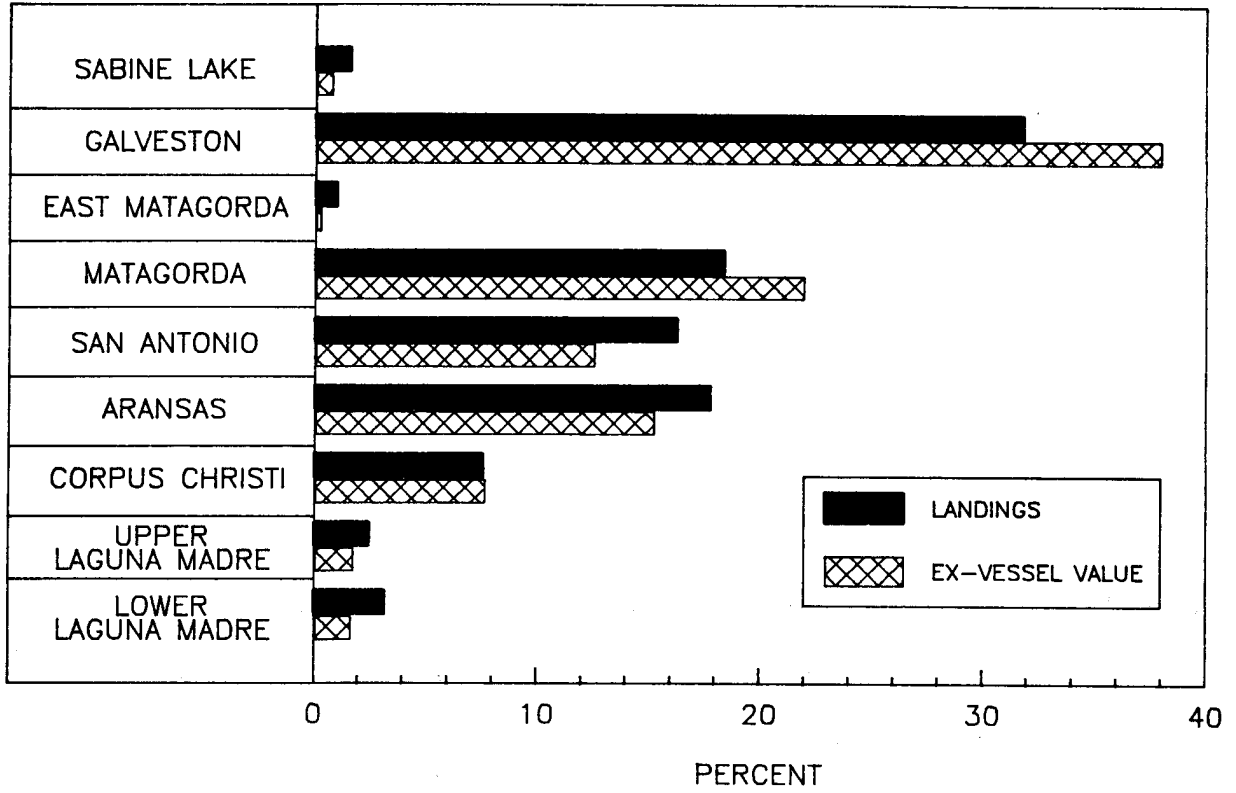


- Figure 8.
- A. Total commercial bay landings and ex-vessel values by bay system as a percent of the total coastwide bay landings for 1977 through 1988.
  - B. A comparison of commercial landings (excluding shrimp) and ex-vessel values for offshore grid zones, expressed as percents of their respective coastwide Gulf totals for 1977 through 1988. 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 and NMFS surveys.

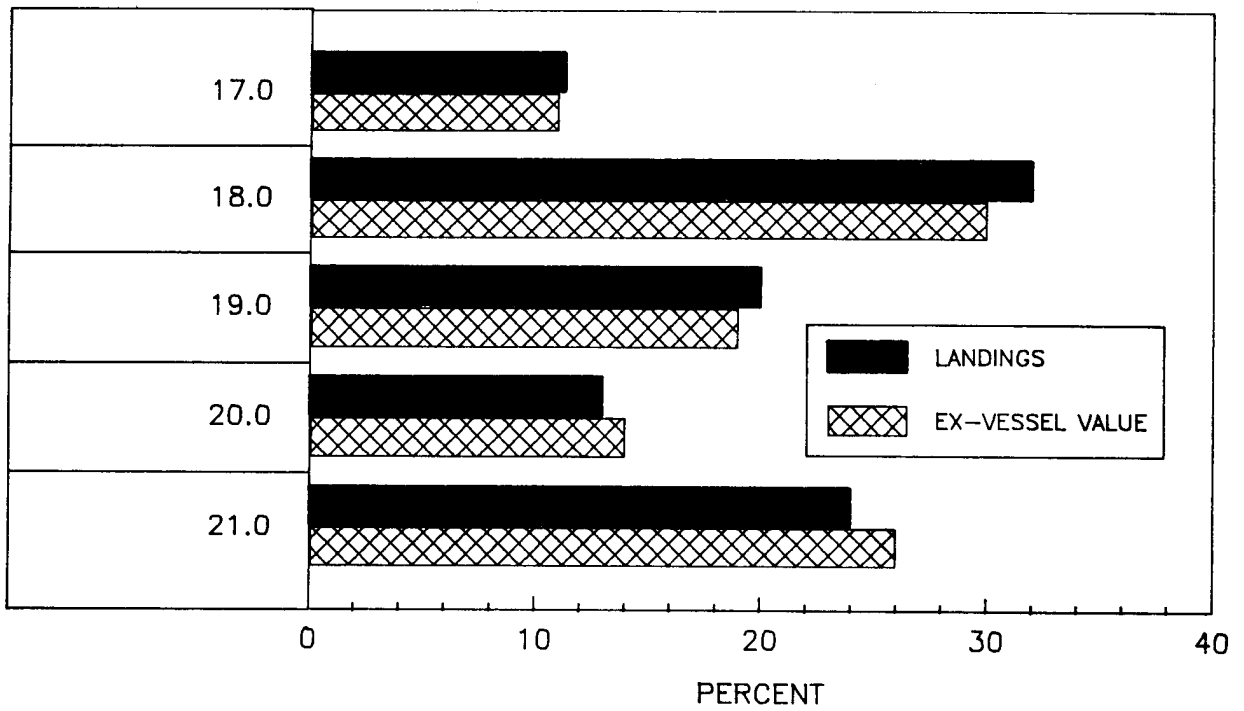
A.

BAY SYSTEM



B.

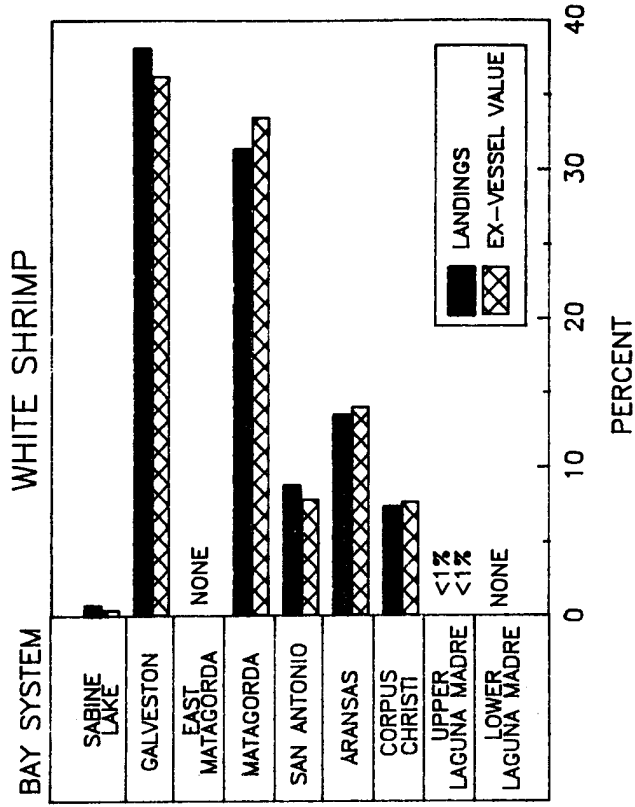
GRID ZONES



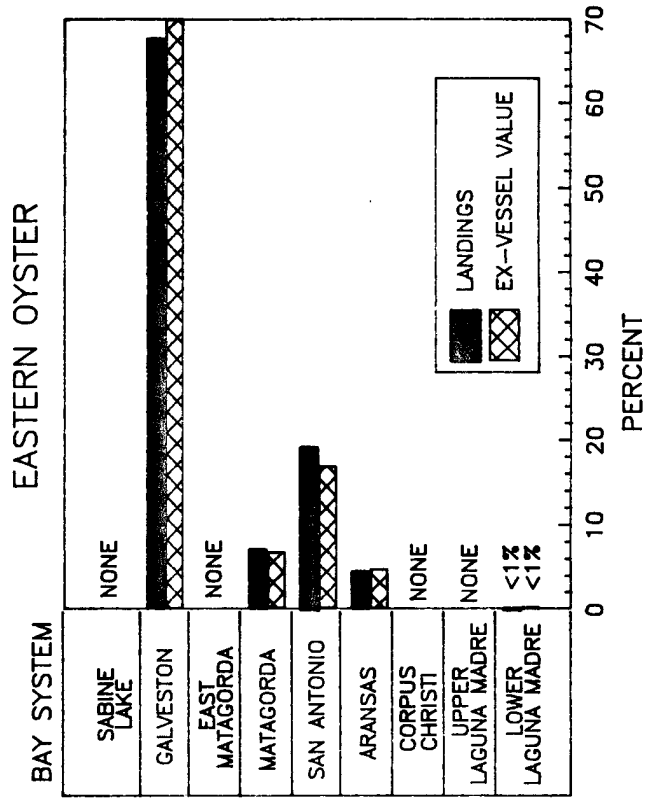
- Figure 9.
- A. A comparison of commercial landings and ex-vessels values of brown and pink shrimp from bay systems for 1977 through 1988.
  - B. A comparison of commercial landings and ex-vessels values of white shrimp from bay systems for 1977 through 1988.
  - C. A comparison of commercial landings and ex-vessels values of blue crabs from bay systems for 1977 through 1988.
  - D. A comparison of commercial landings and ex-vessels values of Eastern oysters from bay systems for 1977 through 1988.

Data for Figure 9 derived from MMPR and NMFS surveys.

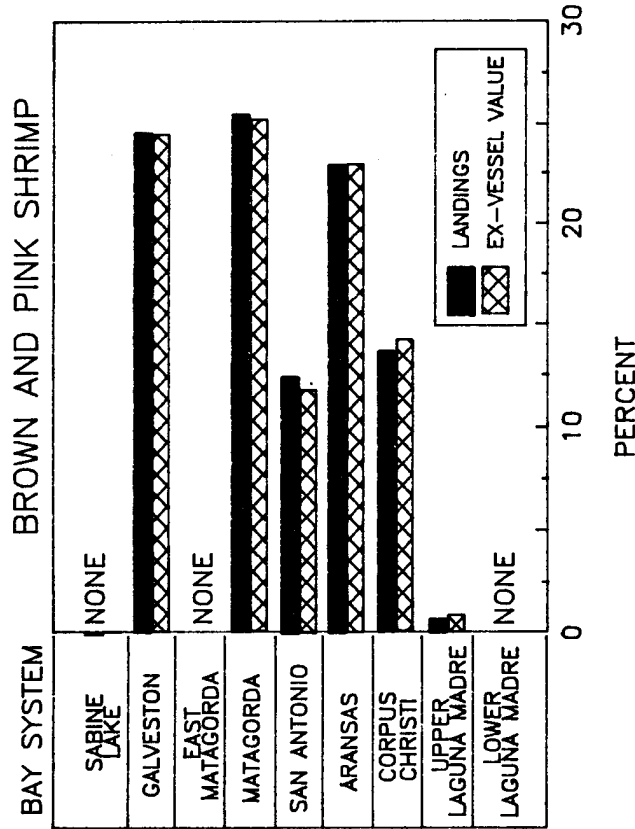
B.



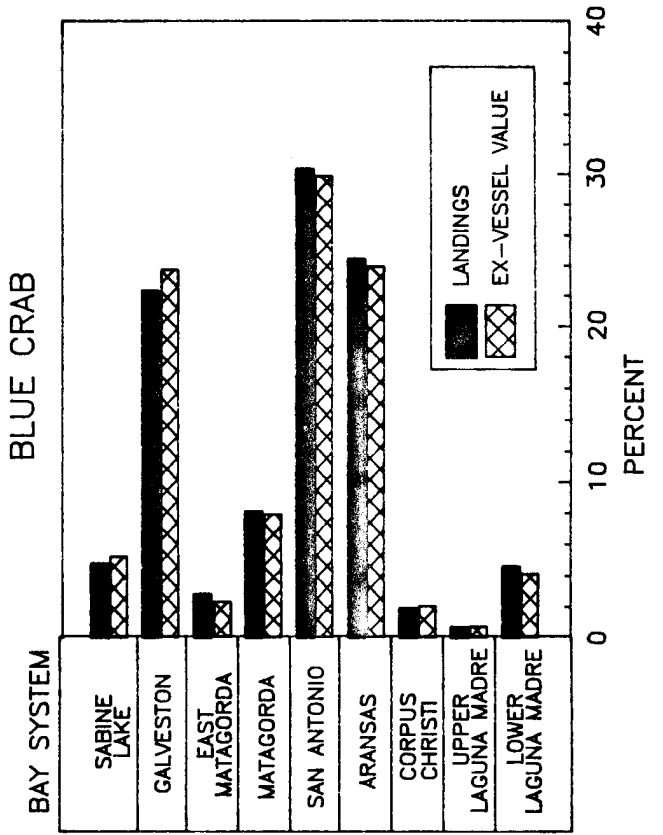
D.



A.



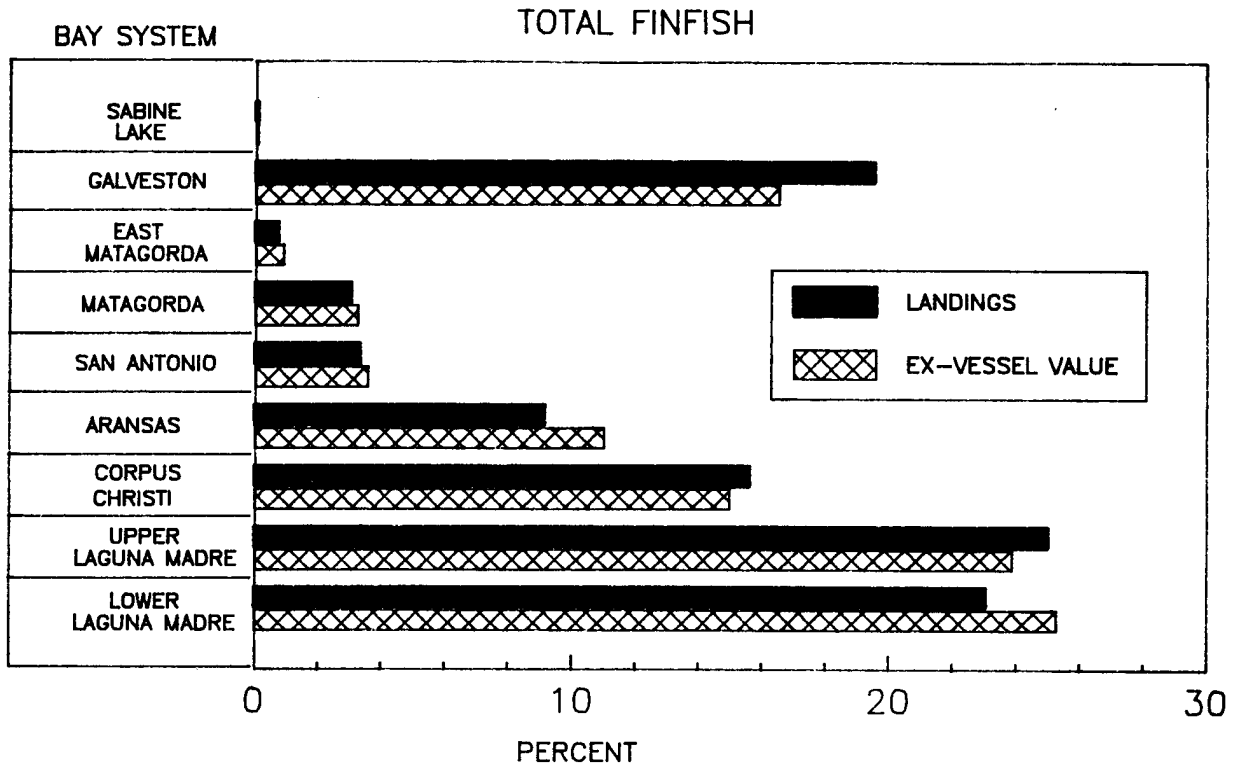
C.



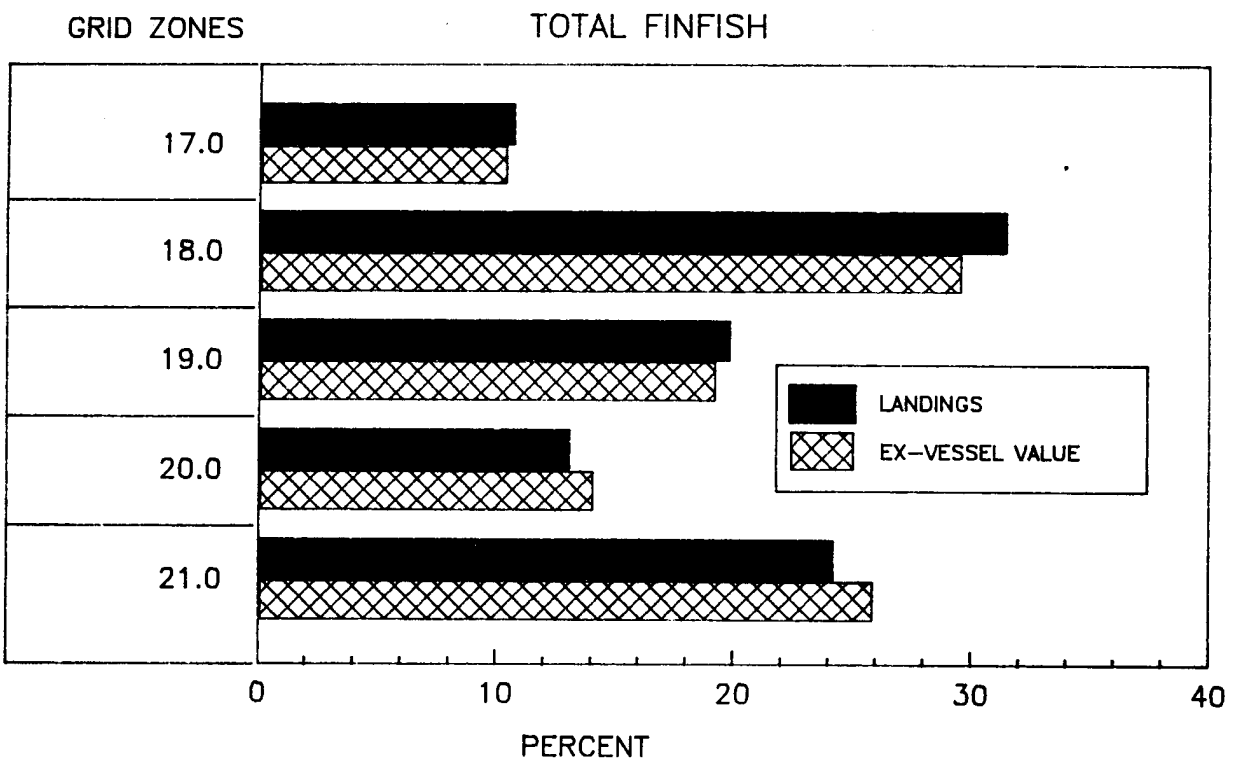
- Figure 10.
- A. A comparison of commercial landings and ex-vessels values of finfish from bay systems for 1977 through 1988.
  - B. A comparison of commercial landings and ex-vessels values of finfish from gulf grid zones for 1977 through 1988.

Data for Figure 10 derived from MMPR and NMFS surveys.

A.

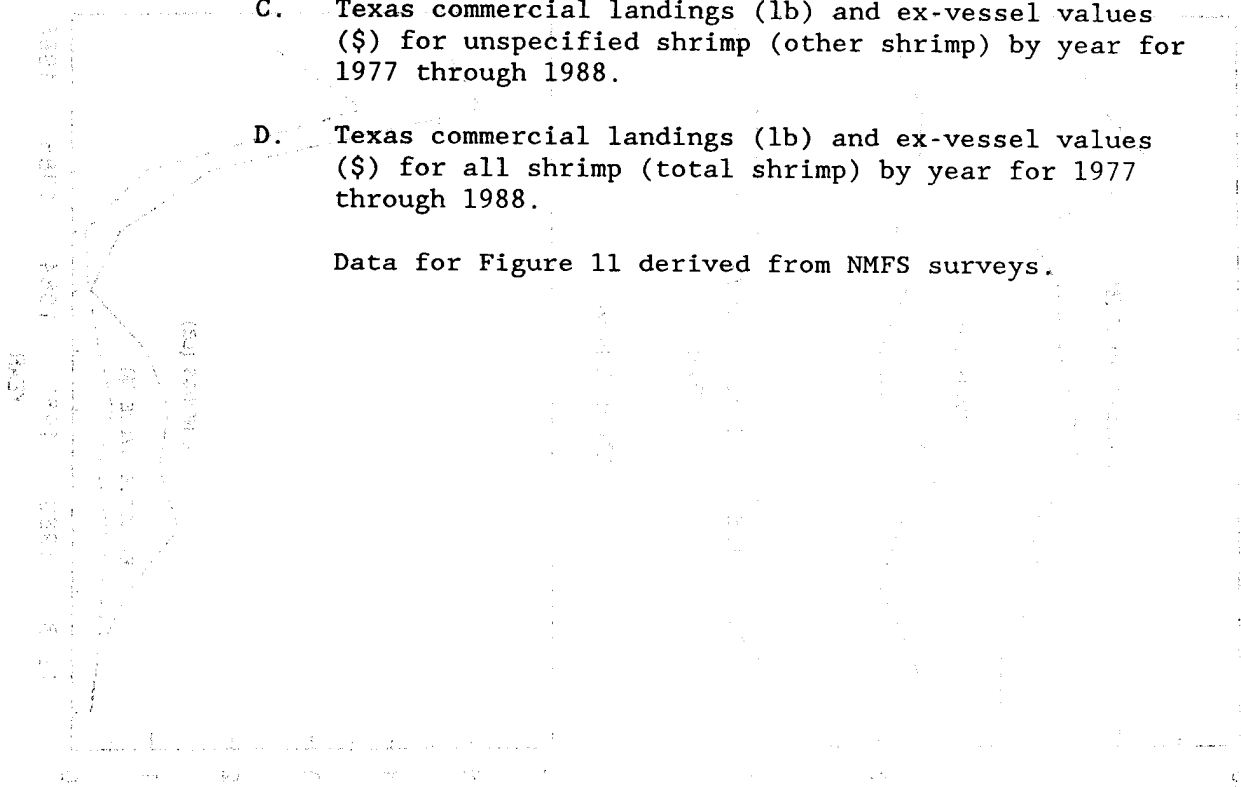


B.

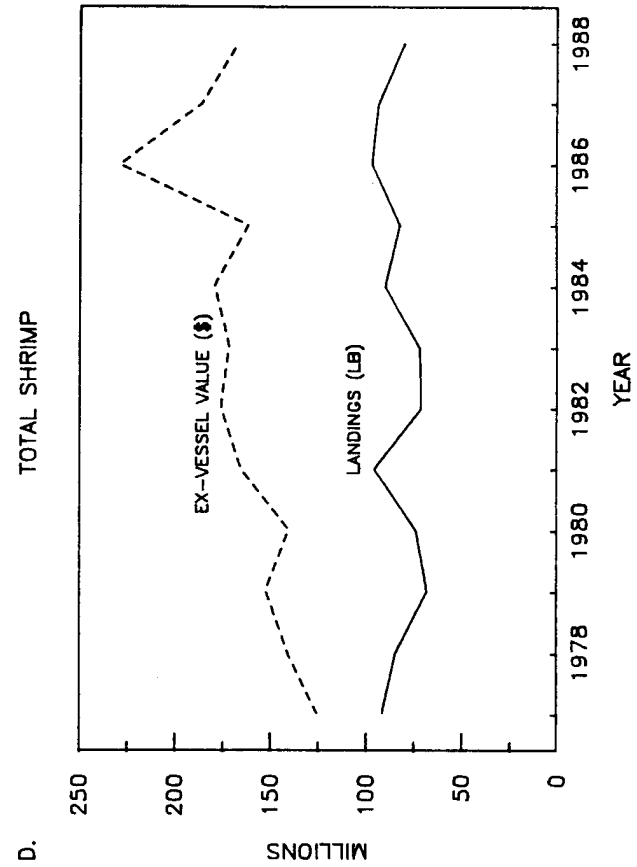
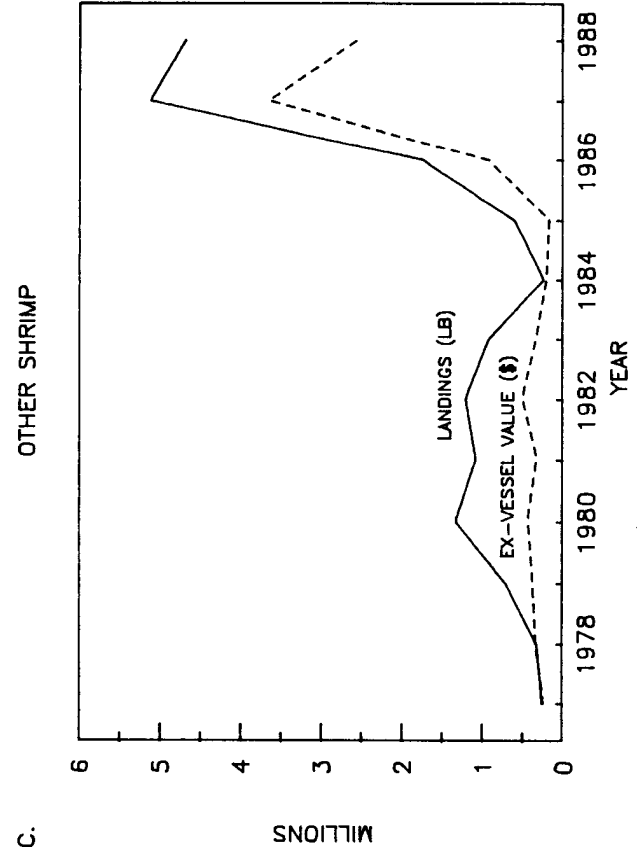
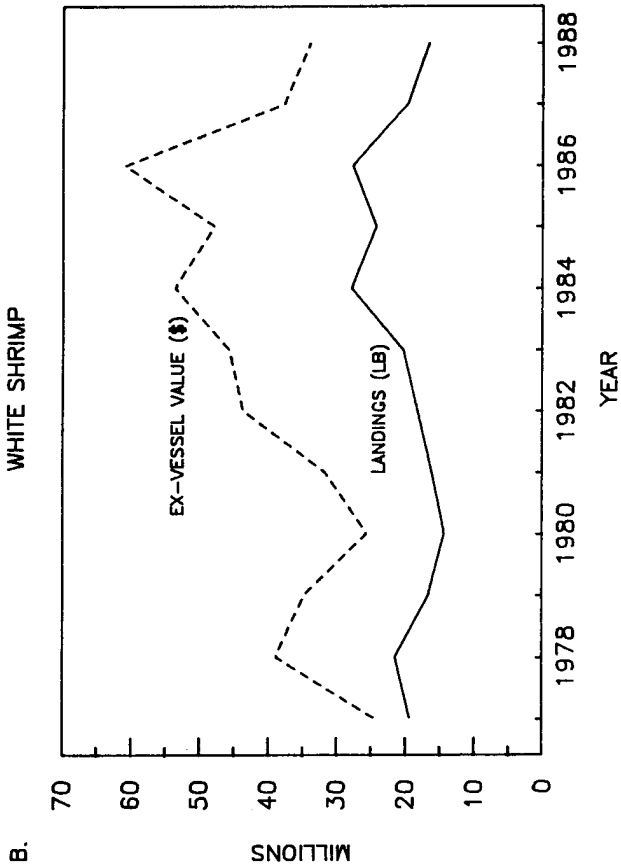
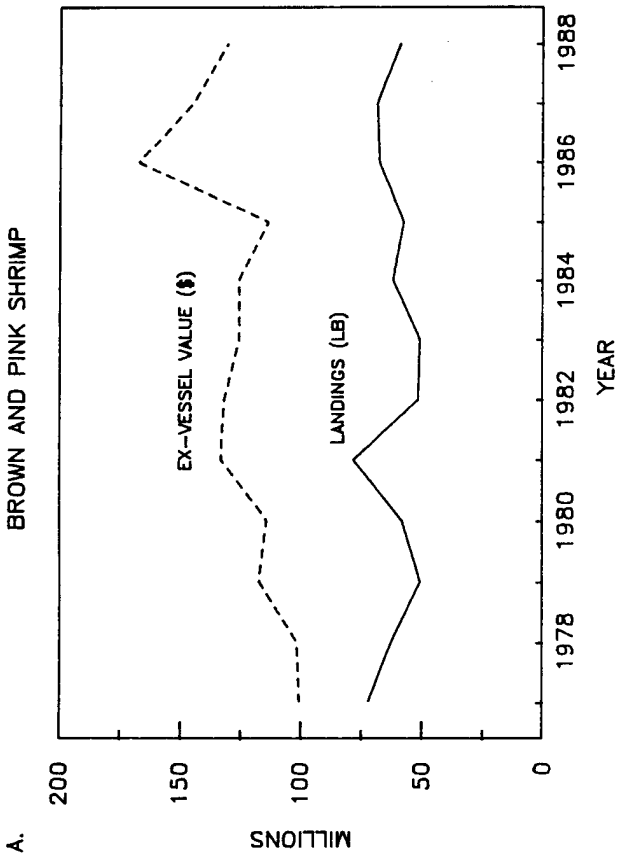


- Figure 11.
- A. Texas commercial brown and pink shrimp landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - B. Texas commercial white shrimp landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - C. Texas commercial landings (lb) and ex-vessel values (\$) for unspecified shrimp (other shrimp) by year for 1977 through 1988.
  - D. Texas commercial landings (lb) and ex-vessel values (\$) for all shrimp (total shrimp) by year for 1977 through 1988.

Data for Figure 11 derived from NMFS surveys.







B.

D.

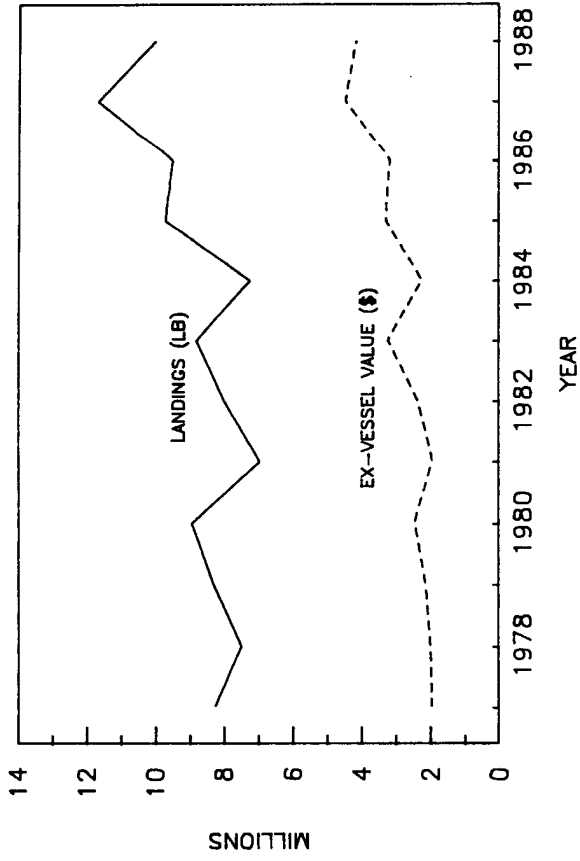
A.

C.

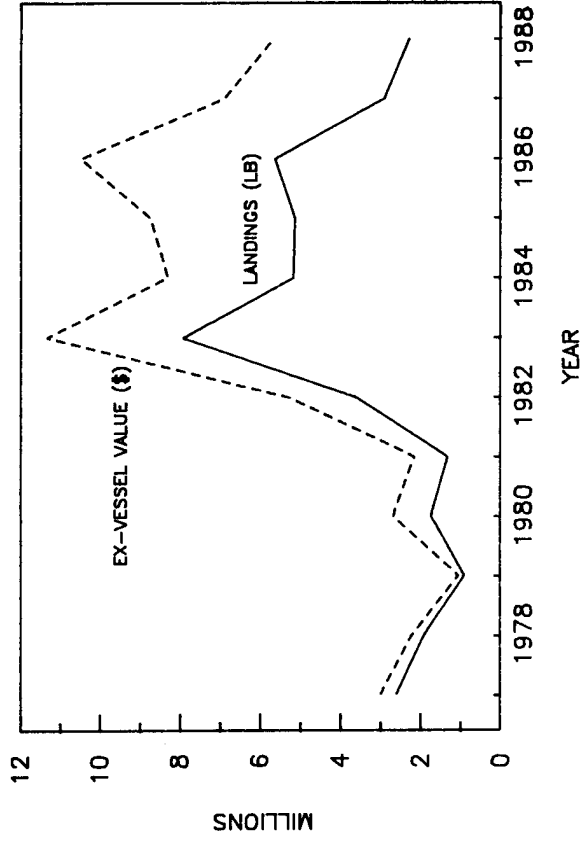
- Figure 12.
- A. Texas commercial blue crab landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - B. Texas commercial Eastern oyster landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - C. Texas commercial landings (lb) and ex-vessel values (\$) of unspecified shellfish (other shellfish) by year for 1977 through 1988.
  - D. Texas commercial landings (lb) and ex-vessel values (\$) of all shellfish (total shellfish) by year for 1977 through 1988.

Data for Figure 12 derived from MMPR and NMFS surveys.

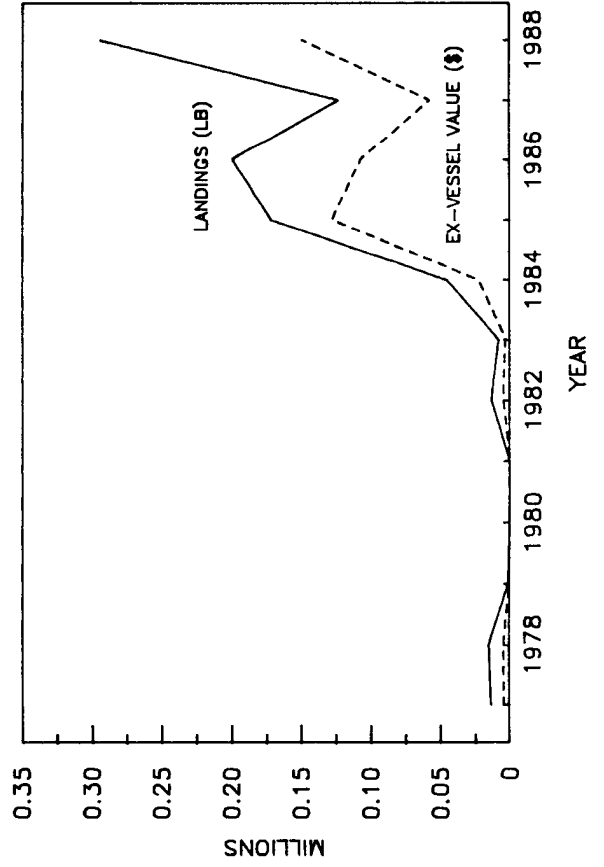
A. BLUE CRABS



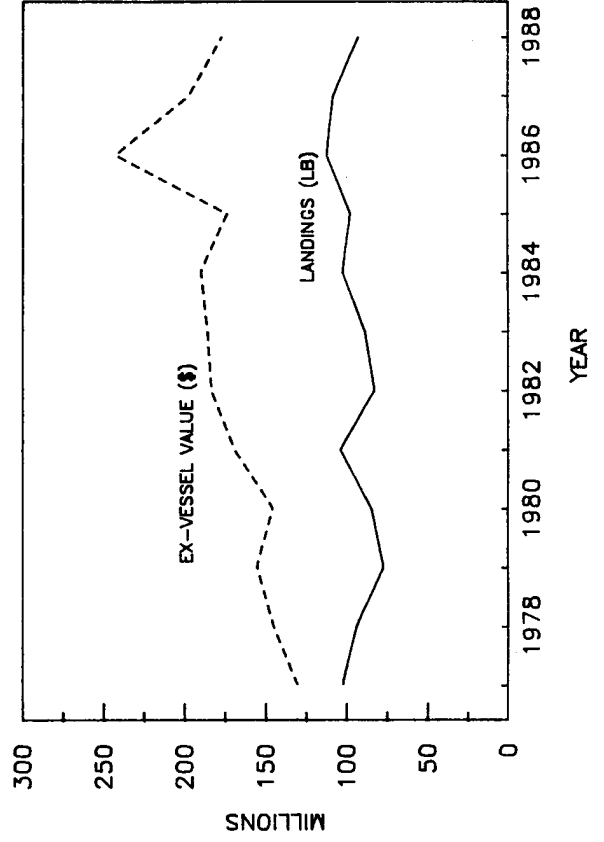
B. EASTERN OYSTER



C. OTHER SHELLFISH

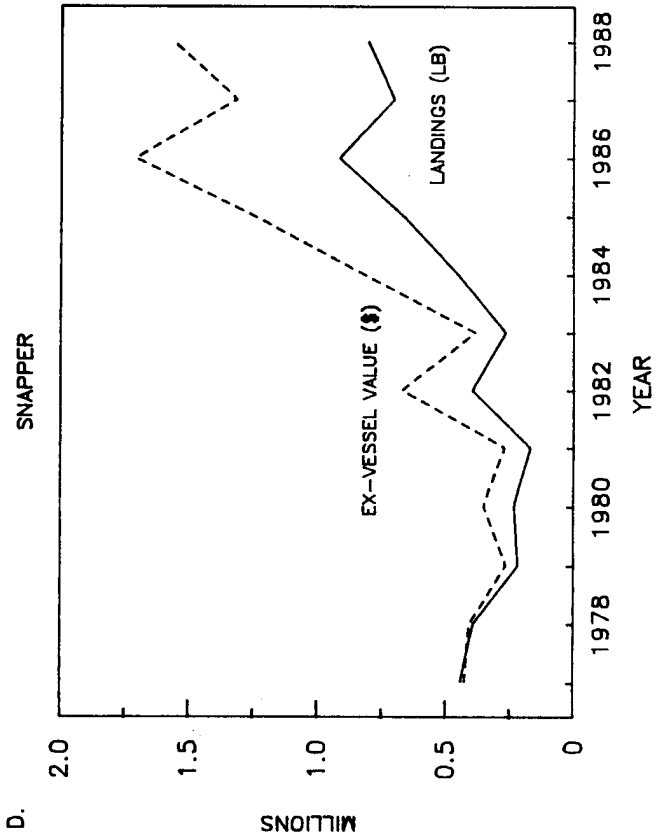
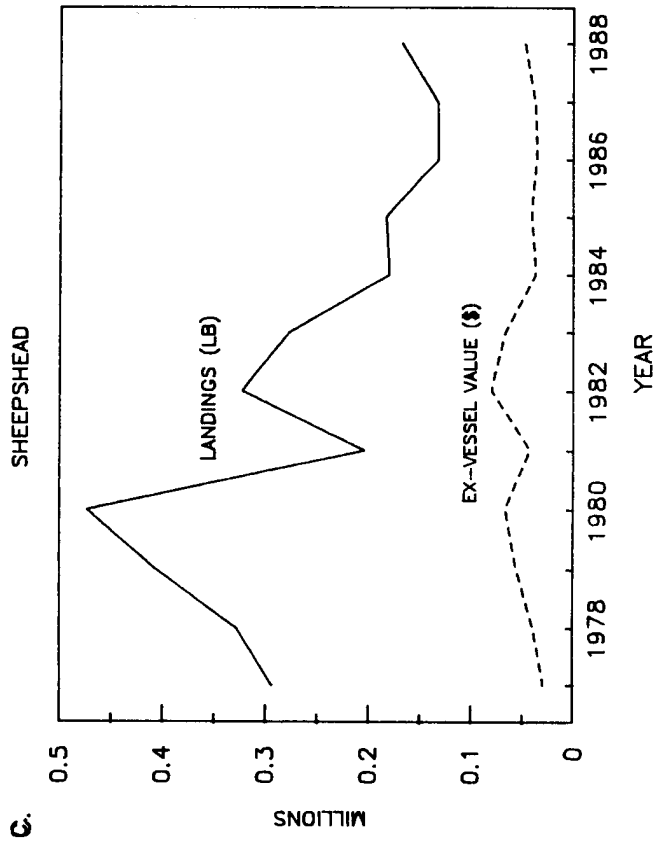
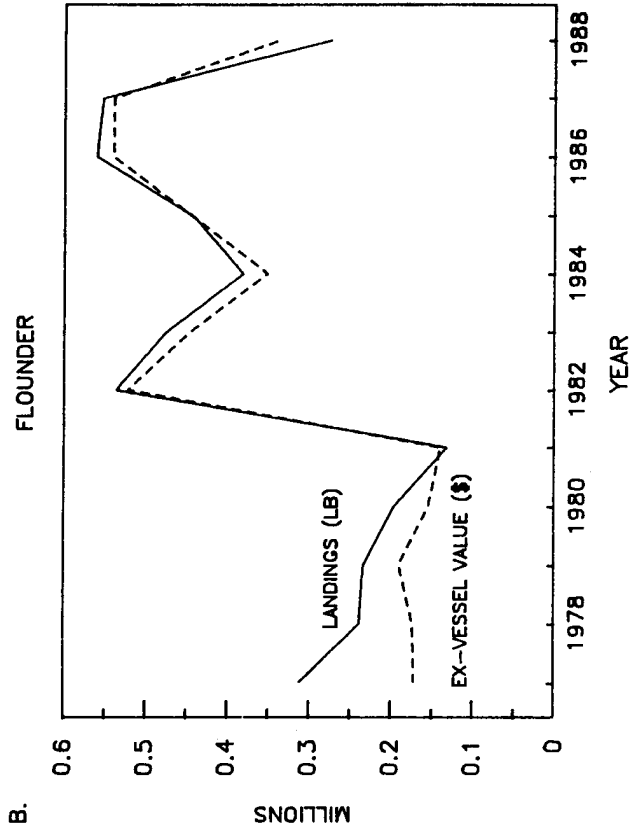
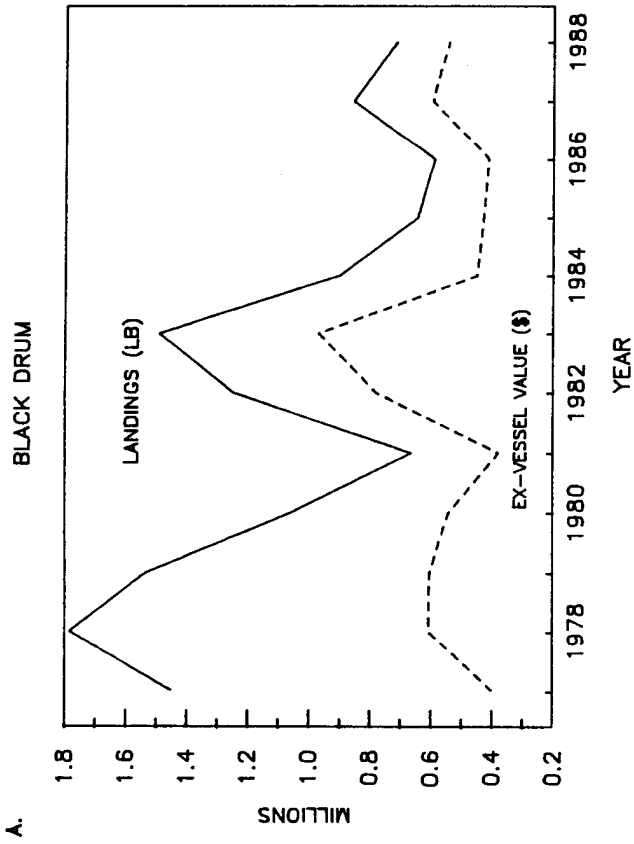


D. TOTAL SHELLFISH



- Figure 13.
- A. Texas commercial black drum landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - B. Texas commercial flounder landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - C. Texas commercial sheepshead landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.
  - D. Texas commercial snapper landings (lb) and ex-vessel values (\$) by year for 1977 through 1988.

Data for Figure 13 derived from MMPR and NMFS surveys.



B.

D.

A.

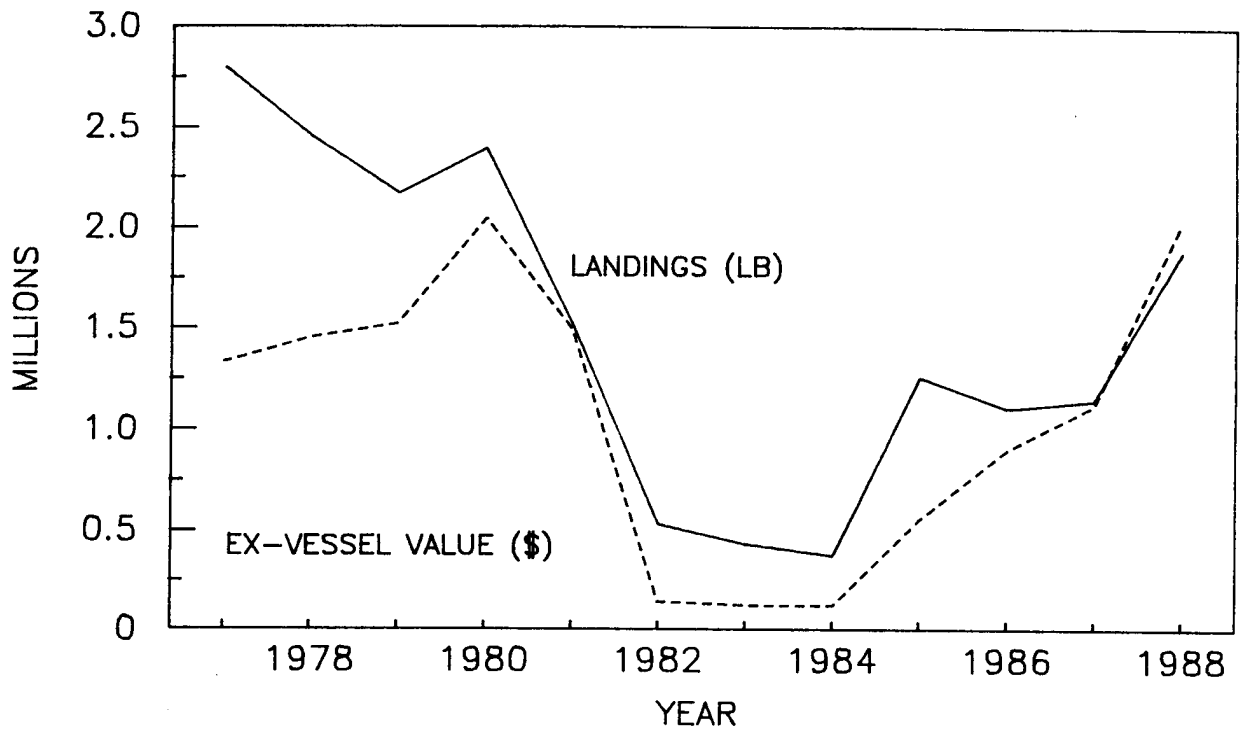
C.

- Figure 14.
- A. Texas commercial landings (lb) and ex-vessel values (\$) of unspecified finfish (other finfish) by year for 1977 through 1988.
  - B. Texas commercial landings (lb) and ex-vessel values (\$) of all finfish (total finfish) by year for 1977 through 1988.

Data for Figure 14 derived from MMPR and NMFS surveys.

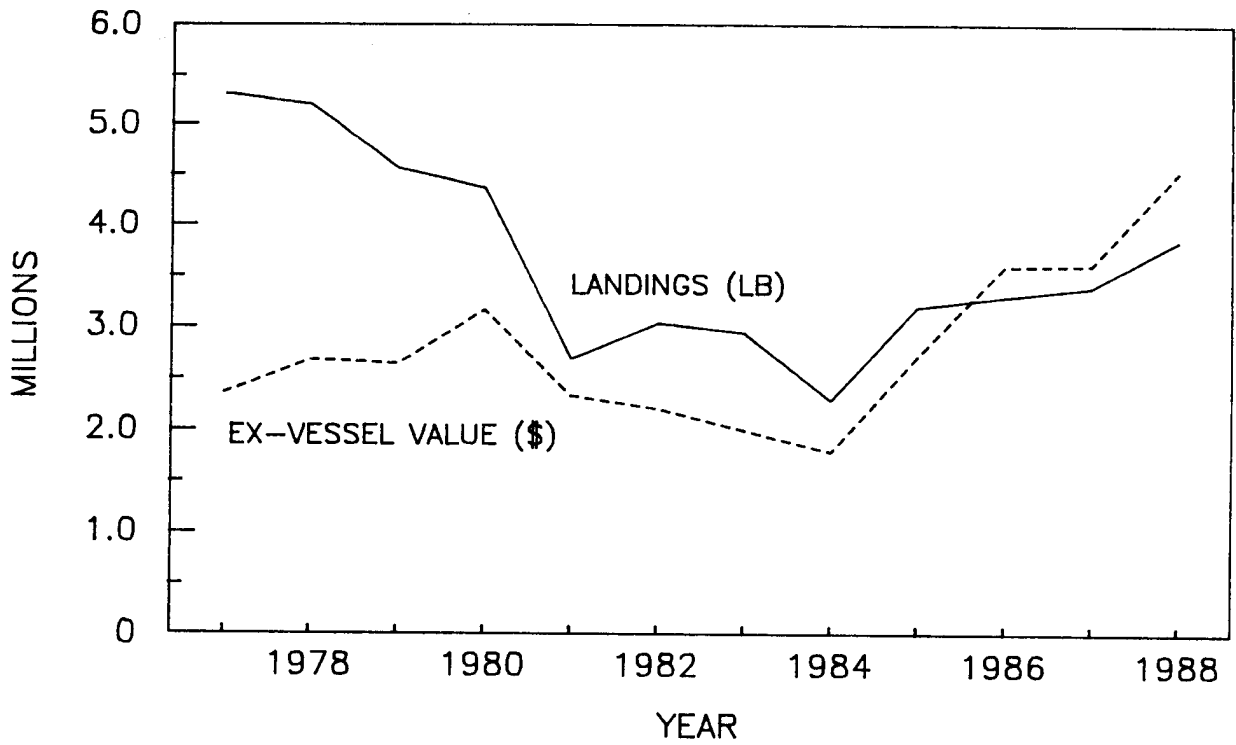
A.

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 1977-1988.**

Table B. 1. Weight (lb) of each species landed commercially from Sabine Lake system during 1977-1988. Data based on MMR and MFS.

Year	Finfish											Shellfish					Grand total							
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap	Total	Shrimp			Brown and pink		White	Other	Total	Blue crab	Eastern oyster	Other	Total
									Food	Other			White	Other	Total									
1977	980	687	0	39	139	37	0	934	0	0	0	2,816	2,336	4,212	9	6,548	226,100	0	0	0	232,648	235,464		
1978	0	330	0	0	59	114	0	0	0	0	0	503	0	2,763	0	2,763	624,171	0	0	0	626,934	627,437		
1979	556	51	9	9	764	60	56	274	0	248	0	2,027	0	0	0	0	163,301	0	0	0	163,301	165,328		
1980	48	78	124	0	627	240	60	1,776	50	30	3,033	1,099	49,900	4,668	55,667	70,089	0	0	0	125,756	128,789			
1981	219	119	0	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	0	0	0	170,835	488	171,323	113,443	0	0	0	284,766	284,766	
1983	379	567	0	0	430	1,201	0	0	0	140	2,717	0	740	0	740	172,874	0	0	0	173,614	176,331			
1984	244	176	0	0	1,588	0	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	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	0	1,874	914	0	258	0	0	5,256	539	7,925	0	8,464	1,345,792	0	0	763	1,355,019	1,360,275			
1987	153	2,527	0	655	2,349	421	0	1,296	200	425	8,026	203	173,190	0	173,393	626,999	0	130	0	800,522	808,548			
1988	132	1,676	50	80	2,424	125	0	1,800	0	0	6,287	13,101	348,217	676	361,994	443,171	0	65	0	805,230	811,517			

Table B. 2. Ex-vessel value (\$) of each species landed commercially from Sabine Lake system during 1977-1988. Data based on MMR and MFS.

Year	Finfish											Shellfish					Grand total							
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food		Scrap	Total	Shrimp			Brown and pink		White	Other	Total	Blue crab	Eastern oyster	Other	Total
									Food	Other			White	Other	Total									
1977	281	424	0	8	34	7	0	555	0	0	0	1,309	1,098	2,529	0	3,627	57,906	0	0	0	61,533	62,842		
1978	0	166	0	0	12	23	0	0	0	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	0	0	49,330	0	0	0	49,330	49,979			
1980	24	43	55	0	166	69	28	1,374	20	8	1,787	1,113	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	0	46,879	29,574	0	0	0	76,453	77,066			
1982	0	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	0	94	254	0	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	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	0	10,747	231,323	0	0	0	242,070	245,532			
1986	104	1,957	0	0	777	274	0	155	0	0	3,267	302	3,931	0	4,233	456,437	0	0	306	460,976	464,243			
1987	61	2,523	0	542	992	149	0	1,030	30	65	5,392	374	151,207	0	151,581	236,766	0	59	0	388,406	393,798			
1988	124	1,668	30	20	1,017	51	0	1,800	0	0	4,710	8,084	279,950	309	288,343	183,959	0	0	0	472,335	477,045			

Table B. 3. Weight (lb) of each species landed commercially from the Galveston Bay system during 1977-1988. 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	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	9,027,227	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 <sup>a</sup>	76,456	627,334	1,651,048	2,638,555	0	4,289,603	2,167,937 <sup>b</sup>	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	4,632	14,809	59,547	443,345	3,091,385	3,811,662	1,441	6,904,488	2,786,933	2,174,865	40,565	11,906,851	13,350,196
1988	61,297	47,299	13,809	3,262	73,893	1,588	64,553	6,872	15,125	206,282	493,980	3,454,171	3,085,281	2,889	6,542,341	3,118,874	1,452,365	56,193	11,169,773	11,663,753

<sup>a</sup>Includes 926 lb of sharkfins<sup>b</sup>Includes 867 lb of soft shell crabs

Table B. 4. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system during 1977-1988. 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	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	6,907,689	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	521,588	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 <sup>a</sup>	7,156	312,935	1,324,169	2,964,202	0	4,288,371	829,473 <sup>b</sup>	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	3,689	5,481	7,542	288,279	2,735,923	4,918,323	642	7,654,888	1,250,747	5,376,959	19,232	14,301,826	14,590,105
1988	55,643	55,457	3,307	1,038	17,798	545	10,690	3,765	4,003	73,894	226,140	3,837,344	4,185,904	1,478	8,024,726	1,517,520	3,921,794	25,106	13,489,146	13,715,286

<sup>a</sup>Includes \$4,630 of sharkfins<sup>b</sup>Includes \$637 of soft shell crabs

Table B.5. Weight (lb) of each species landed commercially from the Matagorda Bay system during 1977-1988. Data based on MMPR and MIFS.

Year	Finfish											Shellfish											Grand total
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food			Scrap	Total	Shrimp <sup>a</sup>			Blue crab	Eastern oyster	Other	Total			
									Sheepshead	Kingfish	Mullet			White	Other	Total					White	Other	
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			
1988	2,249	2,790	0	110	421	25	0	37	0	0	5,632	2,452,358	1,861,817	0	4,314,175	740,685	521,057	8,900	5,584,817	5,590,449			

MIFS 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 1977-1988. Data based on MMPR and MIFS.

Year	Finfish											Shellfish											Grand total
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food			Scrap	Total	Shrimp <sup>a</sup>			Blue crab	Eastern oyster	Other	Total			
									Sheepshead	Kingfish	Mullet			White	Other	Total					White	Other	
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	6,099,685			
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	338,769	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			
1988	1,722	3,464	0	96	208	13	0	22	0	0	5,525	2,165,626	3,021,326	0	5,186,952	276,722	1,023,268	5,617	6,492,559	6,498,084			

\*\* Matagorda Bay system Shrimp landings as combined with Matagorda Bay system shrimp landings.

Table B.7. Value (\$) of each species landed commercially from the East Matagorda Bay system during 1977-1988. Data based on NMFS and NMFS.

Year	Finfish													Shellfish					Grand total	
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Brown and pink	Shrimp <sup>a</sup>			Blue crab	Eastern oyster	Other		Total
									Total	White	Other		White	Other	Total					
1977	9,339	3,497	30	0	2,938	0	0	40,991	0	14,025	70,820	0	0	0	309,689	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	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	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	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	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	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	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	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	157,482	2,468	0	159,950	159,994	
1986	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	175	1,383	0	1,558	7,638	
1988	742	778	0	0	197	511	0	0	0	0	2,228	0	0	0	227	893	235	1,355	3,583	

<sup>a</sup>NMFS 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 1977-1988. Data based on NMFS and NMFS.

Year	Finfish													Shellfish					Grand total	
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food Scrap			Brown and pink	Shrimp <sup>a</sup>			Blue crab	Eastern oyster	Other		Total
									Total	White	Other		White	Other	Total					
1977	2,556	2,112	9	0	709	0	0	24,164	0	1,403	30,953	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	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	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	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	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	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	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	73,935	96,489	519	170,943	174,494	
1985	0	53	0	0	0	0	0	0	0	0	53	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	900	0	0	900	900	
1987	2,559	4,031	0	27	54	0	0	0	0	0	6,671	0	0	0	70	2,294	0	2,364	9,035	
1988	650	1,362	0	0	100	166	0	0	0	0	2,278	0	0	0	114	1,836	81	2,031	4,209	

<sup>a</sup>NMFS reports East Matagorda Bay system shrimp landings as combined with Matagorda Bay system shrimp landings.

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Table B. 9. Weight (lb) of each species landed commercially from the San Antonio Bay system during 1977-1988. 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	White	Other	Total		Blue crab	Eastern oyster	Other	Total
									Atlantic croaker	Kingfish	Mullet	Other	Unclassified Food	Scrap									
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	1,868,963	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			
1988	4,396	31,195	0	1,354	2,093	0	0	966	385	0	40,389	1,989,771	616,310	22	2,606,103	2,741,866	8,927	132	5,357,028	5,397,417			

Table B. 10. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system during 1977-1988. 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	White	Other	Total		Blue crab	Eastern oyster	Other	Total
									Atlantic croaker	Kingfish	Mullet	Other	Unclassified Food	Scrap									
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	221,690	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	1,383	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			
1988	3,728	40,199	0	452	718	0	0	676	231	0	46,004	1,698,376	959,655	22	2,658,063	1,056,825	22,308	33	3,737,229	3,783,233			



Table B.11. Weight (lb) of each species landed commercially from the Arkansas Bay system during 1977-1988. 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
									Food	Scrap	Total		Brown and pink	White	Other					
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	433,189	32,432	6,614,090	6,812,877
1988	37,447	27,885	14	1,564	3,917	0	1,178	924	5,599	1,129	79,657	2,789,878	1,050,430	0	3,840,308	2,571,932	276,385	175,450	6,864,075	6,943,732

Table B.12. Ex-vessel value (\$) of each species landed commercially from the Arkansas Bay system during 1977-1988. 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
									Food	Scrap	Total		Brown and pink	White	Other					
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	944,903	17,650	7,064,014	7,179,485
1988	27,516	40,973	3	196	1,253	0	193	457	14,378	56	85,025	2,332,006	1,569,031	0	3,901,037	964,105	676,681	89,207	5,631,030	5,716,055

Table B.13. Weight (lb) of each species landed commercially from the Corpus Christi Bay system during 1977-1988. 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	Shrimp		Brown and pink	White	Other	Total	Blue crab		Eastern oyster	Other	Total
										Total	Other									
1977	199,848	49,128	3,206	14,989	116,863	57	73	151,054	0	535,218	738,572	567,956	0	1,306,528	102,750	0	0	0	1,409,278	1,944,496
1978	400,845	44,879	1,900	4,998	126,860	0	0	251,294	889	831,665	910,075	521,680	0	1,431,755	9,307	0	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	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	1,398,566
1983	105,884	74,422	7,763	1,247	87,195	0	0	176	0	0	276,687	1,135,421	466,130	0	1,601,551	231,757	0	35	1,833,343	2,110,030
1984	64,620	32,236	0	599	31,185	0	1,515	24	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
1985	29,309	86,770	4,115	3,087	39,254	31	4,422	198	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
1986	58,969	120,588	2	1,525	20,443	0	358	110	203	22,080	224,278	993,964	611,059	0	1,605,023	877,180	0	43,560	2,525,763	2,750,041
1987	105,461	65,419	18,877	1,244	21,379	0	0	4,248	0	341	216,969	1,309,794	764,332	0	2,074,126	267,622	403	18,302	2,360,453	2,577,422
1988	132,638	32,995	0	1,610	59,512	0	0	449	226	0	227,430	981,943	463,379	0	1,445,322	202,774	175	37,377	1,685,648	1,913,078

Table B.14. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system during 1977-1988. 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	Shrimp		Brown and pink	White	Other	Total	Blue crab		Eastern oyster	Other	Total
										Total	Other									
1977	59,310	29,921	334	1,482	7,736	3	4	89,617	0	188,407	301,665	442,067	0	743,732	25,810	0	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	0	166,037	1,419,771	896,636	0	2,316,407	93,369	0	18	2,409,794	2,575,831
1984	39,853	30,914	0	179	5,987	0	170	23	0	45	77,171	1,935,026	1,989,797	0	3,924,823	27,079	0	508	3,952,410	4,029,581
1985	23,816	82,572	826	958	7,759	2	444	187	139	1,156	117,859	1,016,137	366,652	0	1,382,789	44,690	0	59,735	1,487,414	1,605,273
1986	26,612	108,502	1	256	4,762	0	45	57	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
1987	61,087	62,051	7,551	124	5,478	0	0	473	0	136	136,910	1,710,234	1,193,496	0	2,903,730	102,023	1,449	8,311	3,015,513	3,152,423
1988	115,127	40,553	0	783	17,567	0	0	320	267	0	174,617	1,025,840	629,518	0	1,655,358	80,748	500	22,319	1,758,925	1,933,542

Table B.15. Weight (lb) of each species landed commercially from the upper Laguna Madre system during 1977-1988. 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			Brown and pink	Blue crab	Eastern oyster		Other	Total
									Food	Scrap		White	Other	Total						
1977	519,296	5,205	104	23	41,537	0	495	320,747	32	0	887,439	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	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	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	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	651,471
1982	778,749	21,881	16	0	60,695	0	0	296	0	0	861,637	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	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	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	172,326	92,515	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	81,146	76,286	0	310	157,742	505,143
1987	335,407	10,847	55	622	5,152	0	0	0	0	0	352,083	240,689	644	0	241,333	179,427	0	165	420,925	773,008
1988	188,508	4,969	2	0	4,810	0	0	1,803	0	0	200,092	268,061	2,929	0	270,990	102,815	438	96	374,339	574,431

Table B.16. Ex-vessel value (\$) of each species landed commercially from the upper Laguna Madre system during 1977-1988. 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			Brown and pink	Blue crab	Eastern oyster		Other	Total
									Food	Scrap		White	Other	Total						
1977	165,429	3,278	10	3	3,130	0	50	186,747	8	0	358,655	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	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	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	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	505,792
1982	535,031	24,167	4	0	16,936	0	0	347	0	0	576,485	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	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	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	109,076	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	95,965	26,274	0	155	122,394	374,458
1987	282,557	9,908	16	162	1,677	0	0	0	0	0	294,320	350,840	1,318	0	352,158	74,900	0	58	427,116	721,436
1988	163,051	7,506	1	0	2,083	0	0	2,074	0	0	174,715	298,948	4,023	0	302,971	42,507	1,250	67	346,795	521,510

Table B.17. Weight (lb) of each species landed commercially from the lower Laguna Madre system during 1977-1988. Data based on MPR and IMFS.

Year	Finfish											Shellfish				Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food	Scrap	Total	Shrimp			Total				
												Brown and pink	White	Other					
1977	378,258	35,255	17,121	147	27,603	0	0	878,924	836	22,071	1,360,215	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	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	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	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	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	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	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	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	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	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	206,519	4,081	1,792	212,392	452,964
1988	78,463	58,755	237	0	2,658	150	0	3,989	11,153	0	155,405	0	0	0	700	9,069	0	9,769	165,174

Table B.18. Ex-vessel value (\$) of each species landed commercially from the lower Laguna Madre system during 1977-1988. Data based on MPR and IMFS.

Year	Finfish											Shellfish				Grand total			
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Other	Unclassified Food	Scrap	Total	Shrimp			Total				
												Brown and pink	White	Other					
1977	84,443	16,294	1,056	30	2,138	0	0	421,397	93	5,518	530,969	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	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	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	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	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	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	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	102,235	6415	0	108,650	200,591
1985	122,416	24,370	0	0	670	579	10	7,046	4,105	0	150,998	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	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	53,316	8,446	2,165	63,927	225,317
1988	53,266	86,518	47	0	664	150	0	16,730	0	0	160,406	0	0	0	734	21,545	0	22,279	182,685

Appendix C. Weight (lb) and ex-vessel value (\$) of commercial finfish and shellfish, except shrimp, landings from the Gulf of Mexico grid zones during 1977-1988.

Table C.1. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1977-1988. 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	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	29,444
1979	114	1,176	0	77	587	418	0	0	0	3,222	3,277	0	0	8,871	100	0	100	8,971
1980	113	3,619	352	0	471	3,668	0	0	582	825	312	71	276	10,289	3,149	0	3,149	13,438
1981	71	2,816	29	562	532	1,250	619	0	4	235	129	0	0	6,762	5,860	0	5,860	12,662
1982	62	4,010	35	31	1,450	1,923	0	0	0	0	0	0	142	7,653	2,555	114	2,669	10,332
1983	247	3,715	8	23	474	1,082	0	0	0	5,549	0	468	860	12,426	5,355	150	5,505	17,931
1984	307	4,112	33	0	171	453	0	0	199	6,102	0	0	480	11,857	962	200	1,162	13,019
1985	20	9,021	0	52	194	2,828	0	0	14,515	17,193	3,738	1,021	425	49,007	2,211	71	2,282	51,289
1986	1,735	15,135	0	832	2,721	1,897	0	337	26,573	107,410	21,065	276	870	178,851	29,910	5,467	35,377	214,228
1987	49,541	30,645	1,004	3,868	12,525	12,934	0	766	5,203	63,586	8,078	0	1,529	189,679	19,365	4,720	24,085	213,764
1988	161,158	19,457	590	2,101	4,566	13,934	0	275	46,827	35,649	510,491	0	26	795,074	33,424	6,188	39,612	834,686

Table C.2. Ex-vessel value (\$) of each species, except shrimp, landed commercially in Gulf of Mexico grid zone 17.0 during 1977-1988. 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	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	8,048
1979	23	622	0	15	139	66	0	0	0	4,280	3,943	0	0	9,088	30	0	30	9,118
1980	16	2,242	36	0	53	463	0	0	262	1,170	197	18	42	4,499	694	0	694	5,193
1981	17	1,562	7	112	142	150	71	0	1	458	90	0	123	2,733	1,520	0	1,520	4,253
1982	21	2,236	9	8	302	315	0	0	0	0	0	0	26	2,917	742	46	788	3,705
1983	70	2,224	3	6	106	181	0	0	0	9,062	0	70	120	11,842	2,545	60	2,605	14,447
1984	94	3,316	8	0	38	91	0	0	328	11,051	0	0	72	14,998	333	140	473	15,471
1985	5	7,180	0	14	49	1,154	0	0	21,108	33,148	2,646	348	63	65,715	888	28	916	66,631
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	295,214
1987	36,173	26,222	479	860	4,003	3,800	0	669	7,907	119,169	6,236	0	231	205,749	7,886	2,091	9,977	215,726
1988	77,571	17,516	177	410	2,099	4,344	0	275	58,509	70,400	729,216	0	13	960,530	14,684	3,010	17,694	978,224

Table C.3. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish			Grand total				
	Black drum	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	215,062	19,929	3,905	736,971	2,816	6,989	9,805	746,776
1988	1,135	1,748	901	132	2,175	4,847	0	757	169,093	180,803	99,981	29,969	285	491,826	8,126	618	8,744	500,570

Table C.4. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish			Grand total				
	Black drum	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	461,836	5,003	762	1,274,596	938	2,793	3,731	1,278,327
1988	432	2,312	314	41	773	2,843	0	580	285,693	401,668	100,748	12,446	106	808,217	3,825	211	4,036	812,253

Table C.5. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1977-1988. 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	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	44,147	26,621	683	3,664	126,129	14,409	1,767	16,176	142,305
1988	3,307	28,861	0	139	1,035	10,070	671	2,470	148,684	185,896	136,789	274	675	518,871	43,563	3,250	46,813	565,684

Table C.6. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1977-1988. 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	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
1988	4,633	25,792	0	313	250	3,033	187	1,800	202,143	344,290	126,076	98	101	708,716	12,981	860	13,841	722,557



Table C. 7. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1977-1988. Data based on MPR.

Year	Finfish											Shellfish			Grand total		
	Black drum	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	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
1979	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
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1,136	403	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
1984	4,603	13,843	0	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	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	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	7,611	2,059	0	849	41,108	160,789	46,404	16	0	293,070	320	1,999	2,319	295,389
1988	33,071	14,234	0	5,092	524	531	2,802	80,713	109,753	181,843	1,152	0	429,883	500	5,473	5,973	435,856

Table C. 8. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1977-1988. Data based on MPR.

Year	Finfish											Shellfish			Grand total		
	Black drum	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	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
1979	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
1981	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	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
1984	1,367	10,451	0	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	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	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	2,514	741	0	766	44,745	329,892	38,443	14	0	433,627	80	734	814	434,441
1988	31,701	12,856	0	2,001	183	53	2,460	92,685	184,981	157,465	827	0	484,996	230	2,860	3,346	488,342

Table C.9. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish							
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap	Total	Blue crab	Other	Total	Grand total
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	18,446	2,228	0	0	3,937	4,177	0	0	112,196	138,735	54,820	0	0	334,539	393	802	1,195	335,734
1988	9,897	865	0	0	5,107	620	0	161	24,439	294,592	58,742	86	0	394,509	901	628	1,529	396,038

Table C.10. Ex-vessel (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1977-1988. Data based on MMPR.

Year	Finfish										Shellfish							
	Black drum	Flounder	Atlantic croaker	Gafftopsail catfish	Sheepshead	Kingfish	Mullet	Cobia	Grouper	Snapper	Other	Unclassified Food	Scrap	Total	Blue crab	Other	Total	Grand total
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	0	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	236,590	60,417	0	0	473,317	134	661	795	474,112
1988	7,176	1,014	0	0	1,040	186	0	155	21,295	561,809	90,041	51	0	682,767	938	241	1,179	683,946

Appendix D. Monthly commercial finfish and shellfish landings (lb) and ex-vessel value (\$) from Texas bay systems during 1988.

Table D.1. Weight (lb) of each species landed commercially from the Sabine Lake system during 1988. Data based on MWPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	1,800	0	0	0	0	0	0	0	0	0	0	0	1,800
Atlantic croaker	0	0	0	0	0	0	0	0	0	50	0	0	50
Black drum	0	82	0	0	0	0	50	0	0	0	0	0	132
Flounder, unclassified	0	0	0	0	0	100	110	848	124	0	204	290	1,676
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	80	0	0	80
Kingfish, unclassified	25	0	0	0	0	50	0	0	0	50	0	0	125
Seatrout, sand	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	15	279	350	600	350	300	90	425	0	0	0	15	2,424
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total finfish</b>	<b>1,840</b>	<b>361</b>	<b>350</b>	<b>600</b>	<b>350</b>	<b>450</b>	<b>250</b>	<b>1273</b>	<b>124</b>	<b>180</b>	<b>204</b>	<b>305</b>	<b>6,287</b>
<b>SHELLFISH</b>													
Shrimp (heads on)													
Brown and pink	0	0	0	0	2,044	5,755	5,302	0	0	0	0	0	13,101
White	0	0	0	0	22	0	2,390	88,901	70,111	105,566	81,227	0	348,217
Other	0	0	0	0	0	0	0	0	0	624	52	0	676
<b>Total Shrimp</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,066</b>	<b>5,755</b>	<b>7,692</b>	<b>88,901</b>	<b>70,111</b>	<b>106,190</b>	<b>81,279</b>	<b>0</b>	<b>361,994</b>
Blue crab	194	672	0	2,017	5,955	4,098	3,578	99,898	100,250	83,107	81,675	61,727	443,171
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	0	65	65
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total shellfish</b>	<b>194</b>	<b>672</b>	<b>0</b>	<b>2,017</b>	<b>8,021</b>	<b>9,853</b>	<b>11,270</b>	<b>188,799</b>	<b>170,361</b>	<b>189,297</b>	<b>162,954</b>	<b>61,792</b>	<b>805,230</b>
<b>Grand Total</b>	<b>2,034</b>	<b>1,033</b>	<b>350</b>	<b>2,617</b>	<b>8,371</b>	<b>10,303</b>	<b>11,520</b>	<b>190,072</b>	<b>170,485</b>	<b>189,477</b>	<b>163,158</b>	<b>62,097</b>	<b>811,517</b>

Table D.2. Ex-vessel value (\$) of each species landed commercially from the Sabine Lake system during 1988. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	1,800	0	0	0	0	0	0	0	0	0	0	0	1,800
Atlantic croaker	0	0	0	0	0	0	0	0	0	30	0	0	30
Black drum	0	74	0	0	0	0	50	0	0	0	0	0	124
Flounder, unclassified	0	0	0	0	0	100	110	724	124	0	175	435	1,668
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	20	0	0	20
Kingfish, unclassified	8	0	0	0	0	30	0	0	0	13	0	0	51
Sheepshead	4	112	158	240	140	120	44	191	0	0	0	8	1,017
Unclassified food	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total finfish</b>	<b>1,812</b>	<b>186</b>	<b>158</b>	<b>240</b>	<b>140</b>	<b>250</b>	<b>204</b>	<b>1,321</b>	<b>124</b>	<b>63</b>	<b>175</b>	<b>1,003</b>	<b>4,710</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	0	0	0	0	1,206	3,856	3,022	0	0	0	0	0	8,084
White	0	0	0	0	45	0	1,673	67,409	57,491	90,787	62,545	0	279,950
Other	0	0	0	0	0	0	0	0	0	281	28	0	309
<b>Total Shrimp</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,251</b>	<b>3,856</b>	<b>4,695</b>	<b>67,409</b>	<b>57,491</b>	<b>91,068</b>	<b>62,573</b>	<b>0</b>	<b>288,343</b>
Blue crab	93	390	0	942	22,287	1,596	1,463	40,112	40,161	33,335	32,681	30,899	183,959
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	0	33	33
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total shellfish</b>	<b>93</b>	<b>390</b>	<b>0</b>	<b>942</b>	<b>3,538</b>	<b>5,452</b>	<b>6,158</b>	<b>107,521</b>	<b>97,652</b>	<b>124,403</b>	<b>95,254</b>	<b>30,932</b>	<b>472,335</b>
<b>Grand Total</b>	<b>1,905</b>	<b>576</b>	<b>158</b>	<b>1,182</b>	<b>3,678</b>	<b>5,702</b>	<b>6,362</b>	<b>108,842</b>	<b>97,776</b>	<b>124,466</b>	<b>95,429</b>	<b>31,935</b>	<b>477,045</b>

Table D.3. Weight (lb) of each species landed commercially from the Galveston Bay system during 1988. Data based on MPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	1,247	141	77	114	174	70	369	0	0	0	0	0	2,220
Atlantic croaker	3	1	4	40	359	1,259	629	3,293	4,483	2,827	843	68	13,809
Black drum	9,790	17,619	983	3,867	2,858	16,284	4,059	1,413	143	655	799	2,173	61,297
Blue fish	85	0	0	0	0	0	0	0	0	0	0	0	85
Florida pompano	0	0	0	0	41	240	84	572	67	0	0	0	1,004
Flounder, unclassified	589	1,317	595	1,169	1,253	1,703	2,670	9,915	3,107	6,193	18,036	991	47,299
Gafftopsail catfish	0	165	0	278	1,105	700	832	73	80	0	0	0	3,262
Kingfish, unclassified	3	49	75	287	2	20	157	361	0	166	151	183	1,486
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	105	0	0	105
Mullet, unclassified	438	487	13,726	271	15,091	493	3,483	8,835	10,380	8,739	378	382	64,553
Seatrout, sand	16	12	6	17	5	4	10	69	10	0	66	0	215
Shark, unclassified	0	0	0	0	263	781	1,800	349	0	0	0	0	3,193
Sheepshead	49,868	10,108	3,206	2,010	946	368	1,484	2,487	289	2,033	938	101	73,893
Southern kingfish	0	0	0	0	0	102	0	0	0	0	0	0	102
Stingray, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	252	924	1,239	1,606	1,398	2,746	5,211	1,377	401	15,125
Unclassified scrap	0	0	161	212	4,840	11,647	3,714	18,478	134,290	31,227	1,498	215	206,282
<b>Total finfish</b>	<b>62,039</b>	<b>29,899</b>	<b>18,833</b>	<b>8,517</b>	<b>27,861</b>	<b>34,910</b>	<b>21,347</b>	<b>46,523</b>	<b>155,595</b>	<b>57,156</b>	<b>24,086</b>	<b>4,514</b>	<b>493,980</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	0	0	0	718	659,685	1,583,169	665,084	532,794	113	12,608	0	0	3,454,171
White	3,657	18	0	19,700	55,620	31,567	1,363	445,241	1,161,361	822,052	428,098	116,604	3,085,281
Other	0	0	0	0	0	0	0	0	0	0	1,284	1,605	2,889
<b>Total Shrimp</b>	<b>3,657</b>	<b>18</b>	<b>0</b>	<b>20,418</b>	<b>715,305</b>	<b>1,614,736</b>	<b>666,447</b>	<b>978,035</b>	<b>1,161,587</b>	<b>834,660</b>	<b>429,382</b>	<b>118,209</b>	<b>6,542,341</b>
<b>Blue crab</b>	<b>29,715</b>	<b>75,413</b>	<b>62,719</b>	<b>159,790</b>	<b>457,286</b>	<b>427,365</b>	<b>478,323</b>	<b>392,169</b>	<b>159,027</b>	<b>405,632</b>	<b>394,888</b>	<b>74,701</b>	<b>3,118,874</b>
Oyster, Eastern	250,956	130,295	152,361	83,007	10,151	126,211	98,159	29,050	3,238	86,188	337,545	145,204	1,452,365
Squid, unclassified	0	0	0	342	1,586	753	3,125	7,665	3,671	3,590	2,963	85	23,800
Stone crab	0	272	590	991	749	1,167	838	426	807	3,367	22,823	363	32,393
<b>Total shellfish</b>	<b>284,328</b>	<b>205,998</b>	<b>215,670</b>	<b>264,548</b>	<b>1,185,077</b>	<b>2,170,232</b>	<b>1,216,892</b>	<b>1,407,345</b>	<b>1,328,217</b>	<b>1,333,437</b>	<b>1,187,621</b>	<b>338,562</b>	<b>11,169,773</b>
<b>Grand Total</b>	<b>346,367</b>	<b>236,743</b>	<b>234,503</b>	<b>273,065</b>	<b>1,212,938</b>	<b>2,205,142</b>	<b>1,268,239</b>	<b>1,453,868</b>	<b>1,483,812</b>	<b>1,390,593</b>	<b>1,211,707</b>	<b>343,076</b>	<b>11,663,753</b>

Table D. 4. Ex-vessel value (\$) of each species landed commercially from the Galveston Bay system during 1988. Data based on MMPR and MMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	1,097	124	68	109	153	67	354	0	0	0	0	0	2,040
Atlantic croaker	3	0	1	14	91	330	214	955	818	636	227	18	3,307
Black drum	6,892	16,619	737	1,904	2,696	16,116	5,109	1,799	131	518	671	2,237	55,643
Blue fish	118	0	0	0	0	0	0	0	0	0	0	0	118
Florida pompano	0	0	0	0	21	143	42	286	33	0	0	0	525
Flounder, unclassified	704	1,449	629	1,170	1,357	2,364	4,052	15,271	3,434	5,431	17,935	1,045	55,457
Gafftopsail catfish	0	83	0	65	590	128	146	14	12	0	0	0	1,038
Kingfish, unclassified	1	15	23	80	1	6	45	126	10	46	42	86	481
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	31	0	0	31
Mullet, unclassified	116	124	1,420	43	1,829	118	674	1,937	2,173	1,779	139	245	10,690
Seatrout, sand	4	3	2	4	4	1	3	23	3	0	17	0	64
Shark, unclassified	0	0	0	0	82	242	558	105	0	0	0	0	987
Sheepshead	10,491	2,767	1,009	692	281	105	609	896	73	547	271	38	17,798
Southern Kingfish	0	0	0	0	0	64	0	0	0	0	0	0	64
Stingray, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	0	0	322	253	464	383	680	1,260	400	115	0	4,003
Unclassified scrap	0	0	72	95	579	1,267	1,157	2,132	65,003	3,290	277	22	73,894
<b>Total finfish</b>	<b>19,426</b>	<b>21,184</b>	<b>3,961</b>	<b>4,302</b>	<b>8,270</b>	<b>21,204</b>	<b>14,109</b>	<b>24,067</b>	<b>72,370</b>	<b>13,833</b>	<b>20,288</b>	<b>3,806</b>	<b>226,140</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	0	0	0	1,142	443,410	1,653,578	862,746	860,711	139	15,618	0	0	3,837,344
White	2,596	15	0	35,271	128,723	95,293	2,710	530,843	1,697,605	1,095,825	465,922	131,101	4,185,904
Other	0	0	0	0	0	0	0	0	0	0	514	964	1,478
<b>Total Shrimp</b>	<b>2,596</b>	<b>15</b>	<b>0</b>	<b>36,413</b>	<b>572,133</b>	<b>1,748,865</b>	<b>865,456</b>	<b>1,391,554</b>	<b>1,697,744</b>	<b>1,111,443</b>	<b>466,436</b>	<b>132,065</b>	<b>8,024,726</b>
Blue crab	18,270	43,562	31,468	81,317	252,098	198,004	224,714	181,339	64,740	188,701	194,698	37,501	1,517,520
Oyster, Eastern	672,858	352,707	352,418	224,395	26,544	349,317	276,525	75,996	9,264	234,071	947,581	400,118	3,921,794
Squid, unclassified	0	0	0	140	624	291	1,288	3,172	1,985	1,409	1,310	34	10,253
Stone crab	0	227	493	475	289	1,226	435	345	574	1,453	9,180	156	14,853
<b>Total shellfish</b>	<b>693,724</b>	<b>396,511</b>	<b>384,379</b>	<b>342,740</b>	<b>851,688</b>	<b>2,297,709</b>	<b>1,368,418</b>	<b>1,652,406</b>	<b>1,774,307</b>	<b>1,537,077</b>	<b>1,619,205</b>	<b>569,874</b>	<b>13,489,146</b>
<b>Grand Total</b>	<b>713,150</b>	<b>417,695</b>	<b>388,340</b>	<b>347,042</b>	<b>859,958</b>	<b>2,319,013</b>	<b>1,382,527</b>	<b>1,676,473</b>	<b>1,846,677</b>	<b>1,550,910</b>	<b>1,639,493</b>	<b>575,544</b>	<b>13,715,286</b>

Table D.5. Weight (lb) of each species landed commercially from the Matagorda Bay system during 1988. Data based on MPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	0	0	0	0	3	0	0	0	0	0	0	3
Black drum	0	0	1,257	0	543	197	237	0	15	0	0	0	2,249
Flounder, unclassified	206	0	0	132	135	656	217	28	246	855	315	0	2,790
Gafftopsail catfish	0	0	0	0	0	0	0	0	35	63	0	12	110
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	25	0	0	25
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	0	0	0	73	27	37	0	254	25	5	0	421
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total finfish</b>	206	0	1,257	132	751	883	491	28	550	968	320	12	5,598
<b>SHELLFISH</b>													
Shrimp (heads on)													
Brown and pink	3,921	673	1,157	16,949	683,587	1,173,330	453,746	26,475	0	53,294	23,158	16,068	2,452,358
White	0	0	0	4,346	92,090	5,123	1,024	332,594	504,910	745,777	163,078	12,875	1,861,817
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shrimp</b>	3,921	673	1,157	21,295	775,677	1,178,453	454,770	359,069	504,910	799,071	186,236	28,943	4,314,175
Blue crab	16,620	35,925	18,701	39,581	71,662	80,486	178,691	4,235	45,339	57,354	14,554	177,537	740,685
Oyster, Eastern	101,030	65,329	24,065	44,241	0	0	0	0	0	0	83,512	202,880	521,057
Squid, unclassified	77	0	0	0	0	0	0	0	0	0	0	0	77
Stone crab	0	0	312	6,684	843	12	16	944	0	0	12	0	8,823
<b>Total shellfish</b>	121,648	101,927	44,235	111,801	848,182	1,258,951	633,477	364,248	550,249	856,425	284,314	409,360	5,584,817
<b>Grand Total</b>	121,854	101,927	45,492	111,933	848,933	1,259,834	633,968	364,276	550,799	857,393	284,634	409,372	5,590,415

<sup>a</sup>NMFS 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 1988. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	0	0	0	0	5	0	0	0	0	0	0	5
Black drum	0	0	880	0	462	167	201	0	12	0	0	0	1,722
Flounder, unclassified	165	0	0	211	236	774	254	35	246	1,060	483	0	3,464
Gafftopsail catfish	0	0	0	0	0	0	0	0	7	79	0	10	96
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	13	0	0	13
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	0	0	0	37	14	19	1,575	127	7	4	0	0	208
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total finfish</b>	165	0	880	211	735	960	474	1,610	392	1,159	487	10	5,508
<b>SHELLFISH</b>													
Shrimp (heads on) <sup>a</sup>													
Brown and pink	11,057	929	1,550	24,482	603,982	1,005,793	417,732	17,225	0	36,186	26,641	20,049	2,165,626
White	0	0	0	7,823	108,666	14,652	2,939	493,520	791,971	1,358,648	228,388	14,719	3,021,326
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shrimp</b>	11,057	929	1,550	32,305	712,648	1,020,445	420,671	510,745	791,971	1,394,834	255,029	34,768	5,186,952
Blue crab	5,817	12,933	7,063	16,043	27,820	30,586	62,573	1,482	15,455	20,079	5,833	71,038	276,722
Oyster, Eastern	181,030	110,206	48,842	81,229	0	0	0	0	0	0	179,514	422,447	1,023,268
Squid, unclassified	15	0	0	0	0	0	0	0	0	0	0	0	15
Stone crab	0	0	150	3,342	1,677	6	6	415	0	0	6	0	5,602
<b>Total shellfish</b>	197,919	124,068	57,605	132,919	742,145	1,051,037	483,250	512,642	807,426	1,414,913	440,382	528,253	6,492,559
<b>Grand Total</b>	198,084	124,068	58,485	133,130	742,880	1,051,997	483,506	514,470	807,818	1,416,072	440,869	528,263	6,498,067

<sup>a</sup>NMFS 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 1988. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	0	0	132	478	0	0	0	120	12	0	0	0	742
Flounder, unclassified	0	0	63	193	0	0	0	390	132	0	0	0	778
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingfish, unclassified	0	0	0	451	0	0	0	37	23	0	0	0	511
Sheepshead	0	0	37	113	0	0	0	47	0	0	0	0	197
<b>Total finfish</b>	0	0	232	1,235	0	0	0	594	167	0	0	0	2,228
<b>SHELLFISH<sup>a</sup></b>													
Blue crab	0	0	0	0	0	0	0	131	96	0	0	0	227
Oyster, Eastern	0	0	0	0	0	0	0	0	0	0	0	893	893
Squid, unclassified	0	0	0	178	0	0	0	5	0	0	0	0	183
Stone crab	0	0	0	0	0	0	0	36	16	0	0	0	52
<b>Total shellfish</b>	0	0	0	178	0	0	0	172	112	0	0	893	1,355
<b>Grand Total</b>	0	0	232	1,413	0	0	0	766	279	0	0	893	3,583

<sup>a</sup>NMFS 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 1988. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	0	0	132	406	0	0	0	102	10	0	0	0	650
Flounder, unclassified	0	0	110	338	0	0	0	683	231	0	0	0	1,362
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingfish, unclassified	0	0	0	135	0	0	0	19	12	0	0	0	166
Sheepshead	0	0	19	57	0	0	0	24	0	0	0	0	100
<b>Total finfish</b>	0	0	261	936	0	0	0	828	253	0	0	0	2,278
<b>SHELLFISH<sup>a</sup></b>													
Blue crab	0	0	0	0	0	0	0	66	48	0	0	0	114
Oyster, Eastern	0	0	0	0	0	0	0	0	0	0	0	1,836	1,836
Squid, unclassified	0	0	0	45	0	0	0	10	0	0	0	0	55
Stone crab	0	0	0	0	0	0	0	18	8	0	0	0	26
<b>Total shellfish</b>	0	0	0	45	0	0	0	94	56	0	0	1,836	2,031
<b>Grand Total</b>	0	0	261	981	0	0	0	922	309	0	0	1,836	4,309

<sup>a</sup>NMFS 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 1988. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	0	0
Black drum	143	495	603	508	147	208	482	1,238	55	95	35	387	4,396
Florida pompano	0	0	0	0	402	0	0	0	0	0	0	0	402
Flounder, unclassified	63	396	396	1,315	1,564	2,565	4,308	4,669	4,119	4,967	6,226	607	31,195
Gafftopsail catfish	0	0	8	348	202	4	210	488	94	0	0	0	1,354
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Seatrout, sand	8	101	58	7	0	0	0	0	0	0	0	74	248
Shark, unclassified	0	0	0	0	0	0	0	64	0	0	252	0	316
Sheepshead	0	41	82	93	83	286	306	305	335	360	90	112	2,093
Unclassified food	0	0	0	0	0	0	0	385	0	0	0	0	385
<b>Total finfish</b>	<b>214</b>	<b>1,033</b>	<b>1,147</b>	<b>2,271</b>	<b>2,398</b>	<b>3,063</b>	<b>5,306</b>	<b>7,149</b>	<b>4,603</b>	<b>5,422</b>	<b>6,603</b>	<b>1,180</b>	<b>40,389</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	237	0	0	38,291	1,081,826	544,091	200,441	57,348	7,596	10,418	43,667	5,856	1,989,771
White	0	0	0	0	0	174	210	256,337	126,338	174,855	54,943	3,453	616,310
<b>Total Shrimp</b>	<b>237</b>	<b>0</b>	<b>0</b>	<b>38,291</b>	<b>1,081,826</b>	<b>544,265</b>	<b>200,651</b>	<b>313,685</b>	<b>133,934</b>	<b>185,273</b>	<b>98,610</b>	<b>9,309</b>	<b>2,606,081</b>
Blue crab	88,939	166,355	179,171	410,993	435,234	325,808	276,270	276,048	139,147	154,165	150,630	139,116	2,741,866
Mantis shrimp	0	0	0	22	0	0	0	0	0	0	0	0	22
Oyster, Eastern	525	1,628	1,278	0	0	0	0	0	0	0	4,026	1,470	8,927
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	132	0	132
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total shellfish</b>	<b>89,691</b>	<b>167,983</b>	<b>180,449</b>	<b>449,306</b>	<b>1,517,060</b>	<b>870,073</b>	<b>476,921</b>	<b>589,733</b>	<b>273,081</b>	<b>339,438</b>	<b>253,398</b>	<b>149,895</b>	<b>5,357,028</b>
<b>Grand Total</b>	<b>89,905</b>	<b>169,016</b>	<b>181,596</b>	<b>451,577</b>	<b>1,519,458</b>	<b>873,136</b>	<b>482,227</b>	<b>596,882</b>	<b>277,684</b>	<b>344,860</b>	<b>260,001</b>	<b>151,075</b>	<b>5,397,417</b>

Table D.10. Ex-vessel value (\$) of each species landed commercially from the San Antonio Bay system during 1988. Data based on MMRP and MIFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	0	0
Black drum	107	371	513	457	138	191	395	1,089	52	79	26	310	3,728
Florida pompano	0	0	0	0	454	0	0	0	0	0	0	0	454
Flounder, unclassified	87	515	503	1,725	2,033	3,072	5,475	6,152	5,553	6,257	8,067	760	40,199
Gafftopsail catfish	0	0	2	125	75	1	67	146	36	0	0	0	452
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Seatrout, sand	3	43	26	3	0	0	0	0	0	0	0	50	125
Shark, unclassified	0	0	0	0	0	0	0	29	0	0	68	0	97
Sheepshead	0	14	21	30	33	95	105	102	110	134	0	34	718
Unclassified food	0	0	0	0	0	0	0	231	0	0	40	0	231
<b>Total finfish</b>	<b>197</b>	<b>943</b>	<b>1,065</b>	<b>2,340</b>	<b>2,733</b>	<b>3,359</b>	<b>6,042</b>	<b>7,749</b>	<b>5,751</b>	<b>6,470</b>	<b>8,201</b>	<b>1,154</b>	<b>46,004</b>
<b>SHELLFISH</b>													
Shrimp (heads on)	313	0	0	42,120	762,105	497,355	254,758	63,326	8,963	13,024	50,527	5,885	1,698,376
Brown and pink	0	0	0	0	0	421	949	387,453	209,347	289,239	68,458	3,798	959,665
White	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shrimp</b>	<b>313</b>	<b>0</b>	<b>0</b>	<b>42,120</b>	<b>762,105</b>	<b>497,776</b>	<b>255,707</b>	<b>450,779</b>	<b>218,310</b>	<b>302,263</b>	<b>118,985</b>	<b>9,683</b>	<b>2,658,041</b>
Blue crab	34,800	71,840	71,322	149,152	160,677	114,519	102,966	106,248	53,701	55,487	68,637	67,476	1,056,825
Mantis shrimp	0	0	0	22	0	0	0	0	0	0	0	0	22
Oyster, Eastern	1,350	4,032	3,315	0	0	0	0	0	0	0	9,537	4,074	22,308
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	33	0	33
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total shellfish</b>	<b>36,463</b>	<b>75,872</b>	<b>74,637</b>	<b>191,294</b>	<b>922,782</b>	<b>612,295</b>	<b>358,673</b>	<b>557,027</b>	<b>272,011</b>	<b>357,750</b>	<b>197,192</b>	<b>81,233</b>	<b>3,737,229</b>
<b>Grand Total</b>	<b>36,660</b>	<b>76,815</b>	<b>75,702</b>	<b>193,634</b>	<b>925,515</b>	<b>615,654</b>	<b>364,715</b>	<b>564,776</b>	<b>277,762</b>	<b>364,220</b>	<b>205,393</b>	<b>82,387</b>	<b>3,783,233</b>

Table 0.11. Weight (lb) of each species landed commercially from the Arkansas Bay system during 1988. Data based on MIMPR and MIFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0	0	14	0	0	14
Black drum	2,035	17,207	1,692	2,197	2,180	1,605	1,166	181	291	1,449	997	1,028	37,447
Flounder, unclassified	249	957	1,410	978	1,654	2,775	3,463	2,749	1,464	5,090	3,906	3,024	7,885
Gafftopsail, catfish	0	1	80	40	0	443	0	1,000	0	0	0	0	1,564
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Mullet, unclassified	1,126	0	0	0	0	0	34	0	0	18	0	0	1,178
Shark, blacktip	0	0	0	0	77	0	0	0	0	0	0	0	77
Shark, unclassified	0	0	0	115	315	241	170	6	0	0	0	0	847
Sheepshead	85	424	887	476	665	218	523	89	17	59	0	0	3,917
Unclassified food	0	0	0	0	0	0	0	0	0	0	4,322	1,277	5,599
Unclassified scrap	0	0	0	0	0	0	0	0	0	1,129	0	0	1,129
<b>Total finfish</b>	<b>3,495</b>	<b>18,589</b>	<b>4,069</b>	<b>3,806</b>	<b>4,985</b>	<b>5,282</b>	<b>5,356</b>	<b>4,025</b>	<b>1,772</b>	<b>7,759</b>	<b>9,225</b>	<b>5,344</b>	<b>79,657</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	3,197	0	4,344	37,439	1,076,834	985,747	267,983	218,821	92,321	29,512	50,682	22,998	2,789,878
White	86	0	0	0	0	421	0	100,684	290,906	407,939	243,365	7,029	1,050,430
<b>Total shrimp</b>	<b>3,283</b>	<b>0</b>	<b>4,344</b>	<b>37,439</b>	<b>1,076,834</b>	<b>986,168</b>	<b>267,983</b>	<b>319,505</b>	<b>383,227</b>	<b>437,451</b>	<b>294,047</b>	<b>30,027</b>	<b>3,840,308</b>
Blue crab	32,411	65,300	38,479	84,740	242,741	430,141	497,423	425,195	322,321	293,847	73,788	65,546	2,571,932
Oyster, Eastern	41,303	42,964	55,196	76,073	0	0	0	0	0	0	27,686	33,163	276,385
Squid, unclassified	0	0	0	42	0	109	102	0	0	0	91	0	344
Stone crab	0	124	0	158	568	524	1,540	18,488	6,921	1,529	128,894	16,360	175,106
<b>Total shellfish</b>	<b>76,997</b>	<b>108,388</b>	<b>98,019</b>	<b>198,452</b>	<b>1,320,143</b>	<b>1,416,942</b>	<b>767,048</b>	<b>763,188</b>	<b>712,469</b>	<b>732,827</b>	<b>524,506</b>	<b>145,096</b>	<b>6,864,075</b>
<b>Grand Total</b>	<b>80,492</b>	<b>126,977</b>	<b>102,088</b>	<b>202,258</b>	<b>1,325,034</b>	<b>1,422,224</b>	<b>772,404</b>	<b>767,213</b>	<b>714,241</b>	<b>740,586</b>	<b>533,731</b>	<b>150,425</b>	<b>6,943,732</b>

Table D.12. Ex-vessel value (\$) of each species landed commercially from the Aransas Bay system during 1988. Data based on MPR and MFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic croaker	0	0	0	0	0	0	0	0	0	3	0	0	3
Black drum	2,062	8,713	1,856	2,596	1,884	1,386	1,082	217	312	1,483	773	817	27,516
Flounder, unclassified	327	1,416	2,633	1,499	1,958	4,389	5,462	4,585	2,371	7,794	4,908	3,440	40,973
Gafftopsail catfish	0	0	20	10	0	66	0	100	0	0	0	0	196
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Mullet, unclassified	169	0	0	0	0	0	17	0	0	7	0	0	193
Shark, blacktip	0	0	0	0	77	0	0	0	0	0	0	0	77
Shark, unclassified	0	0	0	29	160	109	78	4	0	0	0	0	380
Sheepshead	21	106	283	261	185	72	157	26	5	18	0	0	1,253
Unclassified food	0	0	0	0	0	0	0	0	0	0	10,593	3,785	14,378
Unclassified scrap	0	0	0	0	0	0	0	0	0	56	0	0	56
<b>Total finfish</b>	<b>2,579</b>	<b>10,235</b>	<b>4,792</b>	<b>4,395</b>	<b>4,264</b>	<b>6,022</b>	<b>6,796</b>	<b>4,932</b>	<b>2,688</b>	<b>9,361</b>	<b>16,274</b>	<b>8,042</b>	<b>85,025</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	4,572	0	7,211	55,035	692,514	847,644	267,265	234,154	107,092	34,234	56,359	25,926	2,332,006
White	218	0	0	0	0	1,116	0	164,064	445,086	656,782	292,427	9,338	1,569,031
<b>Total Shrimp</b>	<b>4,790</b>	<b>0</b>	<b>7,211</b>	<b>55,035</b>	<b>692,514</b>	<b>848,760</b>	<b>267,265</b>	<b>398,218</b>	<b>552,178</b>	<b>691,016</b>	<b>348,786</b>	<b>35,264</b>	<b>3,901,037</b>
<b>Blue crab</b>													
Oyster, Eastern	13,307	25,501	14,928	33,841	91,588	165,195	172,777	149,110	115,626	112,732	37,036	32,464	964,105
Squid, unclassified	99,971	104,034	134,661	186,651	0	0	0	0	0	0	70,889	80,475	676,681
Stone crab	0	0	0	11	0	54	51	0	0	0	91	0	207
<b>Total shellfish</b>	<b>118,068</b>	<b>129,613</b>	<b>156,800</b>	<b>275,628</b>	<b>784,460</b>	<b>1,014,365</b>	<b>441,157</b>	<b>561,660</b>	<b>673,316</b>	<b>804,717</b>	<b>511,577</b>	<b>159,669</b>	<b>5,631,030</b>
<b>Grand Total</b>	<b>120,647</b>	<b>139,848</b>	<b>161,592</b>	<b>280,023</b>	<b>788,724</b>	<b>1,020,387</b>	<b>447,953</b>	<b>566,592</b>	<b>676,004</b>	<b>814,078</b>	<b>527,851</b>	<b>167,711</b>	<b>5,716,055</b>

Table D.13. Weight (lb) of each species landed commercially from the Corpus Christi Bay system during 1988. Data based on MMR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic cutlassfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Black drum	19,347	8,788	15,739	27,050	14,630	1,779	1,297	7,336	10,877	9,717	316	12,762	132,638
Florida pompano	0	0	0	0	6	189	0	0	0	0	0	0	195
Flounder, unclassified	894	211	275	1,644	985	2,487	3,061	3,489	941	4,088	5,221	9,699	32,995
Gafftopsail catfish	368	0	215	413	10	459	0	117	28	0	0	0	1,610
Shark, unclassified	0	0	0	0	27	0	0	227	0	0	0	0	254
Sheepshead	351	493	48,173	6,505	1,462	247	32	469	300	276	466	738	59,512
Unclassified food	0	0	0	0	5	0	0	0	0	0	100	121	226
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total finfish</b>	<b>20,960</b>	<b>9,492</b>	<b>64,402</b>	<b>35,612</b>	<b>17,125</b>	<b>5,161</b>	<b>4,390</b>	<b>11,638</b>	<b>12,146</b>	<b>14,081</b>	<b>9,103</b>	<b>23,320</b>	<b>227,430</b>
<b>SHELLFISH</b>													
<b>Shrimp (heads on)</b>													
Brown and pink	5,735	4,555	35,405	97,462	250,316	385,091	91,116	38,288	4,885	1,538	41,870	25,682	981,943
White	21	18	0	0	0	973	634	136,621	129,316	115,183	69,900	10,713	463,379
<b>Total Shrimp</b>	<b>5,756</b>	<b>4,573</b>	<b>35,405</b>	<b>97,462</b>	<b>250,316</b>	<b>386,064</b>	<b>91,750</b>	<b>174,909</b>	<b>134,201</b>	<b>116,721</b>	<b>111,770</b>	<b>36,395</b>	<b>1,445,322</b>
Blue crab	43,633	4,205	0	4,499	4,221	24,763	25,137	54,266	11,826	11,419	8,020	10,785	202,774
Mantis Shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Oyster, Eastern	0	0	0	175	0	0	0	0	0	0	0	0	175
Squid, unclassified	0	0	81	8	5	121	0	176	28	78	0	0	497
Stone crab	232	1,686	1,024	1,332	2,060	2,512	1,336	10,800	3,560	0	6,028	6,310	36,880
<b>Total shellfish</b>	<b>49,621</b>	<b>10,464</b>	<b>36,510</b>	<b>103,476</b>	<b>256,555</b>	<b>413,460</b>	<b>118,223</b>	<b>240,151</b>	<b>149,615</b>	<b>128,218</b>	<b>125,818</b>	<b>53,341</b>	<b>1,685,648</b>
<b>Grand Total</b>	<b>70,581</b>	<b>19,956</b>	<b>100,912</b>	<b>139,088</b>	<b>273,727</b>	<b>418,621</b>	<b>122,613</b>	<b>251,789</b>	<b>161,761</b>	<b>142,299</b>	<b>134,921</b>	<b>76,810</b>	<b>1,913,078</b>

Table D.14. Ex-vessel value (\$) of each species landed commercially from the Corpus Christi Bay system during 1988. Data based on NMFS and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Atlantic croaker	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic cutlassfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Black drum	13,560	6,930	12,054	23,654	13,273	1,560	1,592	7,671	11,199	9,192	3,094	11,348	115,127
Florida pompano	0	0	0	0	5	170	0	0	0	0	0	0	175
Flounder, unclassified	984	239	366	2,170	1,261	3,499	4,203	4,502	1,297	5,077	6,353	10,602	40,553
Gafftopsail catfish	423	0	59	101	4	96	0	94	6	0	0	0	783
Shark, unclassified	0	0	0	0	9	0	0	136	0	0	0	0	145
Sheepshead	91	159	13,471	2,015	565	72	10	154	101	91	557	281	17,567
Unclassified food	0	0	0	0	4	0	0	0	0	0	126	137	267
Unclassified scrap	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total finfish</b>	<b>15,058</b>	<b>7,328</b>	<b>25,950</b>	<b>27,940</b>	<b>15,121</b>	<b>5,397</b>	<b>5,805</b>	<b>12,557</b>	<b>12,603</b>	<b>14,360</b>	<b>10,130</b>	<b>22,368</b>	<b>174,617</b>
<b>SHELLFISH</b>													
Shrimp (heads on)	7,644	6,821	61,205	134,386	204,103	379,153	93,269	46,347	5,203	1,742	56,093	29,874	1,025,840
Brown and pink	29	63	0	0	0	4,379	1,950	178,960	173,265	156,504	97,353	17,015	629,518
White													
<b>Total Shrimp</b>	<b>7,673</b>	<b>6,884</b>	<b>61,205</b>	<b>134,386</b>	<b>204,103</b>	<b>383,532</b>	<b>95,219</b>	<b>225,307</b>	<b>178,468</b>	<b>158,246</b>	<b>153,446</b>	<b>46,889</b>	<b>1,655,358</b>
Blue crab	15,850	1,892	0	1,935	1,834	9,222	9,195	20,722	4,950	5,909	3,846	5,393	80,748
Mantis shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0
Oyster, Eastern	0	0	0	500	0	0	0	0	0	0	0	0	500
Squid, unclassified	0	0	18	2	5	58	0	108	28	20	0	0	239
Stone crab	111	776	676	1,199	1,524	1,507	935	6,648	1,780	0	3,135	3,789	22,080
<b>Total shellfish</b>	<b>23,634</b>	<b>9,552</b>	<b>61,899</b>	<b>138,022</b>	<b>207,466</b>	<b>394,319</b>	<b>105,349</b>	<b>252,785</b>	<b>185,226</b>	<b>164,175</b>	<b>160,427</b>	<b>56,071</b>	<b>1,758,925</b>
<b>Grand Total</b>	<b>38,692</b>	<b>16,880</b>	<b>87,849</b>	<b>165,962</b>	<b>222,587</b>	<b>399,716</b>	<b>111,154</b>	<b>265,342</b>	<b>197,829</b>	<b>178,535</b>	<b>170,557</b>	<b>78,439</b>	<b>1,933,542</b>



Table D.15. Weight (lb) of each species landed commercially from the upper Laguna Madre system during 1988. Data based on MMFR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Atlantic croaker	0	2	0	0	0	0	0	0	0	0	0	0	2
Black drum	7,913	26,909	76,529	17,168	13,860	7,557	10,070	6,121	2,290	953	1,660	17,468	188,508
Florida pompano	0	0	0	0	0	0	0	0	0	1,800	3	0	1,803
Flounder, unclassified	28	327	320	671	0	1,683	1,816	0	33	91	0	0	4,969
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	810	3	3,205	618	85	0	0	65	19	5	0	0	4,810
<b>Total finfish</b>	<b>8,751</b>	<b>27,241</b>	<b>80,064</b>	<b>18,457</b>	<b>13,945</b>	<b>9,240</b>	<b>11,886</b>	<b>6,186</b>	<b>2,342</b>	<b>2,849</b>	<b>1,663</b>	<b>17,468</b>	<b>200,092</b>
<b>SHELLFISH</b>													
Shrimp (heads on)													
Brown and pink	0	0	20,400	150,239	46,086	33,628	786	0	0	5,803	8,695	2,424	268,061
White	0	0	0	0	0	0	0	29	1,644	0	956	300	2,929
<b>Total shrimp</b>	<b>0</b>	<b>0</b>	<b>20,400</b>	<b>150,239</b>	<b>46,086</b>	<b>33,628</b>	<b>786</b>	<b>29</b>	<b>1,644</b>	<b>5,803</b>	<b>9,651</b>	<b>2,724</b>	<b>270,990</b>
Blue crab	8,689	1,682	0	3,484	1,365	7,396	9,640	23,600	12,775	23,650	10,534	0	102,815
Eastern oyster	0	438	0	0	0	0	0	0	0	0	0	0	438
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Stone crab	0	0	0	0	0	0	96	0	0	0	0	0	96
<b>Total shellfish</b>	<b>8,689</b>	<b>2,120</b>	<b>20,400</b>	<b>153,723</b>	<b>47,451</b>	<b>41,024</b>	<b>10,522</b>	<b>23,629</b>	<b>14,419</b>	<b>29,453</b>	<b>20,185</b>	<b>2,724</b>	<b>374,339</b>
<b>Grand Total</b>	<b>17,440</b>	<b>29,361</b>	<b>100,464</b>	<b>172,180</b>	<b>61,396</b>	<b>50,264</b>	<b>22,408</b>	<b>29,815</b>	<b>16,761</b>	<b>32,302</b>	<b>21,848</b>	<b>20,192</b>	<b>574,431</b>

Table D.16. Ex-vessel value (\$) of each species landed commercially from the upper Laguna Madre system during 1988. Data based on MPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Atlantic croaker	0	1	0	0	0	0	0	0	0	0	0	0	1
Black drum	7,116	24,092	66,063	14,589	11,920	6,438	7,501	5,688	1,913	730	1,387	15,614	163,051
Florida pompano	0	0	0	0	0	0	0	0	0	2,070	4	0	2,074
Flounder, unclassified	31	481	259	998	0	2,693	2,835	0	50	159	0	0	7,506
Gafftopsail catfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheepshead	284	1	1,412	306	32	0	0	39	7	2	0	0	2,083
<b>Total finfish</b>	<b>7,431</b>	<b>24,575</b>	<b>67,734</b>	<b>15,893</b>	<b>11,952</b>	<b>9,131</b>	<b>10,336</b>	<b>5,727</b>	<b>1,970</b>	<b>2,961</b>	<b>1,391</b>	<b>15,614</b>	<b>174,715</b>
<b>SHELLFISH</b>													
Shrimp (heads on)													
Brown and pink	0	0	33,252	184,794	32,260	31,610	700	0	0	5,455	8,695	2,182	298,948
White	0	0	0	0	0	0	0	30	2,137	0	956	900	4,023
<b>Total Shrimp</b>	<b>0</b>	<b>0</b>	<b>33,252</b>	<b>184,794</b>	<b>32,260</b>	<b>31,610</b>	<b>700</b>	<b>30</b>	<b>2,137</b>	<b>5,455</b>	<b>9,651</b>	<b>3,082</b>	<b>302,971</b>
Blue crab	3,910	757	0	1,506	587	2,737	3,470	8,968	5,110	10,406	5,056	0	42,507
Eastern oyster	0	1,250	0	0	0	0	0	0	0	0	0	0	1,250
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Stone crab	0	0	0	0	0	0	67	0	0	0	0	0	67
<b>Total shellfish</b>	<b>3,910</b>	<b>2,007</b>	<b>33,252</b>	<b>186,300</b>	<b>32,847</b>	<b>34,347</b>	<b>4,237</b>	<b>8,998</b>	<b>7,247</b>	<b>15,861</b>	<b>14,707</b>	<b>3,082</b>	<b>346,795</b>
<b>Grand Total</b>	<b>11,341</b>	<b>26,582</b>	<b>100,986</b>	<b>202,193</b>	<b>44,799</b>	<b>43,478</b>	<b>14,573</b>	<b>14,725</b>	<b>9,217</b>	<b>18,822</b>	<b>16,098</b>	<b>18,696</b>	<b>521,510</b>

Table D.17. Weight (lb) of each species landed commercially from the lower Laguna Madre system during 1988. Data based on MMPR and NMFS.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	1,869	902	0	0	0	0	0	0	0	0	0	0	2,771
Atlantic croaker	0	0	0	0	0	0	0	0	166	10	15	46	237
Black drum	15,467	10,811	16,386	2,848	1,304	666	523	740	319	1,289	2,287	25,823	78,463
Flounder, unclassified	350	412	667	3,918	5,728	4,856	5,120	6,918	6,487	11,143	4,810	8,346	58,755
Kingfish, unclassified	0	0	150	0	0	0	0	0	0	0	0	0	150
Shark, unclassified	0	0	0	60	288	608	26	28	208	0	0	0	1,218
Sheepshead	777	285	18	33	40	125	277	499	157	49	74	324	2,658
Unclassified food	0	0	0	0	0	0	0	0	0	0	6,438	4,715	11,153
<b>Total finfish</b>	<b>18,463</b>	<b>12,410</b>	<b>17,221</b>	<b>6,915</b>	<b>7,360</b>	<b>6,255</b>	<b>5,946</b>	<b>8,185</b>	<b>7,337</b>	<b>12,491</b>	<b>13,624</b>	<b>39,254</b>	<b>155,405</b>
<b>SHELLFISH</b>													
Blue crab	0	0	44	45	0	0	0	146	90	0	0	375	700
Oyster, Eastern	333	490	1,278	2,101	1,453	1,418	735	981	543	0	0	0	9,332
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total shellfish</b>	<b>333</b>	<b>490</b>	<b>1,322</b>	<b>2,146</b>	<b>1,453</b>	<b>1,418</b>	<b>735</b>	<b>1,127</b>	<b>633</b>	<b>0</b>	<b>0</b>	<b>375</b>	<b>10,032</b>
<b>Grand Total</b>	<b>18,796</b>	<b>12,900</b>	<b>18,543</b>	<b>9,061</b>	<b>8,813</b>	<b>7,673</b>	<b>6,681</b>	<b>9,312</b>	<b>7,970</b>	<b>12,491</b>	<b>13,624</b>	<b>39,629</b>	<b>165,437</b>

Table D. 18. Ex-vessel value (\$) of each species landed commercially from the lower Laguna Madre system during 1988. Data based on NMFS and NMFS.

Species	Months												Total	
	January	February	March	April	May	June	July	August	September	October	November	December		
<b>FINFISH</b>														
Alligator gar	1,402	812	0	0	0	0	0	0	0	0	0	0	0	2,214
Atlantic croaker	0	0	0	0	0	0	0	0	33	2	0	9	47	
Black drum	12,230	7,001	8,235	1,477	1,064	606	520	725	319	1,259	1,977	17,853	53,266	
Flounder, unclassified	360	387	781	5,473	8,379	7,467	8,845	11,356	10,142	15,126	6,705	11,497	86,518	
Kingfish, unclassified	0	0	150	0	0	0	0	0	0	0	0	0	150	
Shark, unclassified	0	0	0	30	144	304	13	14	312	0	0	0	817	
Sheepshead	194	71	5	8	10	31	69	125	39	12	19	81	664	
Unclassified food	0	0	0	0	0	0	0	0	0	0	9,657	7,073	16,730	
<b>Total finfish</b>	<b>14,186</b>	<b>8,271</b>	<b>9,171</b>	<b>7,013</b>	<b>9,597</b>	<b>8,408</b>	<b>9,447</b>	<b>12,220</b>	<b>10,845</b>	<b>16,399</b>	<b>18,361</b>	<b>36,513</b>	<b>160,406</b>	
<b>SHELLFISH</b>														
Blue crab	0	0	48	49	0	0	0	161	99	0	0	377	734	
Oyster, Eastern	1,233	1,400	3,650	5,715	2,034	2,915	1,512	2,001	1,550	0	0	0	22,010	
Squid, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total shellfish</b>	<b>1,233</b>	<b>1,400</b>	<b>3,698</b>	<b>5,764</b>	<b>2,034</b>	<b>2,915</b>	<b>1,512</b>	<b>2,162</b>	<b>1,649</b>	<b>0</b>	<b>0</b>	<b>377</b>	<b>22,744</b>	
<b>Grand Total</b>	<b>15,419</b>	<b>9,671</b>	<b>12,869</b>	<b>12,777</b>	<b>11,631</b>	<b>11,323</b>	<b>10,959</b>	<b>14,382</b>	<b>12,494</b>	<b>16,399</b>	<b>18,361</b>	<b>36,890</b>	<b>183,150</b>	

Appendix E. Monthly commercial finfish and shellfish landings (lb) and ex-vessel value (\$) from the Gulf of Mexico grid zones during 1988.

Table E.1. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	300	0	0	0	0	0	0	0	0	0	0	300
Atlantic croaker	0	0	0	0	0	0	0	0	0	590	0	0	590
Black drum	39,815	36,054	40,204	36,173	3,492	4,983	0	380	0	0	0	57	161,158
Bluefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	0	0	0	0	0	193	62	20	0	0	0	0	275
Cusk eel	0	0	132	0	0	0	0	0	0	0	0	0	132
Dolphin	0	0	0	0	542	0	0	0	100	0	0	0	642
Florida pompano	0	3	0	0	0	0	0	0	0	0	0	0	3
Flounder, unclassified	4,952	586	569	736	739	857	563	544	539	749	6,567	2,056	19,457
Gafftopsail catfish	0	0	0	0	20	227	0	20	47	1,787	0	0	2,101
Greater amberjack	0	0	48	67	1,359	76	0	1,510	0	496	0	195	3,751
Grouper, black	0	0	0	0	0	0	0	0	0	0	0	59	59
Grouper, jewfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Grouper, scamp	0	0	0	0	0	0	60	47	3	0	103	100	313
Grouper, unclassified	0	0	0	0	745	7	0	12	0	0	115	12	894
Grouper, warsaw	0	0	67	257	623	82	0	215	0	186	0	215	1,645
Grouper, yellowedge	926	0	0	5,783	27,890	1,316	0	0	0	4,849	3,152	0	43,916
Kingfish, unclassified	480	190	427	574	1,408	327	2,362	1,326	1,889	1,264	2,525	1,162	13,934
Mackerel, king	0	0	0	0	0	0	0	0	0	0	0	0	0
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	0	0	0	0
Seatrout, sand	0	0	0	0	0	0	0	0	0	0	0	0	0
Shark, blacktip	0	0	0	0	459	0	0	0	0	0	0	0	459
Shark, shortfin, mako	0	0	0	0	497	0	0	0	0	0	0	0	497
Shark, unclassified	847	0	188	0	419	0	238	0	118	0	0	0	1,810
Sheepshead	576	3,347	10	38	15	340	0	77	29	126	0	8	4,566
Snapper, red	786	605	2,062	1,569	4,744	2,825	1,383	9,282	2,486	2,721	1,198	2,666	32,327
Snapper, unclassified	0	205	0	0	0	0	22	0	0	358	0	0	585
Snapper, vermillion	47	0	260	85	54	3	376	601	0	1,311	0	0	2,737
Swordfish	0	0	0	0	485	0	415	1,395	0	1,021	2,695	5,300	11,311
Tilefish	0	0	0	0	1,190	88	0	0	0	2,026	3,641	0	6,945
Triggerfish, grey	0	0	0	0	0	0	0	87	0	0	0	0	87
Tuna, Atlantic bonito	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, little	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, yellowfin	0	0	0	0	46,423	0	156,173	162,805	4,061	8,838	18,723	71,756	468,779
Unclassified scrap	0	0	0	0	0	0	26	0	0	0	0	0	26
Wahoo	0	0	0	0	1,566	0	0	13,818	347	44	0	0	15,775
<b>Total finfish</b>	48,429	41,290	43,970	45,282	42,670	11,324	161,680	192,139	9,619	26,366	38,719	83,586	795,074
<b>SHELLFISH</b>													
Blue crab	0	70	1,587	1,238	14,996	720	0	13,622	69	1,062	60	0	33,424
Squid, unclassified	0	16	53	551	0	142	307	2,667	133	917	20	1,382	6,188
<b>Total Shellfish</b>	0	86	1,640	1,789	14,996	862	307	16,289	202	1,979	80	1,382	39,612
<b>Grand total</b>	48,429	41,376	45,610	47,071	107,666	12,186	161,987	208,428	9,821	28,345	38,799	84,968	834,686

Table E.2. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 17.0 during 1988. Data based on MHPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Alligator gar	0	390	0	0	0	0	0	0	0	0	0	0	390
Atlantic croaker	0	0	0	0	0	0	0	0	0	177	0	0	177
Black drum	32,983	30,708	5,458	3,270	105	4,572	0	424	0	0	0	51	77,571
Bluefish	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	0	0	0	0	0	193	62	20	0	0	0	0	275
Cusk eel	0	0	79	0	0	0	0	0	0	0	0	0	79
Dolphin	0	0	0	0	450	0	0	0	70	0	0	0	520
Florida pompano	0	2	0	0	0	0	0	0	0	0	0	0	2
Flounder, unclassified	4,320	489	480	720	648	687	499	960	416	616	5,102	2,579	17,516
Gafftopsail catfish	0	0	0	0	5	32	0	5	11	357	0	0	410
Greater amberjack	0	0	19	25	462	26	0	891	0	317	0	98	1,838
Grouper, black	0	0	0	0	0	0	0	0	0	0	0	89	89
Grouper, jewfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Grouper, scamp	0	0	0	0	0	0	102	74	4	0	0	0	180
Grouper, unclassified	0	0	5	0	665	9	0	12	0	0	180	23	510
Grouper, warsaw	0	0	76	239	389	49	0	183	0	197	144	0	858
Grouper, yellowedge	1,408	0	0	9,249	31,258	1,342	0	0	0	0	4,791	258	1,391
Kingfish, unclassified	136	66	124	189	416	95	699	507	626	379	758	349	55,661
Mackerel, king	0	0	0	0	0	0	0	0	0	0	0	0	0
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	0	0	0	0
Seatrout, sand	0	0	0	0	0	0	0	0	0	0	0	0	0
Shark, blacktip	0	0	0	0	101	0	0	0	0	0	0	0	101
Shark, shortfin, mako	0	0	0	0	317	0	0	0	0	0	0	0	317
Shark, unclassified	1,211	0	38	0	126	0	140	0	98	0	0	0	1,613
Sheepshead	173	1,657	3	10	4	150	0	29	7	63	0	3	2,099
Snapper, red	1,151	1,271	4,156	3,120	8,960	5,316	2,607	21,229	5,159	5,679	2,203	5,519	66,370
Snapper, unclassified	0	410	0	0	0	0	22	0	0	422	0	0	854
Snapper, vermillion	64	0	325	85	57	2	560	759	0	1,324	0	0	3,176
Swordfish	0	0	0	0	1,571	0	440	3,864	0	2,246	7,762	15,158	31,041
Tilefish	0	0	0	0	981	62	0	0	0	2,107	1,930	0	5,080
Triggerfish, grey	0	0	0	0	0	0	0	26	0	0	0	0	26
Tuna, Atlantic bonito	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, little	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, yellowfin	0	0	0	0	81,380	0	188,969	198,622	7,269	14,229	38,757	147,100	676,326
Unclassified scrap	0	0	0	0	0	0	13	0	0	0	0	0	13
Wahoo	0	0	0	0	1,378	0	0	10,225	243	37	0	0	11,883
<b>Total finfish</b>	41,446	34,993	10,763	16,907	129,273	12,535	194,113	237,830	13,903	35,763	61,627	171,377	960,530
<b>SHELLFISH</b>													
Blue crab	0	39	895	427	6,700	360	0	5,677	28	531	27	0	14,684
Squid, unclassified	0	10	34	276	0	71	154	1,334	65	454	9	603	3,010
<b>Total Shellfish</b>	0	49	929	703	6,700	431	154	7,011	93	985	36	603	17,694
<b>Grand total</b>	41,446	35,042	11,692	17,610	135,973	12,966	194,267	244,841	13,996	36,748	61,663	171,980	978,224

Table E.3. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Atlantic croaker	0	0	155	0	0	0	0	500	79	0	8	159	901
Black drum	0	57	160	37	500	23	0	150	0	0	168	40	1,135
Bluefish	0	0	0	0	0	0	0	0	46	0	334	0	380
Cobia	0	12	11	20	80	151	26	387	17	0	2	51	757
Codfishes, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Crevalle jack	0	0	0	0	0	0	0	0	0	0	0	0	0
Cusk eel	0	0	0	0	0	0	0	136	0	0	0	0	136
Dolphin	9	0	0	0	80	15	451	70	21	10	5	47	708
Florida pompano	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder, unclassified	59	23	90	4	215	164	478	19	33	0	279	384	1,748
Gafftopsail catfish	0	0	0	0	0	25	25	0	0	50	0	32	132
Great barracuda	0	0	0	0	0	0	0	0	62	0	0	0	62
Greater amberjack	161	251	338	1,512	1,231	293	4,668	4,873	595	1,269	941	387	16,622
Grouper, scamp	47	65	0	0	459	61	124	569	40	228	109	0	1,702
Grouper, unclassified	5,356	8,336	4,729	10,564	11,664	8,119	23,912	16,612	8,396	18,585	7,338	3,358	127,369
Grouper, warsaw	709	961	614	601	751	758	2,802	1,787	234	331	387	191	10,126
Grouper, yellowfin	0	0	0	0	2,050	0	11,533	16,313	0	0	0	0	29,896
Gulf butterfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingfish, unclassified	314	74	51	0	0	0	3,040	650	241	0	130	347	4,847
Mackerel, king	0	0	0	0	0	0	0	4,058	66	1,667	0	0	5,791
Mackerel, Spanish	11	0	0	0	0	0	0	0	107	0	0	0	118
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Seatrout, sand	0	0	0	0	0	0	0	0	0	0	0	0	0
Shark, blacktip	0	0	0	0	0	0	0	0	0	128	0	109	237
Shark, shortfin mako	0	100	0	0	0	0	0	0	0	137	0	25	262
Shark, unclassified	14	654	341	513	1,021	160	152	281	102	0	85	0	3,323
Sheepshead	0	161	422	421	633	247	130	0	0	0	161	0	2,175
Snapper, red	10,797	13,400	16,444	7,853	23,806	3,862	11,271	20,717	18,872	12,341	9,357	9,251	158,445
Snapper, unclassified	85	617	45	5,552	3,346	512	5,928	2,507	25	7	192	368	8,659
Snapper, vermillion	0	1,525	0	0	0	0	0	1,665	670	167	672	0	13,699
Swordfish	0	84	2,368	0	4,879	0	15,616	20,227	4,135	10,633	3,048	6,767	67,757
Tilefish	0	0	0	0	0	0	23	0	0	0	0	0	23
Triggrerfish, gray	0	0	0	0	0	0	325	0	0	0	0	0	325
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, bluefin	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, unclassified	0	144	0	0	1,243	457	432	78	32	16	0	0	2,370
Tuna, yellowfin	0	0	0	0	0	0	151	0	21	0	0	47	219
Unclassified food	3,253	1,162	4,033	10,346	5,468	1,610	1,417	418	317	1,626	183	136	29,969
Unclassified scrap	0	0	142	143	0	0	0	0	0	0	0	0	285
Wahoo	0	0	0	0	0	0	0	0	0	123	0	0	123
<b>Total finfish</b>	20,815	27,626	29,943	37,566	57,426	16,457	82,504	92,017	33,990	47,318	23,799	21,699	491,826
<b>SHELLFISH</b>													
Blue crab	0	0	0	0	1,777	605	967	0	3,723	404	650	0	8,126
Squid, unclassified	193	39	14	0	0	71	0	0	29	0	0	0	346
Stone crab	0	0	0	0	0	0	0	0	272	0	0	0	272
<b>Total Shellfish</b>	193	39	14	0	1,777	676	967	0	4,024	404	650	0	8,744
<b>Grand total</b>	21,008	27,665	29,957	37,566	59,203	17,133	83,471	92,017	38,014	47,722	24,449	21,699	500,570



Table E.4. Ex-vessel value (\$) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 18.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Atlantic croaker	0	0	39	0	0	0	0	175	79	0	4	56	314
Black drum	0	34	40	37	200	6	0	53	0	0	48	14	432
Bluefish	0	0	0	0	0	0	0	0	46	0	67	0	90
Cobia	0	10	6	16	64	121	20	291	17	0	1	38	580
Codfishes, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Crevaille, jack	0	0	0	0	0	0	0	0	0	0	0	0	0
Cusk eel	0	0	0	0	0	0	0	68	0	0	0	0	68
Dolphin	4	0	0	0	60	15	384	69	21	9	5	45	609
Florida pompano	0	0	0	0	0	0	0	0	0	0	0	0	0
Flounder, unclassified	47	23	85	4	323	252	868	14	33	0	279	384	2,312
Gafftopsail catfish	0	0	0	0	0	8	6	0	0	8	0	19	41
Great barracuda	0	0	0	0	0	0	0	0	31	0	0	0	31
Greater amberjack	105	171	214	686	760	117	2,334	3,049	368	839	606	252	9,589
Grouper, scamp	80	111	0	0	1,033	128	198	1,051	70	420	196	0	3,287
Grouper, unclassified	9,109	13,732	8,032	18,561	20,555	14,617	38,352	28,345	8,275	34,267	13,177	5,873	218,434
Grouper, warsaw	922	1,250	798	781	1,119	948	3,503	2,145	285	397	484	239	12,871
Grouper, yellowfin	0	0	0	0	4,100	0	18,453	28,548	0	0	0	0	51,101
Gulf butterfish	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingfish, unclassified	112	19	18	0	0	0	2,246	228	84	0	33	103	2,843
Mackerel, king	0	0	0	0	0	0	0	3,044	66	2,000	0	0	5,090
Mackerel, Spanish	3	0	0	0	0	0	0	0	107	0	0	0	46
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Seatrout, sand	0	0	0	0	0	0	0	0	0	0	0	0	0
Shark, blacktip	0	0	0	0	0	0	0	0	0	0	0	0	0
Shark, shortfin mako	0	105	0	0	0	0	0	0	0	83	0	55	138
Shark, unclassified	6	262	136	261	459	64	78	118	51	0	38	13	255
Sheepshead	0	64	158	136	221	91	57	0	0	0	46	0	1,473
Snapper, red	24,146	29,790	37,742	17,962	59,909	8,938	26,771	46,509	18,872	28,333	22,330	21,824	364,889
Snapper, unclassified	184	1,019	78	11,097	5,321	1,024	8,916	3,152	25	11	336	0	12,453
Snapper, vermilion	0	4,575	0	0	0	0	0	2,498	670	292	1,177	626	24,326
Swordfish	0	69	2,960	0	4,537	0	17,178	26,295	5,169	10,633	3,048	6,767	76,656
Tilefish	0	0	0	0	0	0	15	0	0	0	0	0	15
Triggerfish, gray	0	0	0	0	0	0	163	0	0	0	0	0	163
Tuna, blackfin	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, bluefin	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuna, unclassified	0	176	0	0	459	457	629	31	0	6	0	0	1,758
Tuna, yellowfin	0	0	0	0	0	0	227	0	32	0	0	71	330
Unclassified food	1,631	465	1,412	4,236	2,397	644	662	125	159	603	58	54	12,446
Unclassified scrap	0	0	85	21	0	0	0	0	0	0	0	0	106
Wahoo	0	0	0	0	0	0	0	0	0	123	0	0	123
<b>Total finfish</b>	<b>36,349</b>	<b>51,875</b>	<b>51,803</b>	<b>53,798</b>	<b>101,517</b>	<b>27,530</b>	<b>121,060</b>	<b>145,808</b>	<b>60,950</b>	<b>78,161</b>	<b>41,933</b>	<b>36,433</b>	<b>808,217</b>
<b>SHELLFISH</b>													
Blue crab	0	0	0	0	744	303	484	0	1,828	141	325	0	3,825
Squid, unclassified	68	8	4	0	0	18	0	0	12	0	0	0	110
Stone crab	0	0	0	0	0	0	0	0	101	0	0	0	101
<b>Total Shellfish</b>	<b>68</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>744</b>	<b>321</b>	<b>484</b>	<b>0</b>	<b>1,941</b>	<b>141</b>	<b>325</b>	<b>0</b>	<b>4,036</b>
<b>Grand total</b>	<b>36,417</b>	<b>51,883</b>	<b>51,807</b>	<b>53,798</b>	<b>102,261</b>	<b>27,751</b>	<b>121,544</b>	<b>145,808</b>	<b>62,891</b>	<b>78,302</b>	<b>42,258</b>	<b>36,433</b>	<b>812,253</b>

Table E.5. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	360	196	0	156	2,369	7	0	0	0	0	185	34	3,307
Bluefish	0	0	42	0	0	0	0	0	0	0	0	0	42
Cobia	0	70	319	176	250	437	234	373	0	365	246	0	2,470
Crevalle, jack	0	0	0	0	0	0	0	0	0	0	0	0	0
Cusk eel	0	0	52	52	0	0	0	11	57	6	21	11	210
Dolphin	0	47	0	0	0	328	6	3	11	0	0	0	395
Florida pompano	0	0	0	0	0	0	0	10	0	0	0	0	10
Flounder, unclassified	2,581	1,212	813	1,173	1,967	1,141	1,642	1,639	2,107	4,000	6,190	4,396	28,861
Gaftopsail catfish	0	0	0	0	0	0	0	0	139	0	0	0	139
Greater amberjack	0	2,676	3,759	15,871	4,189	1,084	876	3,001	2,102	2,635	5,080	3,968	46,437
Grouper, Black	0	61	0	442	110	0	0	0	0	0	0	0	613
Grouper, Jewfish	0	0	98	0	0	0	0	77	0	0	0	0	175
Grouper, scamp	0	145	735	66	96	104	0	85	61	409	87	217	2,005
Grouper, unclassified	316	428	9,058	10,414	9,623	702	348	257	348	942	4,673	520	37,629
Grouper, warsaw	124	2,639	2,802	4,607	2,457	1,173	768	2,099	466	1,836	1,186	2,743	22,900
Grouper, yellowedge	0	0	0	7,730	0	8,206	0	6,199	822	1,454	0	8,215	32,626
Grouper, yellowfin	0	15,872	19,615	17,069	0	0	180	0	0	0	0	0	52,736
Kingfish, southern	0	0	0	0	0	61	627	0	0	0	0	0	688
Kingfish, unclassified	370	102	595	66	841	47	23	507	248	1,118	2,129	3,336	9,382
Mullet, unclassified	0	185	0	0	0	0	0	0	0	486	0	0	671
Shark, blacktip	0	0	118	222	0	0	0	0	73	51	0	0	464
Shark, shortfin mako	0	0	93	0	0	0	0	0	0	0	0	0	93
Shark, unclassified	0	922	1,899	2,708	1,783	1,607	107	1,253	174	12	241	0	10,706
Sheepshead	0	511	19	276	83	50	0	0	0	0	96	0	1,035
Snapper, red	7,469	12,831	21,329	40,456	8,647	13,971	4,690	9,783	9,127	21,406	7,535	12,492	170,212
Snapper, unclassified	938	363	3,142	1,022	2,433	591	369	361	334	179	1,715	354	11,801
Snapper, vermillion	0	0	377	658	1,583	0	0	0	0	0	228	1,167	4,013
Swordfish	0	1,902	1,124	0	0	0	0	0	0	0	0	0	3,026
Tilefish	0	6,054	13,659	15,302	12,902	2,916	3,751	7,843	7,496	2,953	277	357	73,510
Triggerfish, gray	44	0	0	14	149	0	0	0	0	0	0	0	207
Tuna, blackfin	0	0	0	0	0	0	0	0	0	94	0	0	94
Tuna, unclassified	0	0	0	0	0	872	0	209	0	0	119	0	1,200
Tuna, yellowfin	0	188	0	0	0	0	0	0	0	0	0	0	188
Unclassified food	0	0	23	62	37	0	0	0	152	0	0	0	274
Unclassified scrap	475	200	0	0	0	0	0	0	0	0	0	0	675
Wahoo	0	0	0	0	0	16	0	49	12	0	0	0	77
<b>Total finfish</b>	<b>12,677</b>	<b>46,604</b>	<b>79,871</b>	<b>118,542</b>	<b>49,519</b>	<b>33,313</b>	<b>13,621</b>	<b>33,759</b>	<b>23,729</b>	<b>37,946</b>	<b>30,008</b>	<b>37,810</b>	<b>518,871</b>
<b>SHELLFISH</b>													
Blue crab	0	0	1,025	1,702	1,799	6,137	7,511	25,143	246	0	0	0	43,563
Spiny lobster	0	0	0	0	0	0	0	0	0	0	0	0	0
Squid, unclassified	229	203	51	0	1,600	24	462	346	62	89	83	101	3,250
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shellfish</b>	<b>229</b>	<b>203</b>	<b>1,076</b>	<b>1,702</b>	<b>3,399</b>	<b>6,161</b>	<b>7,973</b>	<b>25,489</b>	<b>308</b>	<b>89</b>	<b>83</b>	<b>101</b>	<b>46,813</b>
<b>Grand total</b>	<b>12,906</b>	<b>46,807</b>	<b>80,947</b>	<b>120,244</b>	<b>52,918</b>	<b>39,474</b>	<b>21,594</b>	<b>59,248</b>	<b>24,037</b>	<b>38,035</b>	<b>30,091</b>	<b>37,911</b>	<b>565,684</b>

Table E. 6. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 19.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	90	39	0	34	4,350	2	0	0	0	0	0	10	4,633
Bluefish	0	0	18	0	0	0	0	0	0	0	0	0	18
Cobia	0	58	230	127	198	345	175	243	0	248	176	0	1,800
Crevalle jack	0	0	0	0	0	0	0	0	0	0	0	0	0
Cusk eel	0	0	13	52	0	0	0	10	25	6	19	11	136
Dolphin	0	20	0	0	0	375	3	4	9	0	0	0	411
Florida pompano	0	0	0	0	0	0	0	10	0	0	0	0	10
Flounder, unclassified	2,211	1,122	765	1,172	1,425	1,210	1,484	1,698	2,184	3,549	5,210	3,762	25,792
Gaftopsail catfish	0	0	0	0	0	0	0	0	313	0	0	0	313
Greater amberjack	0	1,940	2,791	12,468	2,773	626	444	1,902	1,738	1,696	4,655	2,738	34,677
Grouper, black	0	84	0	416	150	0	0	0	0	0	0	0	650
Grouper, jewfish	0	0	83	0	0	0	0	96	0	0	0	0	179
Grouper, scamp	0	230	1,142	63	134	128	0	72	103	453	113	321	2,750
Grouper, unclassified	255	393	11,775	15,739	12,754	898	409	307	540	914	6,601	677	51,262
Grouper, warsaw	87	1,652	2,257	5,082	2,243	1,074	721	2,107	444	2,019	1,387	2,928	22,001
Grouper, yellowedge	0	0	0	11,416	0	10,749	0	8,431	1,168	2,055	0	12,158	45,977
Grouper, yellowfin	0	24,919	28,945	25,262	0	0	189	0	0	0	0	0	79,315
Kingfish, southern	0	0	0	0	0	18	163	0	0	0	0	0	181
Kingfish, unclassified	111	31	179	31	281	24	12	138	74	333	637	1,001	2,852
Mullet, unclassified	0	65	0	0	0	0	0	0	0	122	0	0	187
Shark, blacktip	0	0	71	92	0	0	0	0	37	13	0	0	213
Shark, shortfin mako	0	0	77	0	0	0	0	0	0	0	0	0	77
Shark, unclassified	0	470	849	802	591	643	50	776	70	6	76	0	4,333
Sheepshead	0	102	4	83	22	15	0	0	0	0	24	0	250
Snapper, red	13,273	25,824	46,055	85,054	15,985	24,203	7,745	16,973	14,675	35,201	11,870	20,421	317,624
Snapper, unclassified	1,389	523	6,513	1,503	5,961	831	477	491	397	225	2,137	482	20,929
Snapper, vermillion	0	0	483	834	2,331	0	0	0	0	0	338	1,751	5,737
Swordfish	0	5,995	3,153	0	0	0	0	0	0	0	0	0	9,148
Tilefish	0	7,020	13,300	18,867	8,257	3,281	4,747	8,100	8,474	2,967	374	276	75,663
Triggerfish, gray	29	0	0	7	88	0	0	0	0	0	0	0	124
Tuna, blackfin	0	0	0	0	0	0	0	0	21	0	0	0	21
Tuna, unclassified	0	0	0	0	0	697	0	48	0	0	133	0	878
Tuna, yellowfin	0	301	0	0	0	0	0	0	0	0	0	0	301
Unclassified food	0	0	12	21	15	0	0	0	50	0	0	0	98
Unclassified scrap	71	30	0	0	0	0	0	0	0	0	0	0	101
Wahoo	0	0	0	0	0	14	0	42	10	0	0	0	66
<b>Total finfish</b>	<b>17,516</b>	<b>70,818</b>	<b>118,715</b>	<b>179,125</b>	<b>57,558</b>	<b>45,133</b>	<b>16,619</b>	<b>41,431</b>	<b>30,311</b>	<b>49,828</b>	<b>33,858</b>	<b>46,536</b>	<b>708,716</b>
<b>SHELLFISH</b>													
Blue crab	0	0	256	426	450	1,534	1,878	8,375	62	0	0	0	12,981
Spiny lobster	0	0	0	0	0	0	0	0	0	0	0	0	0
Squid, unclassified	69	61	15	0	366	6	110	87	16	79	25	26	860
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shellfish</b>	<b>69</b>	<b>61</b>	<b>271</b>	<b>426</b>	<b>816</b>	<b>1,540</b>	<b>1,988</b>	<b>8,462</b>	<b>78</b>	<b>79</b>	<b>25</b>	<b>26</b>	<b>13,841</b>
<b>Grand total</b>	<b>17,585</b>	<b>70,879</b>	<b>118,986</b>	<b>179,551</b>	<b>58,374</b>	<b>46,673</b>	<b>18,607</b>	<b>49,893</b>	<b>30,389</b>	<b>49,907</b>	<b>33,883</b>	<b>46,562</b>	<b>722,557</b>

Table E.7. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	218	10	23,149	9,469	0	0	9	0	0	0	0	226	33,071
Blue fish	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	0	0	19	105	543	497	838	536	162	69	0	33	2,802
Cusk eel	0	0	208	127	208	0	0	0	0	0	0	0	543
Dolphin	0	0	0	0	113	271	584	68	45	20	0	0	1,101
Florida pompano	0	0	7	16	5	0	0	0	0	4	0	0	32
Flounder, unclassified	145	236	697	811	3,387	1,015	815	25	354	443	4,614	1,692	14,234
Gafftopsail catfish	0	0	0	0	168	0	0	0	0	0	0	0	168
Greater amberjack	1,924	705	8,955	28,867	23,956	3,210	9,143	8,907	1,435	867	372	2,777	91,118
Grouper, black	0	0	0	0	126	0	0	0	0	0	0	0	126
Grouper, jewfish	0	0	0	0	78	84	154	0	0	0	0	0	316
Grouper, scamp	0	0	0	0	48	0	0	0	0	0	0	0	48
Grouper, unclassified	54	995	735	993	225	166	11,524	9,180	419	79	1,492	1,779	27,628
Grouper, yellowedge	0	234	0	0	31,693	0	8,386	0	0	0	0	25	40,313
Grouper, warsaw	1,593	265	996	0	8,082	0	313	457	0	0	576	0	12,282
Grouper, yellowfin	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingfish, unclassified	0	0	270	0	176	0	0	78	0	0	0	0	524
Mackerel, King	0	0	0	0	0	0	388	0	0	0	0	0	388
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	0	0	0	0
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0
Shark, blacktip	0	0	0	0	150	0	396	0	0	0	531	0	546
Shark, shortfin mako	171	0	0	0	0	0	0	0	0	0	0	0	171
Shark, unclassified	156	689	321	681	1,712	3,153	990	1,708	47	464	0	0	9,921
Sheepshead	10	2,100	2,753	75	114	0	0	0	0	0	40	0	5,092
Snapper, red	6,760	2,183	4,491	2,550	43,892	1,721	5,988	14,995	5,123	6,698	958	7,186	102,392
Snapper, unclassified	0	25	970	85	5,564	0	28	10	25	212	0	0	6,919
Snapper, vermillion	0	0	453	0	83	0	0	0	0	0	0	0	442
Swordfish	2,108	0	0	20	0	74	0	0	0	0	0	0	2,202
Tilefish	17,534	0	0	0	11,094	30	22,503	15,576	0	0	0	0	66,737
Triggerfish, gray	0	0	0	0	314	0	0	0	0	0	0	0	314
Tuna, blackfin	44	0	0	0	0	0	0	0	0	0	0	0	44
Tuna, yellowfin	4,741	0	0	0	0	276	0	0	0	0	0	0	5,017
Tuna, unclassified	0	0	0	0	0	170	969	170	0	2,166	0	0	3,475
Unclassified food	0	0	0	0	0	0	265	578	0	0	15	294	1,152
Wahoo	0	0	0	0	95	79	60	0	0	0	0	0	234
<b>Total finfish</b>	<b>35,458</b>	<b>7,432</b>	<b>44,024</b>	<b>43,799</b>	<b>131,715</b>	<b>10,746</b>	<b>63,353</b>	<b>52,288</b>	<b>7,610</b>	<b>11,022</b>	<b>8,598</b>	<b>13,987</b>	<b>429,883</b>
<b>SHELLFISH</b>													
Blue crab	0	0	0	0	0	0	0	0	0	500	0	0	500
Shovelnose lobster	0	0	32	36	0	24	0	0	0	0	0	0	92
Squid, unclassified	0	0	55	1,322	287	181	17	235	0	0	0	0	2,097
Stone crab	0	0	0	0	0	0	0	0	0	0	3,284	0	3,284
<b>Total Shellfish</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>1,358</b>	<b>287</b>	<b>205</b>	<b>17</b>	<b>235</b>	<b>0</b>	<b>500</b>	<b>3,284</b>	<b>0</b>	<b>5,973</b>
<b>Grand total</b>	<b>35,458</b>	<b>7,432</b>	<b>44,111</b>	<b>45,157</b>	<b>132,002</b>	<b>10,951</b>	<b>63,370</b>	<b>52,523</b>	<b>7,610</b>	<b>11,522</b>	<b>11,882</b>	<b>13,987</b>	<b>435,856</b>

Table E.8. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 20.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	192	0	22,299	9,130	0	0	12	0	0	0	0	68	31,701
Blue fish	0	0	0	0	0	0	0	0	0	0	0	0	0
Cobia	0	0	18	93	496	422	721	480	157	48	0	25	2,460
Cusk eel	0	0	48	72	141	0	0	0	0	0	0	0	261
Dolphin	0	0	0	0	104	291	497	57	45	18	0	0	1,012
Florida pompano	0	0	7	15	5	0	0	0	0	3	0	0	30
Flounder, unclassified	131	142	720	528	3,382	552	697	13	184	310	5,216	981	12,856
Gafftopsail catfish	0	0	0	0	40	0	0	0	0	0	0	0	40
Greater amberjack	2,400	529	5,929	18,231	12,213	2,166	5,393	8,094	1,168	847	320	3,041	60,331
Grouper, black	0	0	0	0	160	0	0	0	0	0	0	0	160
Grouper, jewfish	0	0	0	0	98	96	193	0	0	0	0	0	387
Grouper, scamp	0	0	0	0	55	0	0	0	0	0	0	0	55
Grouper, unclassified	81	1,248	843	1,371	209	191	9,159	13,554	567	73	2,387	2,611	32,284
Grouper, yellowedge	0	304	0	0	39,240	0	9,160	0	0	0	0	0	48,704
Grouper, warsaw	1,961	333	867	0	6,658	0	299	562	0	0	415	22	11,095
Grouper, yellowfin	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingfish, unclassified	0	0	70	0	39	0	0	74	0	0	0	0	183
Mackerel, King	0	0	0	0	0	0	338	0	0	0	0	0	338
Mackerel, Spanish	0	0	0	0	0	0	0	0	0	0	0	0	0
Mullet, unclassified	0	0	0	0	0	0	0	0	0	0	53	0	53
Shark, blacktip	142	0	0	0	113	0	202	0	0	0	0	0	315
Shark, shortfin mako	0	0	0	0	0	0	0	0	0	0	0	0	142
Shark, unclassified	56	276	158	413	833	1,813	349	846	32	80	0	0	4,856
Sheepshead	6	735	1,189	32	25	0	0	0	0	0	14	0	2,001
Snapper, red	13,893	3,741	9,216	5,743	64,654	3,197	10,471	30,143	10,195	7,685	971	12,723	172,322
Snapper, unclassified	0	25	1,872	174	9,504	0	39	12	43	424	0	0	12,093
Snapper, vermilion	0	0	456	0	110	0	0	0	0	0	0	0	566
Swordfish	6,120	0	0	77	0	259	0	0	0	0	0	0	6,456
Tilefish	22,009	0	0	0	10,717	38	22,740	17,912	0	0	0	0	73,416
Triggerfish, gray	0	0	0	0	160	0	0	0	0	0	0	0	160
Tuna, blackfin	20	0	0	0	0	0	0	0	0	0	0	0	20
Tuna, yellowfin	6,809	0	0	0	0	0	657	0	0	0	0	0	7,466
Tuna, unclassified	0	0	0	0	0	153	758	34	0	1,225	0	0	2,170
Unclassified food	0	0	0	0	0	0	241	232	0	0	7	347	827
Wahoo	0	0	0	0	82	103	51	0	0	0	0	0	236
<b>Total finfish</b>	<b>53,820</b>	<b>7,383</b>	<b>43,692</b>	<b>35,879</b>	<b>148,802</b>	<b>9,938</b>	<b>61,320</b>	<b>72,013</b>	<b>12,381</b>	<b>10,713</b>	<b>9,383</b>	<b>19,796</b>	<b>484,851</b>
<b>SHELLFISH</b>													
Blue crab	0	0	0	0	0	0	0	0	0	230	0	0	230
Shovelnose lobster	0	0	128	68	0	60	0	0	0	0	0	0	256
Squid, unclassified	0	0	44	343	72	91	4	106	0	0	0	0	660
Stone crab	0	0	0	0	0	0	0	0	0	0	2,200	0	2,200
<b>Total Shellfish</b>	<b>0</b>	<b>0</b>	<b>172</b>	<b>411</b>	<b>72</b>	<b>151</b>	<b>4</b>	<b>106</b>	<b>0</b>	<b>230</b>	<b>2,200</b>	<b>0</b>	<b>3,346</b>
<b>Grand total</b>	<b>53,820</b>	<b>7,383</b>	<b>43,864</b>	<b>36,290</b>	<b>148,874</b>	<b>10,089</b>	<b>61,324</b>	<b>72,119</b>	<b>12,391</b>	<b>10,943</b>	<b>17,583</b>	<b>19,796</b>	<b>488,342</b>

Table E.9. Weight (lb) of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1988. Data based on MMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	4,907	4,790	200	0	0	0	0	0	0	0	0	0	9,897
Cobia	0	13	0	0	0	98	0	0	0	35	15	0	161
Dolphin	0	0	0	0	0	0	82	30	132	5	0	33	282
Florida pompano	7	4	0	0	0	0	0	0	0	0	0	0	11
Flounder, unclassified	41	71	0	0	25	12	43	0	34	209	21	409	865
Greater amberjack	1,510	1,370	40	620	627	93	1,156	547	2,379	2,579	1,623	2,990	15,198
Grouper, scamp	189	170	72	168	97	0	95	0	182	559	17	71	1,620
Grouper, unclassified	67	0	18	454	107	0	1,161	1,848	697	1,119	217	135	5,823
Grouper, warsaw	303	342	128	963	1,569	35	451	575	1,138	2,324	1,292	1,365	10,485
Grouper, yellowedge	0	0	0	0	0	0	0	0	0	0	0	210	210
Grouper, yellowfin	18	28	5	298	5,952	0	0	0	0	0	0	0	6,301
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	620	0	0	620
Shark, unclassified	806	177	1,025	22	1,000	0	262	1,119	1,548	1,074	7	254	7,294
Sheepshead	575	70	4,421	2	1	0	3	5	0	6	1	23	5,107
Snapper, lane	0	0	0	0	0	0	0	0	0	0	0	0	0
Snapper, red	8,989	10,404	4,022	10,789	10,069	966	21,302	29,694	41,552	81,603	6,570	46,683	272,643
Snapper, unclassified	0	0	0	0	0	0	0	0	0	0	15,725	0	15,725
Snapper, vermillion	450	252	20	651	1,384	0	497	99	1,276	727	367	501	6,224
Snapper, yellowtail	0	0	0	0	0	0	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	460	0	223	1,345	428	1,804	4,260
Triggrerfish, gray	0	0	0	0	0	0	0	0	0	103	0	16	119
Tuna, unclassified	12,682	0	0	0	0	0	11,951	2,347	1,462	1,809	173	533	30,957
Tuna, yellowfin	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	20	0	0	0	0	9	0	0	0	36	21	86
Wahoo	0	0	0	0	0	0	434	76	24	87	0	0	621
<b>Total finfish</b>	<b>30,544</b>	<b>17,711</b>	<b>9,951</b>	<b>13,911</b>	<b>20,831</b>	<b>1,204</b>	<b>37,906</b>	<b>36,220</b>	<b>50,647</b>	<b>94,204</b>	<b>26,492</b>	<b>55,048</b>	<b>394,509</b>
<b>SHELLFISH</b>													
Blue crab	0	250	0	0	104	117	222	0	0	103	105	0	901
Squid, unclassified	40	364	66	0	158	0	0	0	0	0	0	0	628
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shellfish</b>	<b>40</b>	<b>614</b>	<b>66</b>	<b>0</b>	<b>262</b>	<b>117</b>	<b>222</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>105</b>	<b>0</b>	<b>1,529</b>
<b>Grand total</b>	<b>30,584</b>	<b>18,325</b>	<b>10,017</b>	<b>13,911</b>	<b>21,093</b>	<b>1,321</b>	<b>38,128</b>	<b>36,220</b>	<b>50,647</b>	<b>94,307</b>	<b>26,597</b>	<b>55,048</b>	<b>396,301</b>

Table E.10. Ex-vessel (\$) value of each species, except shrimp, landed commercially from Gulf of Mexico grid zone 21.0 during 1988. Data based on WMPR.

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>FINFISH</b>													
Black drum	2,944	3,832	400	0	0	0	0	0	0	0	0	0	7,176
Cobia	0	13	0	0	0	98	0	0	0	33	11	0	155
Dolphin	0	0	0	0	0	0	103	38	146	5	0	33	325
Florida pompano	11	8	0	0	0	0	0	0	0	0	0	0	19
Flounder, unclassified	57	63	0	0	36	18	65	0	51	273	26	425	1,014
Greater amberjack	820	762	20	307	314	0	806	214	1,481	1,566	990	2,032	9,249
Grouper, scamp	189	170	65	84	49	0	48	0	91	280	9	40	1,025
Grouper, unclassified	84	0	27	545	161	60	1,522	2,768	1,010	1,514	305	153	8,084
Grouper, warsaw	152	225	134	574	825	53	367	404	672	1,363	683	777	6,229
Grouper, yellowedge	0	0	0	0	0	0	0	0	0	0	0	281	281
Grouper, yellowfin	18	28	5	268	5,357	0	0	0	0	0	0	0	5,676
Kingfish, unclassified	0	0	0	0	0	0	0	0	0	186	0	0	186
Shark, unclassified	382	57	268	4	200	0	183	408	399	500	4	51	2,456
Sheepshead	121	27	884	0	0	0	1	1	1	1	0	5	1,040
Snapper, lane	0	0	0	0	0	0	0	0	0	0	0	0	0
Snapper, red	13,611	17,554	6,935	16,740	15,903	2,270	48,100	68,706	84,294	149,515	11,393	88,874	523,896
Snapper, unclassified	0	0	0	0	0	0	0	0	0	0	31,450	0	31,450
Snapper, vermilion	450	252	20	651	1,384	0	497	99	1,276	727	492	615	6,463
Snapper, yellowtail	0	0	0	0	0	0	0	0	0	0	0	0	0
Swordfish	0	0	0	0	0	0	1,610	0	613	3,564	1,434	6,945	14,166
Triggerfish, gray	0	0	0	0	0	0	0	0	0	26	0	3	29
Tuna, unclassified	36,271	0	0	0	0	0	17,927	2,347	2,924	2,199	173	1,214	63,055
Tuna, yellowfin	0	0	0	0	0	0	0	0	0	0	0	0	0
Unclassified food	0	20	0	0	0	0	2	0	0	0	18	11	51
Wahoo	0	0	0	0	0	0	543	95	30	74	0	0	742
<b>Total finfish</b>	55,110	23,011	8,758	19,148	24,229	2,439	71,769	75,080	92,987	161,827	46,988	101,459	682,767
<b>SHELLFISH</b>													
Blue crab	0	263	0	0	84	129	244	0	0	113	105	0	938
Squid, unclassified	20	109	33	0	79	0	0	0	0	0	0	0	241
Stone crab	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Shellfish</b>	20	372	33	0	163	129	244	0	0	113	105	0	1,179
<b>Grand total</b>	55,130	23,383	8,791	19,148	24,392	2,568	72,013	75,080	92,987	161,940	47,093	101,459	683,946

Table E.11. Weight (lb) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during 1988. Data based on NMFS.

Month	Brown and Pink	White	Other	Total
January	1,010,530	66,531	25,987	1,103,048
February	1,412,571	92,998	91,626	1,597,195
March	646,044	107,422	372,350	1,125,816
April	911,642	201,646	996,535	2,109,823
May	2,128,889	275,394	1,064,467	3,468,750
June	3,540,962	347,696	1,109,996	4,998,654
July	12,274,501	338,357	195,155	12,808,013
August	8,405,779	842,386	9,019	9,257,184
September	4,969,227	1,886,984	11,835	6,868,046
October	5,322,326	2,578,932	104,108	8,005,366
November	3,382,985	1,720,212	436,869	5,540,066
December	2,911,599	623,334	249,065	3,783,998
Total	46,914,467	9,081,492	4,667,012	60,662,971



Table E.12. Ex-vessel value (\$) of each shrimp species (heads-on) landed commercially from the Gulf of Mexico during 1988. Data based on NMFS.

Month	Brown and Pink	White	Other	Total
January	3,198,048	131,309	19,463	3,348,820
February	4,516,318	214,682	65,298	4,796,298
March	2,312,802	211,574	232,849	2,757,225
April	2,839,987	610,796	668,262	4,119,045
May	5,267,476	1,147,898	479,900	6,895,274
June	7,115,647	1,447,433	534,313	9,097,393
July	22,688,357	1,486,557	93,190	24,268,104
August	20,033,280	1,418,448	4,293	21,456,021
September	14,523,731	4,037,547	5,895	18,567,173
October	16,623,272	6,953,948	63,699	23,640,919
November	10,757,788	4,014,932	248,215	15,020,935
December	9,231,418	1,547,569	129,247	10,908,234
Total	119,102,748	23,222,433	2,544,624	144,871,500

Appendix F. Weight (lb) and ex-vessel value (\$) of menhaden caught off Texas but landed commercially in Louisiana during 1977-1988.

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 1977-1988. 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
1988	80,485.1	4,185.2

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 1977-1988.

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 1977-1988. 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
1988	43	2,322.0	801.5	2,002.2

Table G.2. Total weight (lb x 1000) of Eastern oyster meat transplanted to private oyster leases in Texas bay systems during 1978<sup>a</sup>-1988. 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	1,025.6	338.4	340.7	251.6	189.4	146.3	0	0	0	2,292.1
1988	0	0	0	0	1,424.3	360.8	0	80.5	73.9	4.9	0	0	0	1,988.5

<sup>a</sup>Data 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<sup>a</sup>-1988. 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
1988	4.8	51.4	77.4	96.4	31.1	168.4	134.8	73.4	32.6	83.8	8.2	12.0	0	774.5

<sup>a</sup>Data prior to 1978 not available.

Appendix H. Number of commercial licenses sold in Texas in each fiscal year (September-August) from 1956 through 1988.

Table H.1. Number of commercial dealer licenses sold in Texas in each fiscal year from 1956 through 1988<sup>a</sup>. The sale of a license occurs when money is received in Austin.

Fiscal Year	Retail Fish <sup>b</sup>			Retail		Bait	Whole-		Shrimp house operator	Bait shrimp	Menhaden fish plant
	Large	Medium	Small	fish truck	oyster		fish sale	fish truck			
1956	2,675	1,444	3,888	75	0	3,936	157	96	0	0	0
1957	2,691	1,425	3,841	80	0	3,533	155	88	0	0	0
1958	2,792	1,376	3,639	84	0	4,391	1,450	76	0	0	0
1959	2,809	1,593	3,963	84	0	5,007	171	73	6	25	0
1960	3,163	1,491	3,775	86	0	4,043	175	81	18	582	0
1961	3,390	1,499	3,482	78	12	3,865	185	87	9	528	2
1962	3,388	1,549	3,564	63	0	3,421	187	72	10	502	5
1963	3,414	1,594	3,437	88	2	3,192	201	83	16	500	1
1964	3,485	1,650	3,688	76	0	3,260	205	69	29	476	3
1965	3,435	1,598	3,585	73	1	3,034	209	71	36	412	2
1966	3,467	1,617	3,559	65	0	2,968	234	78	28	417	1
1967	3,433	1,573	3,492	46	0	3,272	227	69	29	416	1
1968	3,455	1,619	3,477	57	1	3,030	241	74	37	432	1
1969	3,545	1,645	3,441	50	0	3,071	203	67	31	405	1
1970	3,574	1,599	3,481	53	0	3,169	211	62	33	408	1
1971	3,639	1,585	3,418	73	0	3,214	225	62	34	397	1
1972	3,761	1,518	3,382	97	0	3,146	219	52	33	439	1
1973	3,694	1,551	3,363	122	0	2,928	219	65	33	430	1
1974	3,721	1,481	2,794	167	0	2,471	251	54	27	417	0
1975	3,639	1,438	2,725	436	0	2,692	250	58	26	417	0
1976	3,513	1,449	2,717	490	0	3,000	241	54	27	423	0
1977	3,002	1,330	2,703	599	0	3,019	260	67	25	422	0
1978	2,919	1,301	2,718	789	0	2,994	260	77	27	420	0
1979	2,818	1,211	2,668	602	1	2,874	254	60	28	477	0
1980	2,524	1,174	2,494	541	1	2,856	265	44	30	477	0
1981	2,481	1,153	2,370	885	3	2,773	254	52	27	500	0
1982	2,256	1,147	2,246	1,287	2	2,831	307	83	29	520	0
1983	4,755	1,108	2,222	1,175	3	2,980	329	108	47	692	0
1984 <sup>c</sup>	6,009			980	0	2,975	394	72	33	569	0
1985	2,683			932	0	1,393	251	72	19	380	0
1986	6,356			1,071	0	4,062	465	92	37	620	0
1987	4,005			907		2,730	374	97	32	495	0
1988	4,164			793	0	2,682	478	97	23	526	0

<sup>a</sup> License data are not additive across columns for any row since dealers may have multiple licenses.

<sup>b</sup> 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.

<sup>c</sup> 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 1988. The sale of a license occurs when money is received in Austin.

Fiscal Year	General						Finfish			
	Tidal water	Red drum	Resident <sup>a</sup>		Non- <sup>b</sup>		Resident	Non-resident <sup>b</sup>	Menhaden only	Import
			Fisherman	Vessel	Fisherman	Vessel				
1956										
1957										
1958										
1959										
1960										
1961										
1962										
1963										
1964										
1965										
1966										
1967										
1968										
1969										
1970										
1971										
1972										
1973										
1974										
1975										
1976										
1977										
1978			541							
1979	30,644	605							558	
1980	2,127	636							80	
1981	52	635								
1982										336
1983										268
1984										198
1985										190
1986										200
1987										193
1988										158

<sup>a</sup> Until 1979 there were no divisions in the General Commercial Fishing Licenses.

<sup>b</sup> 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 1988. The sale of a license occurs when money is received in Austin. Total non-resident licenses sold are within parentheses.

Fiscal year	Saltwater		Seine tags	Commercial		Mussel dredge permit (power)
	trotline tags			oyster dredge <sup>a</sup>		
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	
1988	9,810		7,208	870 (73)	0	

<sup>a</sup>Commercial oyster dredge license not required for fishermen holding commercial bay or bait shrimp boat licenses from 1971 through 1987.

Table H.4. Number of commercial saltwater boat and vessel licenses sold in Texas in each fiscal year from 1956 through 1988<sup>a</sup>. The sale of a license occurs when money is received in Austin. Total non-resident licenses sold are within parentheses.

Fiscal year	Fishing boat	Fishing Boat (menthaden 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	3,408	3,402		2,527	46
1988	1,260 (55)	25	2,445	3,025 (5)		2,378 (3)	27

<sup>a</sup>License data are not additive across columns for any row since boats may have multiple licenses.



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